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Curriculum: ARCHITECTURE (CODE 9230)

Course Coordinator: Gausa Navarro Manuel

Department of Architecture and Design (Dipartimento di Architettura e Design - DAD)

Places: 6 - Grants: 6(*) (°)

(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00

(*) 1 grant funded within D.M. 351/2022 (Azione Dottorati per il patrimonio culturale), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is \in 16.500,00.

(*) 1 grant funded within D.M. 352/2022 (cofunded by Archea Associatisrl), under condition to the approval of Min is terial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 16.500,00.

(*) 1 grant funded within D.M. 352/2022 (cofunded by DVision Architecture srl), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is \in 16.500,00.

(*) 1 grant funded within D.M. 352/2022 (cofunded by Forma Edizioni srl), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 16.500,00.

Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	26.07.2022 - 9.30
	Online interview
Further information on	Every candidate is asked to present a research project proposal, which should be structured as
how to present	follows:
qualifications/publications	-research goals
	-research methods
	-innovation criteria with respect to the discipline's current scientific landscape
	-bibliography
	-research impact factor
	The research project proposal should contain max. 15.000 characters (excluding spaces), including the bibliography. The aforementioned project will then be evaluated by the
	Commission together with your qualifications and will be discussed during the oral exam. On the day of the exam, candidates can present a portfolio relating to their previous studies/research experience.
Exam Syllabus	Interview on the submitted research project, the PhD course topics, and the candidate's specific
	interests in the field.
	English language test.
Research Themes	The research topics stated below make up part of the overall evaluation and are related to the
	four components of the PhD course material:
	 Territorial Strategies Policies and Perspectives;
	 Theory of Design;
	 Strategies and technologies for sustainability and systemic design;
	 Visual languages and communication.
	 Metaverse, Innovation of digital art and digitalization of spaces and production of digital architecture (°)
Information on references	Letters of recommendation are not requested. Any letter of recommendation received shall not
	be taken into consideration.
Foreign Languages	English
Further Information	Dott.ssa Michela Mazzucchelli
	(+39)0102095810
	dottoratodad@unige.it
	http://www.addgenova.org/DSA/it
	https://architettura.unige.it/
(°) 1 grant added following th	

(°) 1 grant added following the agreement dated 8.05.2022

Curriculum: DESIGN (CODE 9231)

Course Coordinator: Gaus	a Navarro Manuel	
Department of Architecture	and Design (Dipartimento di Architettura e Design - DAD)	
Places:8(°) – Grants: 3 (*)		
	ersità degli Studi di Genova, the annual gross amount of the grant, in cluding social security	
	expenses to be paid by the recipient, is \in 16.500,00	
	M. 352/2022 (cofunded by HEARST ITALIA), under condition to the approval of Ministerial	
	nount of the grant, including social security expenses to be paid by the recipient, is \in 16.500,00.	
(°) 3 position for a graduate		
	mployees of Advanced Architecture of Catalonia (IAAC)	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	19.07.2022 - 9.00	
	Online interview	
Further information on	Every candidate is asked to present a research project proposal, which should be structured as	
how to present	follows:	
qualifications/publications	-research goals	
	-research methods	
	-innovation criteria with respect to the discipline's current scientific landscape	
	-bibliography-research impact factor	
	The research project proposal should contain max. 15.000 characters (excluding spaces),	
	including the bibliography. The aforementioned project will then be evaluated by the	
	Commission together with your qualifications and will be discussed during the oral exam. On	
	the day of the exam, candidates can present a portfolio relating to their previous studies/research	
	experience.	
Exam Syllabus	Interview on the submitted research project, the PhD course topics, and the candidate's specific	
	interests in the field.	
	English language test.	
Research Themes	The research topics stated below make up part of the overall evaluation and are related to the	
	four components of the PhD course material:	
	 Territorial Strategies Policies and Perspectives; 	
	• Theory of Design;	
	 Strategies and technologies for sustainability and systemic design 	
	Visual languages and communication	
Information on references	Letters of recommendation are not requested. Any letter of recommendation received shall not	
	be taken into consideration.	
Foreign Languages	English	
Further Information	Dott.ssa Michela Mazzucchelli	
	(+39)0102095810	
	dottoratodad@unige.it	
	http://www.addgenova.org/DSA/it	
	https://architettura.unige.it/	

Curriculum: ARCHITECTURE - CLOE Project (CODE 9232)

)1 position covered with Research Grant as per the amount foreseen within the European project H2020_MSCA_COF	Places: 1(°) – Grants: 0		
(°)1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and			
conservation" GA n. 101034449. For more details, see the Marie Skłodowska Curie COFUND project website at <u>https://cloe.dp.unige.it</u> .			
For the CLOE COFUND project, the position is reserved to early -stage researchers (ESRs): researchers must be in their first 4 years of research career at the date of the recruitment and not have been already awarded a PhD degree before. ESRs have			
so to satisfy the 'mobility rule': they must not have resided or carried out their main activity (work, study etc.) in Ital			
ore than 12 months in the three years prior to the date of recruitment. Compulsory national service, short stays su			
olidays and time spent under a procedure to obtain refugee status under the Geneva Convention are not taken into a co or the calculation.	count		
omparative assessment QUALIFICATIONS/PUBLICATIONS AND INTERVIEW			
ocedure			
terview The interview of admitted candidates will remotely take place (using Microsoft TE	AMS,		
SKYPE or other platform) on 25 July 2022, at 9.00 (CET).			
Further information will be provided via e-mail after 30 June 2022.			
urther information on The application must include the following documents (.pdf format):			
bw to present 1. A copy of a Valid Passport/ID;			
alifications/publications 2. A translation of the academic qualifications duly notarized by the Italian diplom			
consular office of the Country in which the qualifications were obtained and Declarat			
Value of the qualifications prepared by the Italian diplomatic-consular Representatives, to located in the Country where the qualifications were obtained. If the Italian diplom			
consular office does not provide the documentation in time for the application, appl			
should enclose all the documentation available (e.g. degree certificates, transcript of reco			
3. In case of qualifications issued by an EU contry, previous documents may be replaced			
Diploma Supplement delivered by the University which has issued the title, a c c ording the			
standards of the EU and UNESCO/CEPES;	.o the		
4. Master thesis extended abstract (max.10 pages);			
5. Curriculum Vitae;			
6. Letter of Motivation;			
7. A self-declaration (https://cloe.dp.unige.it/en/application_package_2022) to demonstra	te that		
they respect the MSCA mobility rule, the ESR definition, and the English language profic	iency		
(IELTS scores, TOEFL results, or proof of a degree awarded in English);	-		
8. Research project proposal (max. 10.000 charaters, including spaces, footnote	s and		
references);			
9. Ethics self-assessment - through the form available at the following	link:		
https://cloe.dp.unige.it/en/application_package_2022. 10. Up to three letters of reference;			
11. Publication(s)/Patent(s) (optional; max. 5) - Only the titles and publications relating	to the		
LAST 3 SOLAR YEARS prior to the calendar year of publication of the call (excludi			
degree diploma, which will be assessed even if previous) will be assessed and d	eemed		
congruent with the research topics of the PhD course			
From the CV and other documents enclosed the following data should result:			
a) University degree and the final note or qualification thereof;			
b) any other post-lauream degree (like, e.g., Master degrees);			
c) publications concerning one or more of the research topics of the present Curriculum, i	any;		
d) research experiences and research and educational activities, if any.			
Further information on the submission of the applications are available on the project well the following link http://cloa.dp.wniga.it	osite at		
the following link: <u>http://cloe.dp.unige.it</u> .	200		
xam Syllabus The comparative assessment will be based on an evaluation of the candidate's qualification of the candidate's qualifica			
admission to a PhD programme.	CU 101		
The measure president has to be written in Easily to show the second se	onice		
The research project has to be written in English and must concern one of the research to singled out in the box "Research topics".	opics		
The PhD research project must be organized according to the following points: - Objecti	ves: -		
Sources and state of the art; - Importance for the advancement of knowledge; - Pro			
methodology; - A developmental work plan.	1 • •		

	The PhD research project, including bibliography, must not exceed 30.000 characters, spaces
	included.
	The interview will be in English and will concern the presentation and discussion of the
	research project by the candidate and is aimed at verifying its aptitude for scientific research
	The evaluation will be based on the following criteria:
	- argumentative skills in the presentation of the research project;
	- knowledge of the state of the art and general preparation on themes and topics related to the
	project;
	- knowledge of English language
	Further information at the following link: <u>https://cloe.dp.unige.it</u> .
Research Themes	The candidate has to choose one of the two proposed themes for the preparation of the research
	project:
	- Theme 1. Neo-settlement in the Mediterranean uplands: towards the formation of new
	landscapes.
	- Theme 2. New inhabitants and communities in the Mediterranean uplands: demand for
	governance and spatial planning.
	For further information on research themes and on the project proposal structure is
	recommended to visit the project website at the following link: <u>https://cloe.dp.unige.it</u> .
Information on references	
	The letters must be written by Academics, or Experts, in the research topics of the Curriculum.
	They will send their letter of reference, within the deadline established in the Call, directly to
	the following addresses: <u>roberto.bobbio@unige.it</u> (with <u>cloe.dp@unige.it</u> in cc).
	In their application form, candidates must point out the name, the qualification, and the
	workplace of the persons that will write reference letters for them.
Foreign Languages	English
Further Information	Within the three years of the Program (and, preferably, during the second year) PhD students
Fur ther into mation	shall spend at least 6 months abroad, or at qualified international training centers in Italy, doing
	research on the topic of their Phd dissertation (possibly also non-consecutive, but in any case –
	for each fraction – of adequate consistency).
	Curriculum coordinator:
	Prof. Gausa Navarro Manuel
	mgausa@arch.unige.it
	CLOE COFUND Supervisor in the PhD curriculum: Prof. Roberto Bobbio
	(roberto.bobbio@unige.it)

Curriculum: ADVANCED AND HUMANOID ROBOTICS (CODE 9233)

Course Coordinator: Mass	sobrio Paolo
	eering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Robotica
e Ingegneria dei Sistemi – D	
Places: 20 – Grants: 20 (*)	
	e da Istituto Italiano di Tecnologia (IIT), the annual gross amount of the grant, in cluding social
	by the recipient, is € 16.500,00,00.
Comparative assessment	QUALIFICATIONS/PUBLICATIONS
procedure	
Further information on	Candidates must submit:
how to present	- the complete list of all the exams sat during their Bachelor's and Master's degree and/or
qualifications/publications	
	- the specific research themes candidates want to be evaluated on (see the list of research themes
	listed below and on the doctorate website: <u>http://phd.dibris.unige.it/biorob/index.php/how-to-</u>
	<u>apply</u>);
	- a project proposal related to one (or more) of the research themes offered (please use the
	template available at the website: <u>http://phd.dibris.unige.it/biorob/index.php/how-to-apply</u>);
	- a curriculum vitae et studiorum including all the technical scientific studies/activities already
	done and pertinent to the doctoral programme;
	- endorsement letters (maximum 3) from university professors or recognized experts in the field
	supporting the candidate. - the Candidate Summary Profile form available at
	- the Candidate Summary Profile form available at <u>http://phd.dibris.unige.it/biorob/index.php/how-to-apply</u> .
Research Themes	1.Deep Learning Systems for Disease Detection and Diagnosis in Medical Images
Research Thenks	2.Surgical Augmented Reality
	3.Pediatric Surgery Robot
	4.Mixed Reality and Machine Learning for Telerobotics
	5.Data processing using ML techniques for fall detection and prediction
	6.Bio-inspired design and smart control of a lower limb soft exoskeleton
	7.Planning and Control of a Hybrid Legged/Wheeled Robot Platform
	8. Agile and Modular Robot Co-Design Principles
	9.Intelligent End-effector Embodiment Principles
	10.Enduring and Efficient Robot Design and Control
	11.Efficient Robot Design and Actuation Principles
	12.Impedance Modulation Principles for Locomanipulation
	13.Semantics for Robot Locomanipulation
	14.Human-Robot Collaborative Control During High Payload Tasks 15.Wearable Interfaces for Teleoperation and Human Robot Interaction
	16.Skippy: A Highly Athletic Monopedal Robot
	17.Industrial exoskeleton for trunk and shoulders assistance of heavy working activities in the
	civil construction sector: development and assessment
	18.AI-based controller to enhance the capability and performances of industrial exos keletons to
	be suitable for the civil construction sector
	19.Quadruped Robot Control and Actions based on Visual Perception
	20. Combining Machine Learning and Model-based Knowledge for Quadruped Motion
	Generation
	21.Online Robot Plan and Action Refinement Under Uncertainty
	22.Human Aware Robot Navigation
	23.Software Architectures for Robot Long Term Autonomy
	24.Robot Perception for Human-Robot Collaborative Tasks
	25.Learning Tasks Models for Human-Robot Collaborative Tasks
	26.Neuromorphic Tactile Sensing and Perception
	27. Reconfigurable Robotic Systems for Manipulation of Deformable Materials
	28.Design and Development of Non-Rigid Lightweight Dexterous Robot Manipulator 29.Development Of Reconfigurable Multi-Finger Grippers For In-Hand Manipulation
	30.AI Optimized Grippers for Flexible Material Manipulation
	31.Development of pneumatic robot
	32.Development of Fully Autonomous Inspection and Maintenance Robot for infrastructures
	33.Development of High Speed Manipulator for Fast Pick & Place
	34. Advanced Human-Robot Interacton and Collaboraton (°)

	35. Integrating and adjusting different shared autonomy levels in the scope of human-robot collaboration (°)
	Deadeath an dataile an an
	For further details check:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	https://www.iit.it/phd
Information on references	Candidates must choose not less than one and not more than three referees to endorse their
	candidature. The referees must be university professors or recognized experts in the field, and must send the reference letters (specifying their name, role and affiliation), within the deadline
	of the public notice, to the Coordinator of the Doctoral Course at the following address:
	phd.biorob@dibris.unige.it.
Foreign Languages	English
8 8 8	6
Further Information	- The detailed description of the research themes can be found at the following links:
Further information	1 0
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	https://www.iit.it/phd
	- The template for the research project can be found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	- The candidate summary profile formcan be found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	For further information about the research themes please contact:
	Dr. Ferdinando Cannella (Advanced Robotics): Ferdinando.Cannella@iit.it
	Dr. Lorenzo Natale (Humanoid Robotics): Lorenzo.Natale@iit.it
(°) Information undated follow	ving communication of the course coordinator dated 7.06.2022

(°) Information updated following communication of the course coordinator dated 7.06.2022

Course: BIOINGEGNERIA E ROBOTICA – BIOENGINEERING AND ROBOTICS In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: BIOENGINEERING (CODE 9234)

Course Coordinator: Mass	sobrio Paolo
	eering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Robotica
e Ingegneria dei Sistemi – D	
Places: 7 – Grants: 7 (*)	
	ersità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the r	
	.M. 352/2022 (cofunded by Ente ospedaliero Ospedali Galliera), under condition to the approval
	annual gross amount of the grant, including social security expenses to be paid by the recipient, is
€ 16.500,00.	
(*) 1 grant funded by DIB	BRIS within ARBi project, the gross annual amount of the scholarship is € 16.500,00 including
social security contributions	s charged to the scholarship recipient.
(*) 1 grant funded within D	.M. 351/2022 (Azione Dottorati di ricerca PNRR), under condition to the approval of Minis terial
funding; the annual gross ar	mount of the grant, including social security expenses to be paid by the recipient, is \notin 16.500,00.
Comparative assessment	QUALIFICATIONS/PUBLICATIONS
procedure	
Further information on	Candidates must submit:
how to present	- the complete list of all the exams sat during their Bachelor's and Master's degree and/or
qualifications/publications	
	- the specific research themes candidates want to be evaluated on (see the list of research themes
	listed below and on the doctorate website: <u>http://phd.dibris.unige.it/biorob/in dex.php/how-to-</u>
	<u>apply</u>);
	- a project proposal related to one (or more) of the research themes offered (please use the
	template available at the website: <u>http://phd.dibris.unige.it/biorob/index.php/how-to-apply</u>);
	- a curriculum vitae et studiorum including all the technical scientific studies/activities already
	done and pertinent to the doctoral programme;
	- endorsement letters (maximum 3) from university professors or recognized experts in the field
	supporting the candidate.
	- the candidate summary profile form available at
Decemb Thomas	http://phd.dibris.unige.it/biorob/index.php/how-to-apply.
Research Themes	The following research themes are proposed:
	1.Sleep maturation in preterminfants 2.Translational neurosensory engineering
	3.Bi- directional body machine interface for assistance and rehabilitation
	4.Machine Learning-based electrophysiological biomarkers for neuroengineering applications
	5.In vitro 3D brain tissue model under microgravity
	6.Correlation of multimodal 18F-DOPA PET and conventional MRI with treatment response
	and survival in children with diffuse intrinsic pontine gliomas (DIPG)
	7. Assembling building blocks of the brain: use of neurospheroids to realize complex in vitro
	structures coupled to Multi-Electrode Arrays
	8. New tools to decode the mechanisms underlying corticomuscular coherence
	9. Advanced signal analysis, processing, and machine learning tools for computer-aided cardiac
	electrophysiology
	10.Exploring visual feedback perturbations for innovative neurorehabilitation based on virtual
	reality
	11.Novel tools for cognitive and motor rehabilitation for girls affected by Rett syndrome
	12.Symbiotic 3D brain tissue model with photosynthetic oxygenation
	13.Mechanobiology of cardiac muscle cells
	14.Design, development, and validation of simulators for medical and surgical training
	15.Neuromorphic circuits and systems for interaction intelligence
	16.Systems for assessment and rehabilitation of binocular sensorimotor disorders (research
	theme for grant funded by DIBRIS)
	17.Action-perception interplay in joint action
	18.Mobile applications for remote monitoring and contrasting cognitive decline (research theme
	for grant funded within D.M. 352/2022)
	19.Design and development of ultra-conformable multisite and multiparametric devices for
	neurophysiological in vitro application 20 A L based a surgery dylation for controlling a surger classificity (D M 251)
	20. AI-based neuromodulation for controlling neuronal activity (D.M. 351)
	21. Brain-on-a-chip: 3D neuronal networks from human-induced Pluripotent Stem Cells coupled to innovative microtransducer arrays (°)

	22. Optimization of neuromodulation by combining in-vivo recordings and synchronized brain
	oscillations (°)
	The detailed decription of the approach the map can be found at the fallowing links
	The detailed description of the research themes can be found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
Information on references	Candidates must choose not less than one and not more than three referees to endorse their
	candidature. The referees must be university professors or recognized experts in the field, and
	must send the reference letters (specifying their name, role and affiliation), within the deadline
	of the public notice, to the Coordinator of the Doctoral Course at the following address:
	phd.biorob@dibris.unige.it.
Foreign Languages	English
Further Information	- The detailed description of the research themes can be found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	- The template for the research project can be found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	- The candidate summary profile form can be found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	For further information about the research themes please contact:
	Prof. Paolo Massobrio
	paolo.massobrio@unige.it
	paolo.massoono@unge.u

(°) Information updated following request of the course coordinator dated 17.06.2022

Course: BIOINGEGNERIA E ROBOTICA – BIOENGINEERING AND ROBOTICS In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: BIONANOTECHNOLOGY (CODE 9235)

Course Coordinator: Massobrio Paolo	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria,	
Robotica e Ingegneria dei Sistemi – DIBRIS)	
Places: 7 – Grants: 7 (*)	
(*) 7 grants funded by Istitu	to Italiano di Tecnologia (IIT), the annual gross amount of the grant, including social security
expenses to be paid by the re	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS
procedure	
Further information on	Candidates must submit:
how to present	- the complete list of all the exams sat during their Bachelor's and Master's degree and/or
qualifications/publications	equivalents (BS, Master) specifying the average of marks or equivalent indicator.
	- the specific research themes candidates want to be evaluated on (see the list of research themes
	listed below and on the doctorate website: http://phd.dibris.unige.it/biorob/index.php/how-to-
	<u>apply</u>);
	- a project proposal related to one (or more) of the research themes offered (please use the
	template available at the website: <u>http://phd.dibris.unige.it/biorob/index.php/how-to-apply</u>);
	- a curriculum vitae et studiorum including all the technical scientific studies/activities a lready
	done and pertinent to the doctoral programme;
	- endorsement letters (maximum 3) from university professors or recognized experts in the field
	supporting the candidate.
	- the candidate summary profile form available at http://phd.dibris.unige.it/biorob/index.php/how-to-apply.
Research Themes	The following research themes are proposed:
Research Themes	1. Single-Molecule-Tracking and Imaging with Single-Photon Detector Array
	2.New Developments in Advanced Light Microscopy
	3.Innovative Sustainable Materials for Controlled Drug Delivery in Biomedical applications
	4. Green Nanomaterials for development of Conducting Inks, Circuits and Sensors for Flexible
	Electronics
	5. Biocomposite Materials from Agricultural Biomass for Multifunctional Food Packaging and
	Mulches
	6.Design, Characterization and Application of Functional nano-emulsions for Sustainable
	Materials
	7. RNA Aptamers for Biological Applications
	The detailed description of the research themes can be found at the following links:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply https://www.iit.it/phd
Information on references	
mormation on references	candidature. The referees must be university professors or recognized experts in the field, and
	must send the reference letters (specifying their name, role and affiliation), within the de adline
	of the public notice, to the Coordinator of the Doctoral Course at the following address:
	phd.biorob@dibris.unige.it
Foreign Languages	English
	C C C C C C C C C C C C C C C C C C C
Further Information	- The detailed description of the research themes can be found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply https://www.iit.it/phd
	- The template for the research project can be found at the following link: http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	- The candidate summary profile form can be found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	https://photolofishullgo.ic/olofoo/ilico.cpil//low-to-uppiy
	For further information about the research themes please contact:
	Dr. Giuseppe Vicidomini (IIT)
	giuseppe.vicidomini@iit.it

Course: BIOINGEGNERIA E ROBOTICA – BIOENGINEERING AND ROBOTICS In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: COGNITIVE ROBOTICS, INTERACTION AND REHABILITATION TECHNOLOGIES (CODE 9236)

Course Coordinator: Mass	obrio Paolo
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria,	
Robotica e Ingegneria dei Sistemi – DIBRIS)	
Places: 8(°) – Grants: 8 (*	
	Italiano di Tecnologia (IIT), the annual gross amount of the grant, including social security
expenses to be paid by the r	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS
procedure	
Further information on	Candidates must submit:
how to present	- the complete list of all the exams sat during their Bachelor's and Master's degree and/or
qualifications/publications	equivalents (BS, Master) specifying the average of marks or equivalent indicator.
4 F	- the specific research themes candidates want to be evaluated on (see the list of research
	themes listed below and on the doctorate website:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply);
	- a project proposal related to one (or more) of the research themes offered (please use the
	template available at the website: <u>http://phd.dibris.unige.it/biorob/index.php/how-to-apply</u>);
	- a curriculum vitae et studiorum including all the technical scientific studies/activities alre ad y
	done and pertinent to the doctoral programme;
	- endorsement letters (maximum 3) from university professors or recognized experts in the
	field supporting the candidate.
	- the Candidate Summary Profile form available at
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply.
Research Themes	The following research themes are proposed:
	1. Cognition for improved safety and ergonomy in human-robot interaction in unstructured
	workspaces
	2. Cognitive-inspired models for motion understanding for human-robot interaction
	3. Trust and Shared Perception in cognitive robotics
	4.A daptation in Cognitive Architectures for Human Robot Interaction
	5. Cortical mechanisms of spatial representation in children with and without visual impairment
	6.Fom science to technology for visually impaired children
	7. From science to technology for mental diseases
	8.Interindividual differences modeling
	9.iREACH: a new multisensory device for blind infants
	The detailed description of the research themes can be found at the following links:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	https://www.iit.it/phd
Information on references	Candidates must choose not less than one and not more than three referees to endorse their
	candidature. The referees must be university professors or recognized experts in the field, and
	must send the reference letters (specifying their name, role and affiliation), within the deadline
	of the public notice, to the Coordinator of the Doctoral Course at the following address:
	phd.biorob@dibris.unige.it.
Foreign Languages	English
Further Information	- The detailed description of the research themes can be found at the following link:
- ar area mitor mattori	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	https://www.iit.it/phd
	- The template for the research project can be found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	- The candidate summary profile form can be found at the following link:
	http://phd.dibris.unige.it/biorob/index.php/how-to-apply
	For further information about the research themes please contact:
	Dr. Alessandra Sciutti (IIT)
	<u>alessandra.sciutti@iit.it</u>

Course: BIOINGEGNERIA E ROBOTICA – BIOENGINEERING AND ROBOTICS In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: ROBOTICS AND AUTONOMOUS SYSTEMS (CODE 9237)

(*) 2 grants funded by Università degli Studi di Genova , the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00 ,00. Comparative assessment procedure QUALIFICATIONS/PUBLICATIONS Further information on how to present quivalents (BS, Master) specifying the average of marks or equivalent indicator. - the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average of marks or equivalent indicator. - the specific research themes candidates want to be evaluated on (see the list of research themes listed below and on the doctorate website: http://phd.dibris.unige.it/biorob/index.php/how-to-apply); - a project proposal related to one (or more) of the research themes offered (please use the template available at the website: http://phd.dibris.unige.it/biorob/index.php/how-to-apply); - a curriculum vitae et studiorumincluding all the technical scientific studies/activities alread y done and pertinent to the doctoral programme; - endorsement letters (maximum 3) from university professors or recognized experts in the field supporting the candidate. - the candidate summary profile form available at http://phd.dibris.unige.it/biorob/index.php/how-to-apply . Research Themes The following research themes are proposed: 1. Robot sensing and perception of the environment and humans using proximity	Course Coordinator: Mass	obrio Paolo
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Places:2(?) - Grants: 2(*) (*) 2 grants funded by Università degli Studi di Cenova, the annual gross amount of the grant, including social security expenses to be paid by the receipient, is £ 16.500,00,00. Comparative assessment grocedure QUALIFICATIONS/PUBLICATIONS Further information on how to present gualifications/publications Candidates must submit: the complete list of all the exams sat during their Bachelor's and Master's degree and/or gualifications/publications the opplete list of all the exams sat during their Bachelor's and Master's degree and/or aguivalent (SK, Master) specifying the average of marks orequivalent (SK) and the example:		
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 4. Multimodal Sensing for Robot Self-aware Control 5. Boosting autonomy of Quadrupeds for Planning and Executing Complex Tasks in Hazardous Environments 6. Teams of Autonomous Aerial Vehicles for continuous Monitoring and Inspection 7. MRHAIDE: Modelling with Robots and Heterogenous Artificial Intelligence the Dynamics of Evil 8. Empathic and Trustable Companion Robots for Social and Physical Assistance 9. Immers ive Human-to-Human Motion Transfer Through Wearable Haptic Devices 10. Synthetic Personalities for Social Robots 11. Obstacle detection, tracking and avoidance in maritime environments 12. Advanced underwater robotic operations: cooperative control of an autonomous surface vehicle and a tethered remotely operated vehicle 13. Control and planning architectures for human robot collaborative tasks 14. Outlier robust state estimation methods for the navigation of marine robotic systems 15. Metodi di stima dello stato robusti a dati spuri per la navigazione di robot marini 16. Advanced robot manipulation skills acquired via human demonstrations 17. Robot cognitive architectures based on quantum computing 18. Speech-capable Augmented Reality avatars to assist humans in daily activities 19. Augmented Reality approaches in robot-assisted surgery 20. Machine learning methods for active identification 		
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 Speech-capable Augmented Reality avatars to assist humans in daily activities Augmented Reality approaches in robot-assisted surgery Machine learning methods for active identification 		
 Augmented Reality approaches in robot-assisted surgery Machine learning methods for active identification 		
20. Machine learning methods for active identification		
The detailed description of the research themes can be		
		The detailed description of the research themes can be
found at the following link: <u>http://phd.dibris.unige.it/biorob/index.php/how-to-apply</u>		
	Information on references	Candidates must choose not less than one and not more than three referees to endorse their
		candidature. The referees must be university professors or recognized experts in the field, and
must send the reference letters (specifying their name, role and affiliation), within the deadline of		must send the reference letters (specifying their name, role and affiliation), within the deadline of
		the public notice, to the Coordinator of the Doctoral Course at the following address:
phd.biorob@dibris.unige.it.		phd.biorob@dibris.unige.it.

Foreign Languages	English
Further Information	 The detailed description of the research themes can be found at the following link: <u>http://phd.dibris.unige.it/biorob/index.php/how-to-apply</u> The template for the research project can be found at the following link: <u>http://phd.dibris.unige.it/biorob/index.php/how-to-apply</u> The candidate summary profile form can be found at the following link: <u>http://phd.dibris.unige.it/biorob/index.php/how-to-apply</u> The candidate summary profile form can be found at the following link: <u>http://phd.dibris.unige.it/biorob/index.php/how-to-apply</u>
	For further information about the research themes please contact: Prof. Giorgio Cannata giorgio.cannata@unige.it

Curriculum: BIOIMAGING (CODE 9238)

Course Coordinator: Mala	Course Coordinator: Malatesta Paolo	
Department of Experimenta	Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 4 – Grants: 4 (*)		
(*) 1 grant funded by Univ	versità degli Studi di Genova, the annual gross amount of the grant, including social security	
expenses to be paid by the r	ecipient, is € 16.500,00;	
(*) 3 grants funded within D	0.M. 352/2022 (cofunded by ESAOTE), under condition to the approval of Ministerial funding;	
the annual gross amount of t	he grant, including social security expenses to be paid by the recipient, is €16.500,00.	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	26th July 2022 - h. 14.00 - in presence at the Classroom 1 of Polo Alberti (Via L.B. Alberti, n.4 -	
	Genova), alternatively, if unable for justified reasons to participate in the presence, the interview	
	can be carried out via skype, by sending a request by e-mail to the Secretariat	
	enrico.zeraschi@unige.it	
	The ranking of the evaluation of qualifications, with the indication of admission or non-	
	admission to the interview, will be sent to all candidates by e-mail, by h. 13.00 of 26th July	
	2022.	
Further information on	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12)	
how to present	together with the qualifications. The project will be evaluated by the commission together with	
qualifications/publications		
Exam Syllabus	Interview on the titles and on the research project presented.	
Research Themes	Molecular Bioimaging;	
	Biomedical imaging;	
	Computational bioimaging.	
Information on references	Candidates must choose not less than one and not more than three referees to support the	
	application. These contacts must be university professors or experts in the subject. The referents	
	will be responsible for sending the reference letters, within the deadline of the notice, to the	
	Coordinator of the doctoral course at the following address: paolo.malatesta@unige.it	
	In the application for admission, candidates must indicate: the name, qualification and place of	
	employment of the chosen contact persons.	
Foreign Languages	English	
Further Information		
ruruler information	Coordinator: Prof. Paolo Malatesta - Department of Experimental Medicine - Tel. 0105558403 - paolo.malatesta@unige.it	
	paolo.malatesta@ullige.it	
	Curriculum contact nerson (to whom to request scientific information): Bush Ciannaria	
	Curriculum contact person (to whom to request scientific information): Prof. Gianmario Sambuceti - Department of Health Sciences - Tel. 0105552026 - <u>gianmario.sambuceti@unige.it</u>	
	Sambucen - Department of ricatul Sciences - 1el. 0105552020 - giannano.sambucen@umge.it	
	Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Depart ment of	
	Experimental Medicine - Tel. 0105558266 - <u>enrico.zeraschi@unige.it</u>	
L	Experimental Medicine - 1ei, 0105556200 - <u>enneo,zerasente ungen</u>	

Course Coordinator: Malatesta Paolo Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES) Places: 1-Grants: 1 (*) (*) 1 grant funded by MUR/DIMES, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is \in 16.500,00. **Comparative** assessment **OUALIFICATIONS/PUBLICATIONS AND INTERVIEW** procedure Interview 26th July 2022 - h. 14.00 - in presence at the Classroom 1 of Polo Alberti (Via L.B. Alberti, n.4 -Genova), alternatively, if unable for justified reasons to participate in the presence, the interview can be carried out via skype, by sending a request by e-mail to the Secretariat enrico.zeraschi@unige.it The ranking of the evaluation of qualifications, with the indication of admission or nonadmission to the interview, will be sent to all candidates by e-mail, by h. 13.00 of 26th July 2022. Further information on A tutti i candidati viene richiesto di presentare una proposta di progetto di ricerca (max 2 fogli A4 dimensione carattere 12) insieme ai titoli. Il progetto sarà valutato da parte della how to present qualifications/publications commissione insieme ai titoli ed oggetto di discussione durante il Interview orale. Interview on the titles and on the research project presented. Exam Syllabus **Research Themes** Innovative diagnostics; Therapeutic treatments; New pharmaceutical products; Gene therapy; Cell therapies; Immunosuppressive therapies: Anticancer therapies. Information on references Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: paolo.malatesta@unige.it In the application for admission, candidates must indicate: the name, gualification and place of employment of the chosen contact persons. Foreign Languages English **Further Information** Coordinator: Prof. Paolo Malatesta - Department of Experimental Medicine - Tel. 0105558403 paolo.malatesta@unige.it Curriculum contact person (to whom to request scientific information): Prof. Aldo Pagano Department of Experimental Medicine - Tel. 0105558213 - aldo.pagano@unige.it Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Depart ment of Experimental Medicine - Tel. 0105558266 - enrico.zeraschi@unige.it

Curriculum: CELLULAR AND MOLECULAR BIOTECHNOLOGIES (CODE 9239)

Curriculum: TRANSLATIONAL SURGERY (CODE 9240)

Course Coordinator: Malatesta Paolo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 1 – Grants: 1 (*)	
(*) 1 grant funded by Univ	versità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the r	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	26th July 2022 - h. 14.00 - in presence at the Classroom 1 of Polo Alberti (Via L.B. Alberti, n.4 - Genova), alternatively, if unable for justified reasons to participate in the presence, the interview can be carried out via skype, by sending a request by e-mail to the Secretariat <u>enrico.zeraschi@unige.it</u> The ranking of the evaluation of qualifications, with the indication of admission or non-admission to the interview, will be sent to all candidates by e-mail, by h. 13.00 of 26th July 2022.
Further information on	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12)
how to present	together with the qualifications. The project will be evaluated by the commission together with
qualifications/publications	the qualifications and discussed during the oral interview.
Exam Syllabus	Interview on the titles and on the research project presented.
Research Themes	Experimental diagnostic and therapeutic approaches in general, specialist, anesthesiology and integrated diagnostic methodologies.
Information on references	Candidates must choose not less than one and not more than three referees to support the application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the Coordinator of the doctoral course at the following address: <u>paolo.malatesta@unige.it</u> In the application for admission, candidates must indicate: the name, qualification and place of employment of the chosen contact persons.
Foreign Languages	English
Further Information	Coordinator: Prof. Paolo Malatesta - Department of Experimental Medicine - Tel. 0105558403 - paolo.malatesta@unige.it Curriculum contact person (to whom to request scientific information): Prof. Marco Frascio - Department of Surgical Sciences and Integrated Diagnostics - Tel. 0103537217 - mfrascio@unige.it Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of
	Experimental Medicine - Tel. 0105558266 - <u>enrico.zeraschi@unige.it</u>

Curriculum: REGENERATIVE MEDICINE AND TISSUE ENGINEERING (CODE 9241)

Course Coordinator: Mala	testa Paolo
	l Medicine (Dipartimento di Medicina Sperimentale – DIMES)
Places: 1 – Grants: 1 (*)	
	versità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the r	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	26th July 2022 - h. 14.00 - in presence at the Classroom 1 of Polo Alberti (Via L.B. Alberti, n.4 -
	Genova), alternatively, if unable for justified reasons to participate in the presence, the interview
	can be carried out via skype, by sending a request by e-mail to the Secretariat
	enrico.zeraschi@unige.it
	The ranking of the evaluation of qualifications, with the indication of admission or non-
	admission to the interview, will be sent to all candidates by e-mail, by h. 13.00 of 26th July
	2022.
Further information on	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12)
how to present	together with the qualifications. The project will be evaluated by the commission together with
qualifications/publications	the qualifications and discussed during the oral interview.
Exam Syllabus	Interview on the titles and on the research project presented.
Research Themes	Delivery di fattori di crescita, citochine e altre molecole farmacologicamente attive
	Immunologia e biologia dei trapianti;
	Cell therapy;
	Tissue engineering;
	Development of biocompatible, biodegradable and capable of integrating molecules and cells
	biomaterials;
	Delivery of growth factors, cytokines and other pharmacologically active molecules
	Immunology and transplant biology;
	Immunotherapy;
Information on references	Gene therapy.
mormation on references	11
	application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the notice, to the
	Coordinator of the doctoral course at the following address: <u>paolo.malatesta@unige.it</u>
	In the application for admission, candidates must indicate: the name, qualification and place of
	employment of the chosen contact persons.
Foreign Languages	English
i of orgin Lungungen	
Further Information	Coordinator: Prof. Paolo Malatesta - Department of Experimental Medicine - Tel. 0105558403 -
	<u>paolo.malatesta@unige.it</u>
	Curriculum contact person (to whom to request scientific information): Prof. Paolo Giannoni -
	Department of Experimental Medicine - Tel. 0105558436 - <u>paolo.giannoni@unige.it</u>
	Organizing Secondariat (to request to chaice line formation). Mr. Enviro Zamathi, D
	Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Department of Experimental Medicine - Tel. 0105558266 - enrico.zeraschi@unige.it
	Experimental Medicine - 1et. 0105558200 - <u>ennco.zerascni@unige.it</u>

Curriculum: TRANSLATIONAL AND PRECISION MEDICINE (CODE 9242)

	Course Coordinator: Malatesta Paolo	
Department of Experimenta	l Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 3 – Grants: 3(*)		
(*) 1 grant funded by Univ	(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security	
expenses to be paid by the r	ecipient, is € 16.500,00;	
(*) 2 grants funded by Ospe	dale Policlinico San Martino, the annual gross amount of the grant, including social security	
expenses to be paid by the r		
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	26th July 2022 - h. 14.00 - in presence at the Classroom 1 of Polo Alberti (Via L.B. Alberti, n.4 -	
	Genova), alternatively, if unable for justified reasons to participate in the presence, the interview	
	can be carried out via skype, by sending a request by e-mail to the Secretariat	
	enrico.zeraschi@unige.it	
	The ranking of the evaluation of qualifications, with the indication of admission or non-	
	admission to the interview, will be sent to all candidates by e-mail, by h. 13.00 of 26th July	
	2022.	
Further information on	All candidates are asked to submit a research project proposal (max 2 A4 sheets, font size 12)	
how to present	together with the qualifications. The project will be evaluated by the commission together with	
qualifications/publications	the qualifications and discussed during the oral interview.	
Exam Syllabus	Interview on the titles and on the research project presented.	
Research Themes	Diseases related to eye aging;	
	Chronic degenerative pathologies;	
	Cancer biology and innovative therapeutic approaches;	
	Biological effects of the secretoma.	
Information on references	11	
	application. These contacts must be university professors or experts in the subject. The referents	
	will be responsible for sending the reference letters, within the deadline of the notice, to the	
	Coordinator of the doctoral course at the following address: paolo.malatesta@unige.it	
	In the application for admission, candidates must indicate: the name, qualification and place of	
	employment of the chosen contact persons.	
Foreign Languages	English	
Further Information	Coordinator Braf Daala Malatasta, Dan artmant of Err arimantal Madiaina, Tal 0105550402	
Further Information	Coordinator: Prof. Paolo Malatesta - Department of Experimental Medicine - Tel. 0105558403 -	
	paolo.malatesta@unige.it	
	Curriculum contact person (to whom to request scientific information). Prof. Sugar Dollini	
	Curriculum contact person (to whom to request scientific information): Prof. Sveva Bollini - Department of Experimental Medicine - Tel. 0105558394 – <u>sveva.bollini@unige.it</u>	
	Department of Experimental Medicine - Tel. 0105558594 – <u>sveva.domm@unige.tt</u>	
	Organizing Secretariat (to request technical information): Mr. Enrico Zeraschi - Depart ment of	
	Experimental Medicine - Tel. 0105558266 - <u>enrico.zeraschi@unige.it</u>	
	Experimental Medicine - rel. 0105556200 - <u>enneo.zeraschi@unige.it</u>	

Curriculum: FLUID DYNAMICS AND ENVIRONMENTAL ENGINEERING (CODE 9244)

Course Coordinator: Massabò Roberta		
DIČCA)	Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria Civile, Chimica e Ambientale – DICCA)	
Places: $4 - \text{Grants:} 4(*)(^{\circ})$		
	ersità degli Studi di Genova; the annual gross amount of the grant, including social security	
expenses to be paid by the re-		
	CCA (research theme: Physics informed algorithms for sensing and navigating turbulent	
environments); the annual gr 16.500,00.	ross amount of the grant, including social security expenses to be paid by the recipient, is \in	
(*) 1 grant funded within D.	M. 352/2022 (cofunded by GeoDataLab S.r.l.s, research theme: Industrial application - driven	
research towards the Digital	European Sky), under condition to the approval of Ministerial funding; the annual gross amount	
of the grant, including social	1 security expenses to be paid by the recipient, is \notin 16.500,00. ^(°)	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	July 27th 2022, 9:00 am, room A7 Polytechnic School, UNIGE, Via Montallegro 1, 16145	
	Genoa. Should there be a high number of candidates, the interviews will continue on the	
	following day.	
	The interview may also take place electronically, on candidates' request or if necessary due to the health situation. Candidates requesting online interview must contact the doctoral secretarial staff (dottorato.dicca@unige.it) and Prof. Rodolfo Repetto (rodolfo.repetto@unige.it) at least 15	
	days before the evaluation.	
	Candidates must have a reliable Internet connection to allow for the test to be carried out.	
Further information on	The application (curriculum vitae) must contain Transcripts of Records, stating the courses	
how to present	attended and marks obtained throughout the candidate's university career (Bachelor and $M.Sc.$	
qualifications/publications	degrees; Laurea Triennale and Magistrale degrees). The transcripts of Records must be official documents released by the universities which awarded the degrees. Undergraduate candidates at	
	the deadline of the public notice may submit further documentation, which they deem	
	appropriate, in order to document their university career.	
	The knowledge of foreign languages certified by an international certificate (TOEFL, CPE,	
	CAE, FCE, etc.) attached to the cv would be an asset.	
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project,	
	Curriculum Vitae et Studiorum and qualifications/publications. The interview is also a imed at	
	verifying that the candidate has adequate knowledge to deal with studies in the chosen	
	curriculum.	
Research Themes	The research themes are those of the curriculum in "Fluid Dynamics and Environmental	
	Engineering"; they are described in details on the course web page:	
	http://dottorato.dicca.unige.it/eng/fluamb/. The research project (10 pages max) must be	
	prepared on one of the Project Thematics listed in:	
	http://dottorato.dicca.unige.it/documents/PhD_projects.pdf or in	
	http://dottorato.dicca.unige.it/documents/PhD industrial projects.pdf	
	for projects with industry, under the general Thematic "Fluid Dynamics and Environmental	
	Engineering". The ansist start of the principal start of the principal start of the Desist in the list of starts	
	The project must be prepared under the guidance of the referent of the Project in the list above.	
	The project must include the title of the Project (from the list above), the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the	
	objectives of the research activity. Projects that are not submitted as requested might be	
	penalized in the evaluation process. One of the fellowships is on the thematic "Physics informed	
	algorithms for sensing and navigating turbulent environments" (Prof. A. Seminara, funding	
	NIH)	
Information on references	Candidates must choose at least one and no more than three referees to support their candidature.	
	One of the referees must be the member of the curriculum committee	
	(http://dottorato.dicca.unige.it/eng/info/staff/comitatofluamb.html) with whom the research	
	project has been agreed. The referees must be university professors or experts in the subject. The	
	reference letter must be sent by the referee, within the deadline of the public notice and using	
	their institutional e-mail address, to the doctoral secretariat at <u>dottorato.dicca@unige.it</u> .	
	If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list	
	of publications. The name, status and current position of the referees chosen by the candidate	
	must be stated in the application. Reference letters that are not presented as requested will not be	
	taken into consideration.	

Foreign Languages	English
Further Information	http://dottorato.dicca.unige.it/eng/
	Prof. Rodolfo Repetto
	rodolfo.repetto@unige.it
(°) 1 grant added following t	he agreement dated 18.6.2022

(°) 1 grant added following the agreement dated 18.6.2022

Curriculum: CHEMICAL, MATERIALS AND PROCESS ENGINEERING (CODE 9243)

Course Coordinator: Massabò Roberta		
	cal and Environmental Engineering (Dipartimento di Ingegneria Civile, Chimica e Ambienta le –	
DICCA)		
Places: 4(°) – Grants: 3 (*		
	versità degli Studi di Genova, the annual gross amount of the grant, including social security	
expenses to be paid by the r		
	A, the annual gross amount of the grant, including social security expenses to be paid by the	
recipient, is € 16.500,00		
	M. 352/2022 (cofunded by Nuovo Pignone - Baker Hughes, research theme: Development of	
	thic reactors for CO2 capture and conversion processes), under condition to the approval of	
16.500,00.	ual gross amount of the grant, including social security expenses to be paid by the recipient, is \in	
(°) 1 position reserved to en	mlovee of Smiledges rl	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure	QUALITER HONS/TODLICA HONS AND INTERVIEW	
Interview	July 27th 2022, 9:00 am, room A7 Polytechnic School, UNIGE, Via Montallegro 1, 16145	
	Genoa. Should there be a high number of candidates, the interviews will continue on the	
	following day.	
	The interview may also take place electronically, on candidates' request or if necessary due to	
	the health situation. Candidates requesting online interview must contact the doctoral secretarial	
	staff (dottorato.dicca@unige.it) and Prof. Attilio Converti (converti@unige.it) at least 15 days	
	before the evaluation.	
	Candidates must have a reliable Internet connection to allow for the test to be carried out.	
Further information on	The application (curriculum vitae) must contain Transcripts of Records, stating the courses	
how to present	attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc.	
qualifications/publications	degrees; Laurea Triennale and Magistrale degrees). The transcripts of Records must be official	
	documents released by the universities which awarded the degrees. Undergraduate candidates at	
	the deadline of the public notice may submit further documentation, which they deem	
	appropriate, in order to document their university career.	
	The knowledge of foreign languages certified by an international certificate (TOEFL, CPE, CAE, ECE, at a) attached to the average data the average of the set of the	
Exam Syllabus	CAE, FCE, etc.) attached to the cv would be an asset. The interview will be a detailed scientific discussion on the candidate's research project,	
Exam Synabus	Curriculum Vitae et Studiorum and qualifications/publications. The interview is als o aimed at	
	verifying that the candidate has adequate knowledge to deal with studies in the chosen	
	curriculum.	
Research Themes	The research themes are those of the curriculum in "Chemical, Materials and Process	
	Engineering"; they are described in details on the course web page:	
	http://dottorato.dicca.unige.it/eng/chmatpr/. The research project (10 pages max) must be	
	prepared on one of the Project Thematics listed in	
	http://dottorato.dicca.unige.it/documents/PhD projects.pdf or in	
	http://dottorato.dicca.unige.it/documents/PhD industrial projects.pdf	
	for projects with industry, under the general Thematic "Chemical, Materials and Process	
	Engineering". The project must be prepared under the guidance of the referent of the Project in	
	the list above. The project must include the title of the Project (from the list above), the	
	candidate's research interests and motivations, a short abstract, the State of the Art and relevant references, and the objectives of the research activity. Projects that are not submitted as	
	requested might be penalized in the evaluation process.	
Information on references	Candidates must choose at least one and no more than three referees to support their candidature.	
intormation on references	One of the referees must be the member of the curriculum committee	
	(http://dottorato.dicca.unige.it/eng/info/staff/comitatochmatpr.html) with whom the research	
	project has been agreed. The referees must be university professors or experts in the subject. The	
	reference letter must be sent by the referee, within the deadline of the public notice and using	
	their institutional e-mail address, to the doctoral secretariat at dottorato.dicca@unige.it.	
	If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list	
	of publications. The name, status and current position of the referees chosen by the candidate	
	must be stated in the application. Reference letters that are not presented as requested will not be	
	taken into consideration.	
Foreign Languages	English	
Further Information	http://dottorato.dicca.unige.it/eng/	
	Prof. Attilio Converti	
	<u>converti@unige.it</u>	

Course: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING

Curriculum: STRUCTURAL AND GEOTECHNICAL ENGINEERING, MECHANICS AND MATERIALS (CODE 9245)

Course Coordinator: Massabò Roberta	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria Civile, Chimica e Ambientale – DICCA)	
Places: $4 - \text{Grants:} 4(*)$	
	ersità degli Studi di Genova, the annual gross amount of the grant, including social security
	M. 351/2022 (Azione Dottorati di ricerca PNRR), under condition to the approval of Ministerial
	nount of the grant, including social security expenses to be paid by the recipient, is \notin 16.500,00.
	M. 352/2022 (cofunded by Envirosoil (Remediation) Ltd, research theme: "Devising novel bio-
	roblematic soils: application to infrastructure earthworks"), under condition to the approval of
	ual gross amount of the grant, including social security expenses to be paid by the recipient, is \in
16.500,00. <mark>(°)</mark>	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	L-1- 274 2022 0.00 4.7 D-1-4-1 C-1
Interview	July 27th 2022, 9:00 am, room A7 Polytechnic School, UNIGE, Via Montallegro 1, 16145
	Genoa. Should there be a high number of candidates, the interviews will continue on the following day.
	The interview may also take place electronically, on candidates' requestor if necessary due to
	the health situation. Candidates requesting online interview must contact the doctoral secretarial
	staff (<u>dottorato.dicca@unige.it</u>) and Prof. Maria Pia Repetto (<u>repetto@dicca.unige.it</u>) at least 15
	days before the evaluation.
	Candidates must have a reliable Internet connection to allow for the test to be carried out.
Further information on	The application (curriculum vitae) must contain Transcripts of Records, stating the courses
how to present	attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc.
qualifications/publications	
	documents released by the universities which awarded the degrees. Undergraduate candidates at
	the deadline of the public notice may submit further documentation, which they deem
	appropriate, in order to document their university career.
	The knowledge of foreign languages certified by an international certificate (TOEFL, CPE,
Errore Callabara	CAE, FCE, etc.) attached to the cv would be an asset.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project, Curriculum Vitae et Studiorum and qualifications/publications. The interview is also a imed at
	verifying that the candidate has adequate knowledge to deal with studies in the chosen
	curriculum.
Research Themes	The research themes are those of the curriculum in "Structural and Geotechnical Engineering,
	Mechanics and Materials"; they are described in details on the course web page:
	http://dottorato.dicca.unige.it/eng/stmatgeo/.
	The research project (10 pages max) must be prepared on one of the Project Thematics listed in
	http://dottorato.dicca.unige.it/documents/PhD projects.pdf or in
	http://dottorato.dicca.unige.it/documents/PhD industrial projects.pdf
	for projects with industry, under the general Thematic "Structural and Geotechnical
	Engineering, Mechanics and Materials". The project must be prepared under the guidance of the
	referent of the Project in the list above. The project must include the title of the Project (from the list above), the candidate's research interests and motivations, a short abstract, the State of the
	Art and relevant references and the objectives of the research activity. Projects that are not
	submitted as requested might be penalized in the evaluation process.
Information on references	Candidates must choose at least one and no more than three referees to support their candidature.
	One of the referees must be the member of the curriculum committee
	$(\underline{http://dottorato.dicca.unige.it/eng/info/staff/comitatostmatgeo.html}) with whom the research the the transformation of the tra$
	project has been agreed. The referees must be university professors or experts in the subject. The
	reference letter must be sent by the referee, within the deadline of the public notice, to the
	doctoral secretariat at <u>dottorato.dicca@unige.it</u> .
	If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list
	of publications. The name, status and current position of the referees chosen by the candidate
	must be stated in the application. Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English
roreign Languages	

Further Information	http://dottorato.dicca.unige.it/eng/
	Prof. Maria Pia Repetto
	repetto@dicca.unige.it

(°) 1 grant added following the agreement dated 30.5.2022 and decree of the Director of DICCA dated 15.06.2022

Course: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION

In agreement with Università degli Studi di Torino - University of Turin

Curriculum: ARTS, PERFORMING ARTS AND MULTIMEDIA TECHNOLOGIES (CODE 9247)

Course Coordinator: Bricc	o Flisa
	guages and Cultures (Dipartimento di Lingue e culture moderne – DLCM)
Places: 2– Grants: 2 (*)	guages and Cultures (Dipartification and angue e culture moderne – Dicent)
	arrità dagli Studi di Conque the ennuel gross arrount of the grant in alu ding a social a sourity
(*) 2 grants funded by Univ	ersità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the r	
-	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	22.07.2022 - time 10.00 - At the Department of Modern Languages and di Cultures of the
	University of Genoa, Genoa.
	The room will be communicated through the PhD website and the communication will be sent to
	all students admitted to the interview.
	The interview at the request of the candidate, can also take place "online".
Further information on	Together with their qualifications, applicants must enclose a research project on a topic related
how to present	to Digital Humanities and consistent with the themes and objectives specified in the 'Research
qualifications/publications	Topics' section.
	•
	The project should be structured in the following sections:
	-title;
	-summary;
	-objectives of the research project;
	-analysis of existing literature on the research topic;
	-research problems that you want to face and to which you want to give an answer;
	-methodologies that you plan to use to achieve the objectives;
	-expected results at the end of the three-year research period.
	-expected results at the end of the three-year research period.
	The music struil he evel hated according to
	The project will be evaluated according to
	•clarity of objectives, hypotheses and methodological approach of the research;
	•originality and innovativeness of the proposal with respect to the reference literature;
	•clear feasibility of the timing of the work phases;
	•a solid bibliographical basis.
	The candidate should also indicate potential foreign partner research centres/places to carry out
	the research.
	The project must be no longer than 4000 words plus references.
	In case of admission to the Ph.D. program, the candidate will normally carry out his/her activity
	within the general Research Theme for which he/she has submitted the project (section
	"Research Themes") but not necessarily on the specific activities described and planned in the
	submitted research project, which has the main purpose of demonstrating the candidate's
	aptitude for research.
Research Themes	1- Between reality and virtuality, event and archive, resources and problems of digital
	technologies, new forms of interactivity and multimedia in relation to artistic and s pectacular
	performance.
	2 - Use of virtual and augmented reality; narrative and immersive content and tools for
	architectural and exhibition environments and social platforms; teaching and learning paths in
	relation to the creation, archiving and dissemination of visual arts.
Information on references	
intor mation on releasened	application. These referees must be university lecturers or experts in the field.
	In the application form, candidates must indicate the name, position and place of employment of
	their chosen referees.
	It will be the responsibility of the referees supporting the application to send the letters of
	reference by the deadline of the call to the PhD coordinator: <u>elisa.bricco@unige.it</u> , and for
	information to: roberto.cuppone@unige.it and silvia.orsino@unige.it.
Foreign Languages	Applicants must demonstrate knowledge of at least one foreign language chosen between
	English and French.
Further Information	The administrative contact person for the PhD is dr. Silvia Orsino: <u>silvia.orsino@unige.it</u> .

Course: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION

In agreement with Università degli Studi di Torino - University of Turin

Curriculum: FOREIGN LANGUAGES, CULTURES AND DIGITAL TECHNOLOGIES (CODE 9248)

Department of Moderm Languages and Cultures (Dipartimento di Lingue e culture moderne – DLCM) Places: 3 - Grants: 3 (*) C ************************************	Course Coordinator: Bricco	o Elisa
Pincesi 3 - Grants: 3 (*) (*) (*) 2 grants funded by Università degli Studi di Torino, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 17.500,00 (*) 1 grant funded by Università degli Studi di Torino within D.M. 351/2022 (Azione Dottorati di ricerca PNRR), unde conditiont to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 17.500,000. (*) At the end of the doctoral course, a joint qualification will be awarded by both the Universities of Genoa and Turin. Comparative assessment QUALFICATIONS/PUBLICATIONS AND INTERVIEW procedure 18.07.2022 - time 9.00 - At the Dipartimento di Lingue e Letterature Straniere e Cultur Moderneor the University of Turin, Turin. The room will be communicated through the PhD website and the communication will be sent to all students admitted to the interview. Further information on how to present qualifications.applications and the ado fibe three-year research project - analysis of existing literature on the research topic; -analysis of existing literature on the research topic; -analysis of existing literature on the research project. -analysis of existing literature on the research project. -analysis of existing literature on the research project will be evaluated according to "clarity of objectives, h		
(*) 2 grants funded by Università degli Studi di Torino, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 17.500,00 (*) 1 grant funded by Università degli Studi di Torino within D.M. 351/2022 (Azione Dottorati di ricerca PNRR), unde condition the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 17.500,00 At the end of the doctoral course, a joint qualification will be awarded by both the Universities of Genoa and Turin. Comparative assessment procedure QUALIFICATIONS/PUBLICATIONS AND INTERVIEW procedure Moderne of the University of Turin, Turin. The room will be communicated through the PhD website and the communication will be sent to all students admitted to the interview. Further information on how to present qualifications, applications applications superiod by the research project on a topic relater to bigital Humanitics and consistent with the themes and objectives specified in the 'Re search groblems that you plant to use to achieve the objectives; -expected results at the end of the three-year research proid. The project should be structured in the following sections: -tile; -summary; -objectives of the research project; -analysis of existing literature on the research topic; -research problems that you plant to use to achieve the objectives; -expected results at the end of the thre-year research period. <tr< th=""><th></th><th></th></tr<>		
expenses to be paid by the recipient, is €17.500,00 (*) 1 grant funded by Università degli Studi di Torino within D.M. 351/2022 (Azione Dottorati di ricerca PNRR), undei condition to the approval of Ministerial funding: the annual gross amount of the grant, including social security expenses to be paid by the recipient, is €17.500,00 (*) At the end of the doctoral course, a joint qualification will be awarded by both the Universities of Genoa and Turin. Comparative assessment procedure Interview 18.07.2022 – time 9.00 - At the Dipartimento di Lingue e Letterature Straniere e Cultur Moderneof the University of Turin, Turin. The room will be communicated through the PhD website and the communication will be sent to all students admitted to the interview. The interview at the request of the candidate, can also take place "online". Further information on how to present qualifications/publications applicants mustenclose a research project on a topic related to Digital Humanities and consistent with the themes and objectives specified in the 'Research Topics' section. The project should be structured in the following sections: title; summary; objectives of the research project; analysis of existing literature on the research topic; research problems that you want to face and to which you want to give an answer; methodologies that you plant to use to achieve the objectives; expected results at the end of the three-year research period. The project will be evaluated according to clarity of objectives, hypotheses and methodological approach of the research; originality and innovativeness of the proposal with respect to thereference literature; lear disbibily of the timing of the work phases; a solid bibliographical basis. The candidate should also indicate potential foreign partner research centres/places to carry ou the research. The project must be no longer than 4000 words plus references. In case of admission to the Ph.D. program, the candidate will normally carry out his/her activity within th		versità degli Studi di Torino, the annual gross amount of the grant, including social security
condition to the approval of Ministerial funding: the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 17.500,00. (***********************************	expenses to be paid by the re-	ecipient, is € 17.500,00
condition to the approval of Ministerial funding: the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 17.500,00. (***********************************	1 1 5	1
At the end of the doctoral course, a joint qualification will be awarded by both the Universities of Genoa and Turin. Comparative assessment procedure QUALIFICATIONS/PUBLICATIONS AND INTERVIEW Procedure 18.07.2022 – time 9.00 - At the Dipartimento di Lingue e Letterature Straniere e Cultur Modeme of the University of Turin, Turin. The roomwill be communicated through the PhD website and the communication will be sent to all students admitted to the interview. The interview at the request of the candidate, can also take place "online". Further information on toopic related to be present qualifications, applicants mustenclose a research project on a topic related to Digital Humanities and consistent with the themes and objectives specified in the 'Research qualifications'/publications' Purtice + information on the project should be structured in the following sections: -trike; -summary; -object ives of the research project; -analysis of existing literature on the research topic; -research problems that you want to face and to which you want to give an answer; -methodologies that you plant to use to achieve the objectives; -expected results at the end of the three-year research period. The project will be evaluated according to -clarity of objectives, hypotheses and methodological approach of the research; -originality and innovativeness of the proposal with respect chernece literature; -elarity of bigraph		
At the end of the doctoral course, a joint qualification will be awarded by both the Universities of Genoa and Turin. Comparative assessment procedure QUALIFICATIONS/PUBLICATIONS AND INTERVIEW Procedure 18.07.2022 – time 9.00 - At the Dipartimento di Lingue e Letterature Straniere e Cultur Modeme of the University of Turin, Turin. The roomwill be communicated through the PhD website and the communication will be sent to all students admitted to the interview. The interview at the request of the candidate, can also take place "online". Further information on toopic related to be project in the view at the request of the candidate, can also take place "online". Further informations of the project should be structured in the following sections: -trike; -summary; -object is so the research project; -analysis of existing literature on the research topic; -research problems that you want to face and to which you want to give an answer; -methodologies that you plant to use to achieve the objectives; -expected results at the end of the three-year research period. The project will be evaluated according to -clarity of objectives, hypotheses and methodological approach of the research; -originality and innovativeness of the proposal with respect chernele literature; -elarity of bigraphical basis. The candidate should also indicate potential foreign partner research centres/places		
procedure Important Interview 18.07.2022 – time 9.00 - At the Dipartimento di Lingue e Letterature Straniere e Cultur Moderne of the University of Turin, Turin. The room will be communicated through the PhD website and the communication will be sent to all students admitted to the interview. Further information on how to present qualifications/publications Together with their qualifications, applicants mustenclose a research project on a topic relate to Digital Humanities and consistent with the themes and objectives specified in the 'Research Topics' section. The project should be structured in the following sections: title; summary; -objectives of the research project; analysis of existing literature on the research topic; research problems that you want to face and to which you want to give an answer; methodologies that you plant to use to achieve the objectives; expected results at the end of the three-year research period. The project will be evaluated according to "clarity of objectives, hypotheses and methodological approach of the research; originality and innovativeness of the proposal with respect to thereference literature; -clear feasibility of the timing of the work phases; -a solid bibliographical basis. The candidate should also indicate potential foreign partner research centres/places to carry ou the research. The general Research Theme for which he/she has submitted the project (section ''Research Themes'') but not necessarily on the specific activities described and planned in the submitted research. Research Themes 1 A critical analysis of philological-literary research methods, based on archival and librar resoures, with the application of digital techonologies and yo on offere		
Interview 18.07.2022 - time 9.00 - At the Dipartimento di Lingue e Letterature Straniere e Cultur Moderne of the University of Turin, Turin. The roomwill be communicated through the PhD website and the communication will be sent to all students admitted to the interview. The interview at the request of the candidate, can also take place "online". Further information on how to present qualifications/publications Together with their qualifications, applicants mustenclose a research project on a topic related to Digital Humanities and consistent with the themes and objectives specified in the 'Research Topics' section. The project should be structured in the following sections: -title; -summary; -objectives of the research project; -analysis of existing literature on the research topic; -research problems that you want to face and to which you want to give an answer; -methodologies that you planto use to achieve the objectives; -expected results at the end of the three-year research period. The project will be evaluated according to velarity of objectives, hypotheses and methodological approach of the research; +originality and innovativeness of the proposal with respect to thereference literature; +clear feasibility of the timing of the work phases; * a solid bibliographical basis. The candidate should also indicate potential foreign partner research centres/places to carry ou the research. In case of admission to the Ph.D, program, the candidate will normally carry out his/her activitry within the general Research Theme for which he/she has submitted the project (section "Research Themes") but not necessarily on the specific activities described and planned in th submitted research. Research Themeses 1 A critical analysis of philological-literary	Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Modeme of the University of Turin, Turin. The room will be communicated through the PhD website and the communication will be sent to all students admitted to the interview. The interview at the request of the candidate, can also take place "online".Further information on how to present qualifications/publicationsTogether with their qualifications, applicants mustenclose a research project on a topic related to Digital Humanities and consistent with the themes and objectives specified in the 'Research Topics' section.The project should be structured in the following sections: -title; -summary; -objectives of the research project; -analysis of existing literature on the research topic; -research problems that you want to face and to which you want to give an answer; -methodologies that you plant to use to achieve the objectives; -expected results at the end of the three-year research period.The project will be evaluated according to •clarity of objectives, hypotheses and methodological approach of the research; •originality and innovativeness of the proposal with respect to the reference literature; *clear feasibility of the timing of the work phases; •a solid bibliographical basis.The candidate should also indicate potential foreign partner research centres/places to carry ou the research. The project must be no longer than 4000 words plus references.In case of admission to the Ph.D. program, the candidate will normally carry out his/her activity within the general Research Theme for which he/she has submitted the project (section "Research Themes") but not necessarily on the specific activities described and planned in the submitted research project, which has the main purpose of demonstrating the candidate's aptitud for research.Research Themes1 A critical analysis of philolo	procedure	
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		3. An accessibility for all project: the Antiquities Museum modelnce to 19th through 21st
century North-American. (°)		
	Information on references	
application. These referees must be university lecturers or experts in the field.		
		In the application form, candidates must indicate the name, position and place of employment of
their chosen referees.		
		It will be the responsibility of the referees supporting the application to send the letters of
		reference by the deadline of the call to the PhD coordinator: elisa.bricco@unige.it, and for
		information to: gabriella.bosco@unito.it (theme 1), andrea.carosso@unito.it (theme 2), and
silvia.orsino@unige.it		

Foreign Languages	Candidates must have a CEFR C2 level competence in French (if applying for theme 1), or in English (if applying for theme 2), besides their mother tongue. Candidates holding a university degree from a non Italian institution must submit a C2 CEFR level certification, not older than 2 years.
Further Information	The administrative contact person for the PhD is dr. Silvia Orsino: <u>silvia.orsino@unige.it</u>

(°) 1 place added following the letter received from Università degli Studi di Torino dated 16.06.2022

Course: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION

In agreement with Università degli Studi di Torino - University of Turin

Curriculum: LANGUAGES, CULTURES AND DIGITAL TECHNOLOGIES (CODE 9249)

Course Coordinator: Bricc	o Elisa
	guages and Cultures (Dipartimento di Lingue e culture moderne – DLCM)
Places: 4 – Grants: 4 (*)	
expenses to be paid by the r	
	M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval innual gross amount of the grant, including social security expenses to be paid by the recipient, is
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	25.07.2022 - time 10.00 - At the Department of Modern Languages and di Cultures of the
	University of Genoa, Genoa.
	The room will be communicated through the PhD website and the communication will be sent to all students admitted to the interview.
	The interview at the request of the candidate, can also take place "online".
Further information on	Together with their qualifications, applicants must enclose a research project on a topic related to
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	The candidate should also indicate potential foreign partner research centres/places to carry out
	the research. The project must be no longer than 4000 words plus references.
	In case of admission to the Ph.D. program, the candidate will normally carry out his/her activity within the general Research Theme for which he/she has submitted the project (section "Research Themes") but not necessarily on the specific activities described and planned in the submitted research project, which has the main purpose of demonstrating the candidate's aptitude
	for research.
Research Themes	1 - Digital technologies to support linguistic research (lexicography, terminology, speech
	analysis, translation and interpretation, subtitling) and literary research (in a diachronic and
	synchronic perspective, on specific literary genres, on socio-literary issues, on intermediation): development of multimedia and network models and products, corpora analysis etc.
	2 - Digital technologies to support distance learning (methodology for distance language
	education, MOOCs, autonomous learning through technologies, mobile-assisted language
	learning); digital tools for assessment and testing (adaptive testing, distance learning, applications for the assessment of L2 texts) and technologies for language learning research (learner corpora and survey methods, computer-supported quantitative/qualitative analysis).
	3 - Computational linguistics, artificial intelligence, data analysis and semantic technologies for
	analysing texts and multimedia resources, extracting information, classifying and interpreting content and its relationships, as a basis for developing conversational interfaces, intelligent digital resources (e.g. MOOCs and intelligent texts), advanced adaptive user interfaces and personalised learning paths.

	4 - Innovative methodologies for the management and valorization of PA data on the web; creation of knowledge graphs using a terminology-ontology to link and structure data effectively for the semantic web (Linked Open Data (LOD)). Experimentation of these methodologies for the purpose of analysing a specific case study with the creation of a model that can then be extended to other domains and structures. (DM 351)
Information on references	11 11
	application. These referees must be university lecturers or experts in the field.
	In the application form, candidates must indicate the name, position and place of employment of their chosen referees.
	It will be the responsibility of the referees supporting the application to send the letters of
	reference by the deadline of the call to the PhD coordinator: <u>elisa.bricco@unige.it</u> and for
	information to: ilaria.torre@unige.it and silvia.orsino@unige.it.
Foreign Languages	Applicants must demonstrate knowledge of at least one foreign language chosen between English
	and French.
Further Information	The administrative contact person for the PhD is dr. Silvia Orsino: <u>silvia.orsino@unige.it</u> .

Course: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, THE ARTS, LANGUAGES, CULTURES AND COMMUNICATION

In agreement with Università degli Studi di Torino - University of Turin

Curriculum: LINGUISTICS, APPLIED LINGUISTICS AND ONOMASTICS (CODE 9250)

Course Coordinatory Dries	
Course Coordinator: Brice	
	guages and Cultures (Dipartimento di Lingue e culture moderne – DLCM)
Places: $3 - \text{Grants: } 3 (*)$	
	versità degli Studi di Torino, of which 1 grant funded within UNITA project, the annual gross ng social security expenses to be paid by the recipient, is $\in 17.500,00.$ ^(°)
	purse, a joint qualification will be awarded by both the Universities of Genoa and Turin.
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	QUALITICATIONS/I UDLICATIONS AND INTERVIEW
Interview	20.07.2022 – time 10.00 - At the Dipartimento di Lingue e Letterature Straniere e Culture
Interview	Moderne of the University of Turin, Turin.
	The room will be communicated through the PhD website and the communication will be sent to
	all students admitted to the interview.
Further information on	The interview at the request of the candidate, can also take place "online".
	Together with their qualifications, applicants must enclose a research project on a topic related
how to present	to Digital Humanities and consistent with the themes and objectives specified in the 'Research
qualifications/publications	Topics' section.
	The project should be structured in the following sections:
	-title;
	-summary;
	-objectives of the research project;
	-analysis of existing literature on the research topic;
	-research problems that you want to face and to which you want to give an answer;
	-methodologies that you plan to use to achieve the objectives;
	-expected results at the end of the three-year research period.
	The project will be evaluated according to
	•clarity of objectives, hypotheses and methodological approach of the research;
	•originality and innovativeness of the proposal with respect to the reference literature;
	•clear feasibility of the timing of the work phases;
	•a solid bibliographical basis.
	The candidate should also indicate potential foreign partner research centres/places to carry out
	the research.
	The project must be no longer than 4000 words plus references.
	The project must be no longer than 4000 words plus references.
	In case of admission to the Ph.D. program, the candidate will normally carry out his/her activity
	within the general Research Theme for which he/she has submitted the project (section
	"Research Themes") but not necessarily on the specific activities described and planned in the
	submitted research project, which has the main purpose of demonstrating the candidate's aptitude
	for research.
Research Themes	1- A critical analysis of the application of computational linguistics on social challenges and
Research menes	development of resources and tools for countering phenomena such as hate speech, sexis m and
	racismin different forms of textual communication in multilingual perspective.
	nacional different forms of textuar communication in marining dai perspective.
	2- Critical reflection and applications of digital technologies to languages and cultures (design
	and development of multimedia and networked products, use of technologies for language
	learning and teaching research in specific humanistic fields, with particular reference to foreign
	languages and Italian as L1 and FL/L2).
	3- Serious games to facilitate technology-enhanced adaptive learning, to promote the
	development of problem solving skills and computational thinking within shared training
	courses in the Digital Learning Environment of the UNITA Alliance (<u>http://univ-unita.eu/</u>).
	courses in the Dignal Learning Environmentor the OrittA Alliance (<u>http://univ-unita.ew</u>).

Information on references	Applicants must choose no fewer than one and no more than three referees to support their application. These referees must be university lecturers or experts in the field.
	In the application form, candidates must indicate the name, position and place of employment of their chosen referees.
	It will be the responsibility of the referees supporting the application to send the letters of
	reference by the deadline of the call to the PhD coordinator: <u>elisa.bricco@unige.it</u> , and for
	information to: elisa.corino@unito.it (for themes 1 and 2), marina.marchisio@unito.it (for theme
	3) and <u>silvia.orsino@unige.it</u>
Lingue straniere	Candidates must be fluent in two of the following languages: English, French and Spanish (theme n. 1), or in English and at least another European language (theme 2) or English (theme 3), besides their mother tongue. Candidates holding a university degree from a non Italian
	institution, must submit a C2 CEFR level certification, not older than 2 years.
Further Information	The administrative contact person for the PhD is dr. Silvia Orsino: <u>silvia.orsino@unige.it</u> .

(°) 1 place added following the letter received from Università degli Studi di Torino dated 16.06.2022

Curriculum: PHILOSOPHY OF LAW AND HISTORY OF LEGAL CULTURE (CODE 9251)

Course Coordinator: Chiassoni Pierluigi	
Department of Law Studies (Dipartimento di Giuris prudenza – DDG)	
Places: $4(^{\circ})$ – Grants: $2(^{*})$	
	rsità degli Studi di Genova, the annual gross amount of the grant, in cluding social security
expenses to be paid by the re	
(°) 1 position for a graduate l	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS
procedure	
Further information on	From the CV and other documents enclosed the following data should result:
how to present	a) University degree and the final note or qualification thereof;
qualifications/publications	b) any other post-lauream degree (like, e.g., Master degrees);
A	c) publications concerning one or more of the research topics of the present Curriculum, if
	any;
	d) research experiences and research and educational activities, if any.
Exam Syllabus	Candidates must submit a research project (maximum 10000 characters, spaces and essential
>j	bibliographical references included, under penalty of exclusion) on a research topic singled
	out in the following box. The project must contain, under penalty of exclusion, a clear
	statement of the topic, goals, and stages of the research activity, along with essential
	bibliographical references.
	The research project can be written, on the candidate's choice, in Italian, French, English, or
	Spanish.
Research Themes	Legal Philosophies
ites cui en incines	Legal Reasoning
	Theories of Legal Interpretation Theories of Legal Security 1
	• Theory of Legal Sources
	General Theory of Law and State
	Constitutional Interpretation
	Logic and Legal Argumentation
	Juridical Enlightenment and Codification Ideologies
	Philosophies of Punishment
	Epistemology and Theory of Legal Science
	 Natural Law and Legal Positivism
	• Feminist Theories of Law
	• Theory of Norms and Legal Systems
	• Theory of Legal Language
	• Equality, Poverty, Welfare State, Regulation and Deregulation
	• History and Theories of Subjective Rights
	• Law, Constitutions and Constitutionalism
	 History and Theories of Legal Dogmatics
	 Bioethics and Legal Philosophy
	 Sociology of Law and History of Legal-Sociological Thought
	 History of Legal Culture and Thought
	 Law and Culture
L.C	• Law and Social Change
Information on references	Candidates must provide up to three letters of reference (minimum one) supporting their
	application.
	The letters must be written by Academics, or Experts, in the research topics of the
	Curriculum. They will send their letter of reference, with in the deadline established in the
	Call, directly to the following address: <u>pierluigi.chiassoni@unige.it</u> , <u>55563@unige.it</u> .
	In their application form, candidates must point out the name, the qualification, and the
Foreign Longuages	workplace of the persons that will write reference letters for them.
Foreign Languages	English, Spanish
Further Information	During the three years of the Program (and preferably during the second year) PhD candidates
	shall spend a minimum six-months period of research abroad, or at qualified international
	Academic and Research Centres having their seat in Italy, doing research on the topic of their
	PhD dissertation.
	Referente del curriculum/Curriculumcoordinator:
	Prof. Pierluigi Chiassoni <u>pierluigi.chiassoni@unige.it</u>
	Referente amministrativo / Curriculum secretary:
	dott.ssa Stefania Lavezzo <u>55563@unige.it</u>

Curriculum: INTERNATIONAL LAW (COMMERCIAL, EUROPEAN UNION AND INTERNATIONAL LAW) (CODE 9254)

Course Coordinator: Chiass	oniPierluigi
	Dipartimento di Giuris prudenza – DDG)
Places: 2–Grants: 2 (*)	
(*) 2 grants funded by Univer	rsità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the rec	cipient, is € 16.500,00
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	19.07.2022, h. 09.00 a.m. at the former International and Navigation Law Section of the
	Department of Law, Via Balbi n. 22/7-B, 3rd floor.
	The interview may be held, by order of the Commission or at the candi-date's request, also
	online (on Skype/Teams). If the Commission de-cides to hold the interview online, the
	decision will be notified to candi-dates two weeks prior to the date of the interview with the
	indication of the reference contact on Skype/Teams. In the absence of such notification, candidates must inform Professor Paola Ivaldi (Paola.Ivaldi@unige.it) and Dr. Lavezzo
	(55563@unige.it) of their choice to attend the interview online no later than seven days before
	the date fixed for the interview. In the absence of these conditions, the interview will be held
	in person.
Further information on	Qualifications include the information contained in the application and in the curriculum vitae
how to present	et studiorum, the research project, any further qualifications. The application and attached
qualifications/publications	documents may be written in Italian or English, French or Spanish.
Exam Syllabus	The interview consists:
	- an in-depth examination of the candidate's skills in relation to the key issues relating, at
	candidate's choice, to one of the following areas: international law, European Union law and
	commercial law, with particular regard to the research topics set out below;
	- in the discussion of the research project presented.
Research Themes	Within the curriculum in international law, European Union law and commercial law there are
	three research themes, substantially corresponding to the disciplinary "areas" (and related
	"competences") that are represented in it. These themes are part of a unitary framework,
	characterized by the sharing of a system of sources known as "multiple sources", by the presence of consolidated systems of protection and by the multidisciplinary approach.
	The first research theme concerns the most significant recent developments in international
	law (both public and private), including references to the international maritime law, analyzed
	from the perspective of the extension of the rights guaranteed to individuals and their
	"effective" judicial protection. The same perspective is adopted with reference to the
	European Union's legal system, of which the profiles of institutional as well as material law
	are highlighted (single market and other areas of competence of the Union, including those
	with external relevance).
	With respect to commercial law, again within the framework of the European Union's
	harmonization regulations, specific attention is paid to the regulation of banking, financial and
	insurance intermediaries and the corporate governance of listed companies, including the
Information on references	recent legislative and regulatory initiatives on EU sustainable finance. Candidates must choose no less than one and no more than three contacts to support their
information on references	application. These contacts must be academics or experts in the field. It will be the
	responsibility of the referees to send the letters of reference, within the deadline of the call, to
	Prof. Paola Ivaldi, to the following e-mail address: <u>Paola.Ivaldi@unige.it</u> as well as to the
	administrative contact, Dr. M. Stefania Lavezzo: <u>55563@unige.it</u> .
	In the application form, candidates must specify the name, qualification and place of
	employment of the contact persons chosen by them.
Foreign Languages	English
Further Information	During the three-year period (and, preferably, during the second year) PhD students must
	spend at least 12 months abroad, or in Italy at international training center, to carry out in -
	depth studies in their respective fields of research.
	Contact percenter the curriculum
	Contact person for the curriculum: Prof. <u>Paola.Ivaldi@unige.it</u>
	1101. <u>1 aoia.ivalute unigo.u</u>
	Administrative contact person:
	Dr. M. Stefania Lavezzo
	e-mail: <u>55563@unige.it</u>

Curriculum: PRIVATE LAW (LABOUR, PRIVATE, PRIVATE COMPARATIVE AND CIVIL PROCEDURAL LAW) (CODE 9252)

Course Coordinator: Chia	ssoni Pierluigi
	s (Dipartimento di Giuris prudenza – DDG)
Places: 2 – Grants: 2 (*)	
(*) 1 grant funded by Univ	versità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the	
	DDG, the annual gross amount of the grant, including social security expenses to be paid by the
recipient, is € 16.500,00	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	20.07.2022, h. 3.00 p.m. – at the Private Law Section of the Department of Law, Via Balbi n. 22 (Stears B, 4th floor) Genova. Candidates residing abroad may take the exam by the means of a Microsoft Teams meeting. In this case, the candidate has to express a personal preference for the online examination and
	communicate the e-mail account of reference.
	Since the session of the evaluating commission dedicated to the candidate's interviews has to be open to the public and take place in the same meeting, please consider that candidates who are unable to connect to the online meeting and maintain a connection suitable to the purpose of taking the interview for the duration of the whole meeting - due to problems occurred independently from the means used by the members of the commission - will be held absent.
Further information on how to present qualifications/publication s	All relevant degrees need to flow from the curriculum vitae et studiorum, and the research project. The submission and other required materials attached could be written in Italian, English, French or Spanish.
Exam Syllabus	The interview will focus on:
·	 a complete as sessment of subjects proposed in the curriculum, based on the candidate choice, between the following areas: private law; private comparative law; labor law, civil procedure, consistent with the research areas (see next section) the research project discussion: the project may not exceed 15000 characters including spaces (a part from bibliography)
Research Themes	Within the academic curriculum is centered on 4 research areas, substantially corresponding to the discipline "areas" (and respective "competences") therein represented.
	The above-mentioned areas are placed in a unified framework, characterized by common sources of law, by a multilevel system and by the interdisciplinary approach.
	The first research area reflects the evolution of the current private law legal framework, considering a new legal framework and the comparatist analysis. Within this perspective, the evolutive lines of the system will be analyzed with special regard to classic themes in private law
	The second theme rotates towards the new developments of private comparative law with special regard to property law, secured transactions, community property regimes, and NGO.
	The third area focuses on labour law and industrial relations, with special regard to the his toric evolution and the recent reforms that affected the legal framework, within the broader scheme of EU law and social politics.
	The fourth area centers on the analysis of the current scenario of civil procedure and litigation – also in a comparative perspective – pre-trial/trial/evidence phase and related is sues.

Information on references	Candidates must choose not less than one and not more than three referees to support their application. These contacts must be university professors or experts in the subject. The referents will be responsible for sending the reference letters, within the deadline of the call, to the chair of the curriculum committee, Prof.ssa Gisella De Simone (gisella.desimone@unige.it, as well to the administrative contact person, Dott.ssa M. Stefania Lavezzo: 55563@unige.it. In the application for admission, candidates must specify the name, qualification and place of employment of the referees they have chosen.
Foreign Languages	English
Further Information	During the three-year period (and, preferably, in the second year), PhD students must spend abroad, or in Italy at international training centers, for a total period of at least 6 months (possibly not consecutive, but in any case - for each fraction - of adequate consistency) to carry out in-depth activities in the respective research areas. Chair of the curriculum committee: Prof. Gisella De Simone gisella.desimone@unige.it Administrative contact person: Dott.ssa M. Stefania Lavezzo e-mail: <u>55563@unige.it</u>

Curriculum: PUBLIC LAW (ADMINISTRATIVE, CONSTITUTIONAL, CRIMINAL, CRIMINAL PROCEDURAL AND TAX LAW) (9253)

Course Coordi	nator: Chiassoni Pierluigi
	Law Studies (Dipartimento di Giuris prudenza – DDG)
Places: 2-Gra	nts: 2(*)
	ded by Università degli Studi di Genova, the annual gross amount of the grant, in cluding social security paid by the recipient, is € 16.500,00
Comparative	QUALIFICATIONS/PUBLICATIONS AND EXAM
assessment	
procedure	
Written Test	19 July 2022 h. 10.00 a.m., classroomPoggi (via Balbi 5 - Palazzo dell'Università)
Interview	20 July 2022 h. 2.00 p.m., classroomPoggi (via Balbi 5 - Palazzo dell'Università)
Exam Syllabus	Written test: reasoned comment to a legislative act or a court decision or a scholar article about a legal subject coherent with the research themes listed in this call for application.
	The interview will focus on the discussion of the written test and of the research project in order to assess the applicant's ability to develop it.
	In addition, the applicants will be expected to show evidence of their general knowledge about the subject area of the PhD course as well of his/her academic potential.
	The research proposal shall focus on topics related to the research fields listed in the appropriate section of the call for application.
	The research project is requested to include: the thematic area of interest (administrative law, constitutional law and comparative public law, criminal law, criminal procedure law, tax law), title of the project, state of the art, synthetic bibliography, main research question(s), planned work, expected results.
Research	The proposal submitted by the candidate must relate to one of the following thematic areas:
Themes	
	Constitutional law
	- Historical-institutional evolution of the contemporary state; theory of the forms of state and forms of government; constitutional review; EU constitutionalization process and national and supranational protection of fundamental rights system; domestic, EU and international sources of law;
	Administrative law - issues related to recent reforms in the area of administrative organization and administrative activity, als o with reference to the positions taken by the jurisprudence; - topical issues in administrative justice;
	Criminal law - Review of penal code (issues of general and special part), even in the prospective of unification and empowerment of international cooperation tools; Review of sanctioning system;
	Criminal procedure law - Topics related to recent reforms by Parliament or recent case law (of National or European Courts); comparative and European criminal procedural law (with preference for the analysis of the so-called StockholmDirectives); technological development and criminal proceedings (with particular reference to issues concerning artificial intelligence);
	- Tax law Fair trial and due process of law. The protection of fundamental rights and the challenges of technological progress.
	Human rights; Legal Pluralism; Minorities Rights; Federalism and regionalism; Constitution-making power and constitutional transitions; Fairness and transparency of political public decision-making and right to information of citizens; Public powers in the global legal space.
Information	No letters of reference are required. Any letters of reference received in any case will not be taken into
on references	account for the purposes of scoring.
Foreign	One of the following languages: English, French, German, Spanish. Knowledge will be verified during the
<u> </u>	25

Languages	interview.
Further Information	During the three-year PhD period (preferably during the second year), PhD students must spend a period of time abroad or at higher education institutions of an international nature in Italy, in order to carry out in - depth studies in their respective fields of research; this period must have a total duration of at least 6 months (including non-consecutive periods, but in any case of adequate duration for each fraction). Administrative contact: Dr. M. Stefania Lavezzo <u>55563@unige.it</u> Responsible for the curriculum: Prof. Mitja Gialuz
	mitja.gialuz@unige.it

Curriculum: PHILOSOPHY OF LAW AND HISTORY OF LEGAL CULTURE -- CLOE Project (9255)

Course Coordinator: Chia	Course Coordinator: Chiassoni Pierluigi	
Department of Law Studies (Dipartimento di Giuris prudenza – DDG)		
Places: 1(°) – Grants: 0		
(°) 1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA- COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation" GA n. 101034449. For more details, see the Marie Skłodowska Curie COFUND project website at https://cloe.dp.unige.it. For the CLOE COFUND project, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 years of research career at the date of the recruitment and not have been already awarded a PhD degree before. ESRs have also to satisfy the 'mobility rule': they must not have resided or carried out their main activity (work, study etc.) in Italy for more than 12 months in the three years prior to the date of recruitment. Compulsory national service, short stays such as holidays and time spent under a procedure to obtain refugee status under the Geneva Convention are not taken into a c c oun t for the calculation.		
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	The interview of admitted candidates will remotely take place (using Microsoft TEAMS, SKYPE or other platform) on 20 July 2022, at 14.30 (CET). Further information will be provided via e-mail after 30 June 2022.	
Further information on	The application must include the following documents (.pdf format):	
how to present	1. A copy of a Valid Passport/ID;	
qualifications/publication	2. A translation of the academic qualifications duly notarized by the Italian diplomatic or	
S	 consular office of the Country in which the qualifications were obtained and Declaration of Value of the qualifications prepared by the Italian diplomatic -consular Representatives, that is located in the Country where the qualifications were obtained. If the Italian diplomatic or consular office does not provide the documentation in time for the application, applicants should enclose all the documentation available (e.g. degree certificates, transcript of records); 3. In case of qualifications issued by an EU contry, previous documents may be replaced by the Diploma Supplement delivered by the University which has issued the title, ac cording to the standards of the EU and UNESCO/CEPES; 4. Master thesis extended abstract (max.10 pages); 5. Curriculum Vitae; 6. Letter of Motivation; 7. A self-declaration (https://cloe.dp.unige.it/en/application_package_2022) to demonstrate that they respect the MSCA mobility rule, the ESR definition, and the English language proficien cy (IELTS scores, TOEFL results, or proof of a degree awarded in English); 8. Research project proposal (max. 10.000 charaters, including spaces, footnotes and references); 9. Ethics self-assessment - through the form available at the following link: https://cloe.dp.unige.it/en/application thereof; 10. Up to three letters of reference; 11. Publication(s)/Patent(s)(optional; max.5) From the CV and other documents enclosed the following data should result: a) University degree and the final note or qualification thereof; b) any other post-lauream degree (like, e.g., Master degrees); c) publications concerning one or more of the research topics of the present Curriculum, if any; d) research experiences and research and educational activities, if any. Further information on the submission of the applications are available on the project website at the following link: http://cloe.dp.unige.it 	

Exam Syllabus	 The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically: the RESEARCH PROJECT must fit clearly into one of the research topics singled out in the box "Research topics" below. Morover, the project must contain (i) a clearly defined research problem, indicate (ii) basic metodological choices, list (iii) the main bibliography, and give (iv) a rough outline of the argument(s) the candidate will use to address the problem. In accord ance with the selection rules for the PhD curriculum "Philosophy of Law and History of Legal Culture", the research project (v) must be written in English, and (vi) it must not exceed 10.000 characters (including all spaces, bibliography and references), on penalty of exclusion from the competition. The INTERVIEW will be used to discuss the research project presented by the candidate and its relation to the CLOE doctoral training programme. The interview will be in English.
	Further information on the CLOE doctoral training programme and the selection procedures are available on the CLOE website at the following link: <u>http://cloe.dp.unige.it</u> .
Research Themes	The candidate must choose one of the two proposed topics:
	a) Research Theme H2020-MSCA-COFUND2020, project n. 1: Alternatives to private property in the history of legal culture.
	b) Research Theme H2020-MSCA-COFUND2020, project n. 2: Legal history and sociology of private, public and common property.
	Further information on research themes and on the project proposal structure are available on the project's website at the following link: <u>http://cloe.dp.unige.it</u> .
Information on	Candidates must provide up to three letters of reference (minimum one) supporting their
references	application. The letters must be written by Academics, or Experts, in the research topics of the Curriculum. They will send their letter of reference, with in the deadline established in the Call, directly to the follow-ing addresses: <u>isa.fanlo@unige.it</u> (with <u>cloe.dp@unige.it</u> in cc).
	In their application form, candidates must point out the name, the qualification, and the workplace of the persons that will write reference letters for them.
Foreign Languages	English
Further Information	Within the three years of the Program (and, preferably, during the second year) PhD students shall spend at least 6 months abroad, or at qualified international training centers in Italy, doing research on the topic of their Phd dissertation (possibly also non-consecutive, but in any case – for each fraction – of adequate consistency).
	Curriculum coordinator: Prof. Pierluigi Chias soni pierluigi.chias soni@unige.i t
	Curriculum secretary: dott.ssa Stefania Lavezzo <u>55563@unige.it</u>
	CLOE COFUND Supervisors in the PhD curriculum: Prof. Isabel Fanlo (<u>isa.fanlo@unige.it</u>), Prof. Andrej Kristan (<u>andrej.kristan@unige.it</u>).

Course: ECONOMICS AND QUANTITATIVE METHODS (CODE 9256)

Course Coordin	ator: Piga Claudio Antonio Giuseppe		
Department of Economics (Dipartimento di Economia – DIEC)			
Places: 8-Scho	larships: 8(*) <mark>(°)</mark>		
	s funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security		
	expenses to be paid by the recipient, is $\in 16.500,00,00$,00		
(*) 1 grant funded within D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval			
of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is			
	\notin 16.500,00. (*) 1 grant funded within D.M. 252/2022 (as funded by Dulay Innovation Labs Sel), under condition to the approval of		
	() 1 grant funded within D.M. $352/2022$ (cofunded by Rulex Innovation Labs Srl), under condition to the approval of Inisterial funding; the annual gross amount of the grant, including social security expenses to be paid by therecipient, is \in		
16.500,00. (°)	ing, the annual gross and antor the grant, menduing social security expenses to be plate by the recipient, is e		
	ed within D.M. 352/2022 (cofunded by VHIT Spa/Bosch), under condition to the approval of Ministerial		
	al gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 16.500,00 (°)		
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW		
assessment			
procedure			
Interview	18th July 2022, at 9:30 AM, on a TEAMS channel		
Exam Syllabus	Discussion on the candidate's CV and of the submitted Research Project. The discussion will be held in		
	English		
Research	Microeconomics		
Themes	Macroeconomics and Growth Theory		
	Statistics		
	Economic History		
	History of Economic Thought		
	Behavioural Economics		
	Industrial Organization and Economics		
	Health Economics		
	Regional Economics		
	• TourismEconomics		
	Labour Economics		
	The scholarship funded via the DM 351 is ringfenced on research themes regarding the Public		
	Administration. Title of the project: Analysis of the European, national and regional planning context		
	and definition of a proposal for a regional strategy on a specific thematic area.		
	The project will focus on one of the thematic areas of regional intervention, its analysis as well as the		
	definition of a proposal for its strategic development in line with the objectives set out by the regional		
	institutions .		
	The project will be structured along the following activities:		
	• Mapping of the strategic framework at national and European level for a specific thematic sector;		
	• Analysis of the existing legislation and of the planning documents at the regional level;		
	• Definition of a strategic document that relates the state of the art obtained from the previous activities		
	with the objectives set out by the regional institutions;		
	• Creation of a model of governance and of monitoring/evaluation of the strategy, specifying the agents		
	involved, the time horizon and the key performance indicators.		
	Grant funded within D.M. 352/2022 (cofunded by Rulex Innovation Labs Srl): User experience –		
	marketing (°) Grant funded within D.M. 352/2022 (cofunded by VHIT Spa/Bosch): Forecast models for marketing (°)		
Information on	Send at least one and no more than three reference letters in support of application to the following e - mail		
references	address: <u>dottoratodiec@economia.unige.it</u>		
Foreign	English		
Languages			
Further	For further information: <u>https://economia.unige.it/dottorato-di-ricerca-in-economics-and-political-economy</u>		
Information	or write an e-mail to: <u>dottoratodiec@economia.unige.it</u> or to the PhD Coordinator, Professor Claudio Piga:		
	claudio.piga@unige.it		
	A period of study and research, lasting between six and twelve months, will have to be spent as a guest of		
	the partner company Liguria Ricerche.		
^(°) 2 grants added	following the agreements with RulexInnovation Labs Srl and VHIT Spa/Bosch		

Course: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: TRANSLATIONAL HAEMATOLOGY (CODE 9257)

Course Coor	dinator: Nencioni Alessio
Department of	f Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)
Places: 1-G	rants: 1 (*)
	nded by Università degli Studi di Genova, the annual gross amount of the grant, including social security e paid by the recipient, is € 16.500,00
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	21.7.2022 – 9.00 am (remote interview)
Exam Syllabus	Remote interview: during the interview, the candidate will be evaluated with respect to the following criteria: -Knowledge of the topics to be covered (see Research Themes) -Motivation -Logical thinking -Overall vision -Aptitude to carry out an independent project -Potential for excellence and leadership qualities -Capacity to work in team Knowledge of the English language will be evaluated by a short reading and translation test.
Research Themes	 Overview of main biological features observed in blood cancers: leukemias, lymphomas and multiple myeloma Novel therapeutic approaches for the treatment of hematologic malignancies by use of precision -medic in e strategies The role of single-cell profiling and related technologies for studying tumor heterogeneity
	- Bioinformatics approaches used to investigate hematologic malignancies - The role of bone marrow microen vironment in the pathophysiology of hematologic malignancies
Information on references	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: <u>alessio.nencioni@unige.it</u> , <u>ricercadimi@unige.it</u> , to Prof. Roberto Lemoli e-mail: <u>roberto.lemoli@unige.it</u> Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors.
Foreign Languages	English
Further Information	Reference professors: Prof Roberto Lemoli e-mail: <u>roberto.lemoli@unige.it</u> Michele Cea e-mail: <u>michele.cea@unige.it</u>

Course: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: CLINICAL PHATOPHYSIOLOGY OF ENDOCRINE AND METABOLIC DISORDERS (CODE 9258)

Course Coordin	ator: Nencioni Alessio
Department of In	ternal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)
Places: 1-Gran	ts: 1(*)
(*) 1 grant funde	d by Università degli Studi di Genova; the annual gross amount of the grant, including social security
expenses to be p	aid by the recipient, is € 16.500,00
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
assessment	
procedure	
Interview	22.7.2022 – 9.00 am (remote interview)
Exam Syllabus	Remote interview: during the interview, the candidate will be evaluated with respect to the following
	criteria:
	-Knowledge of the topics to be covered (see Research Themes)
	-Motivation
	-Logical thinking
	-Overall vision
	-Aptitude to carry out an independent project
	-Potential for excellence and leadership qualities
	-Capacity to work in team
D	Knowledge of the English language will be evaluated by a short reading and translation test.
Research	-Pathophysiology of pituitary secretion, in particular the hypothalamic-somatotropinic and prolactinic axis
Themes	and to the IGF1 system
	-Physiopathology of somatostatin receptors in neuroendocrine and pituitary tumors
	- Epidemiological and clinical as pects of thyroid cancer
Information on	-Cellular mechanisms of action of insulin and other growth factors
	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be
references	University Professors or recognized experts in the field. Supporters will take care of sending their approval
	letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina Interne DIM wiele Peredette $XV = 6$ (16122 Concurs) a mile classic nencioni Queice it
	Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: <u>alessio.nencioni@unige.it</u> , <u>ricercadimi@unige.it</u> , to Prof Diego Ferone e-mail: <u>ferone@unige.it</u>
	Within the application form, applicants will have to specify in detail name, surname and affiliation of the
	reference tutors
Foreign	English
Languages	
Further	Reference professors:
Information	Prof Diego Ferone e-mail: <u>ferone@unige.it</u>
	Prof. Davide Maggi e-mail: <u>davide.maggi@unige.it</u>

Curriculum: CLINICAL PATHOPHYSIOLOGY OF RENAL, CARDIOVASCULAR, ARTERIAL HYPERTENSIVE DISEASES (CODE 9259)

Course Coordin	ator: Nencioni Alessio
•	nternal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)
Places: 5-Gran	
	led by Università degli Studi di Genova; the annual gross amount of the grant, including social security
	aid by the recipient, is $\in 16.500,00$
	ed within D.M. 352/2022 (cofunded by Esaote Spa), under condition to the approval of Ministerial funding;
	amount of the grant, including social security expenses to be paid by the recipient, is $\in 16.500, 00.$ (°)
	ed within D.M. 352/2022 (cofunded by Ebit srl), under condition to the approval of Ministerial funding; the
	bount of the grant, including social security expenses to be paid by the recipient, is $\notin 16.500, 00.$ (°)
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
assessment	
procedure	
Interview	22.7.2022 – 9.00 am (remote interview)
Exam Syllabus	Remote interview: during the interview, the candidate will be evaluated with respect to the following
	criteria:
	- Knowledge of the research topics
	- Motivation
	- Logical thinking
	- Ability to carry out an independent project
	- Potential for excellence and leadership qualities
	- Ability to work in a team
	- Discussion of the presented project
	Knowledge of the English language will be assessed through a short reading and translation test or if the
	interview is held in English.
Research	-Hemodynamic and metabolic mechanisms involved in the development of renal and extra-renal organ
Themes	damage
	- Cardiovascular and renal risk factors in hypertension, diabetic nephropathy, glomerulonephritis and
	kidney transplantation.
	- Atherosclerosis, diabetic nephropathy, chronic kidney disease: role of innate and acquired immune
	system.
	- Biology, pathophysiology and epidemiology of heart failure.
	- Clinical experimental cardio-oncology
	- Thrombosis and anticoagulation in atrial fibrillation and acute coronary syndromes.
	- Role of inflammatory mediators in ischemic heart disease, in ischemic stroke, in metabolic and kidney
	diseases and their complications.
	- Echocardiography, other cardiac imaging modalities, artificial intelligence-based machine learning and
	deep learning (research theme grant funded within D.M. 352/2022 cofunded by Esaote Spa) (°)
	- Cardiac disease categories, complexity of cardiac diseases, big data, Conventional statistical analysis,
T (P) (P)	artificial intelligence-based analysis (°)
Information on	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be
references	University Professors or recognized experts in the field. Supporters will take care of sending their approval
	letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina
	Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: <u>alessio.nencioni@unige.it</u> ,
	ricercadimi@unige.it, to Prof. Francesca Chiara Viazzi e-mail: francesca.viazzi@unige.it, Prof. Pietro
	Ameri e-mail: pietroameri@unige.it and Prof. Fabrizio Montecuccoe-mail: fabrizio.montecucco@unige.it
	Within the application form, applicants will have to specify in detail name, surname and affiliation of the
	reference tutors
Foreign	English
Languages	
Further	Reference professors:
Information	Prof.ssa Francesca Chiara Viazzi
	e-mail: <u>francesca.viazzi@unige.it</u>
	Prof. Pietro Ameri
	e-mail: <u>pietroameri@unige.it</u>
	Prof. Fabrizio Montecucco
	e-mail: <u>fabrizio.montecucco@unige.it</u>
^o) 1 grant added t	following the agreement with Es aote dated 26.05.2022 and 1 grant added following the agreement with Ebit

(°) 1 grant added following the agreement with Es aote dated 26.05.2022 and 1 grant added following the agreement with Eb it Srl dated 27.5.2022

Curriculum: ONCOLOGIC GENETICS AND MOLECULAR PATHOLOGY (CODE 9261)

	linator: Nencioni Alessio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)		
Places: 1-Gr		
	ded by Università degli Studi di Genova; the annual gross amount of the grant, including social security	
	e paid by the recipient, is € 16.500,00	
	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
assessment		
procedure		
Interview	21.7.2022 – 9:00 am (remote interview)	
_		
Exam	- Knowledge of the research topics	
Syllabus	- Motivation	
	- Logical thinking	
	- Ability to carry out an independent project	
	- Potential for excellence and leadership qualities	
	- Ability to work in a team	
	- Discussion of the presented project	
	Knowledge of the English language will be assessed through a short reading and translation test or if the	
Deservel	interview is held in English.	
Research Themes	Rare or hereditary cancers molecular determinants of carcinogenesis: identification and functional	
Information	characterization of genomic variants predictive of susceptibility, prognosis and response to therapy. Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be	
	University Professors or recognized experts in the field. Supporters will take care of sending their approval	
on references	letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina	
relefences	Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: <u>alessio.nencioni@unige.it</u> ,	
	ricercadimi@unige.it, to Prof. Paola Ghiorzo e-mail: paola.ghiorzo@unige.it and Prof. Federica Grillo e-mail:	
	federica.grillo@unige.it	
	Within the application form, applicants will have to specify in detail name, surname and affiliation of the	
	reference tutors	
Foreign	English	
Languages		
Further	Docenti di riferimento per l'indirizzo in oggetto:	
Information	Prof.sssa Paola Ghiorzo <u>paola.ghiorzo @unige.it</u>	
	Prof.ssa Federica Grillo federica.grillo@unige.it	
	Totassur outriou Ormo redoridu.grino e unigent	

Course: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum GERONTOLOGY, NUTRITION, AND ANTI-AGING MEDICINE (CODE 9262)

Course Coor	dinator: Nencioni Alessio
	f Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)
Places: 2-G	
	inded by Università degli Studi di Genova; the annual gross amount of the grant, including social security
	e paid by the recipient, is € 16.500,00
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
assessment	
procedure	
Interview	22.7.2022 – 9:00 am (remote interview)
Exam	Remote interview: during the interview, the candidate will be evaluated with respect to the following criteria:
Syllabus	- Knowledge of the research topics
	- Motivation
	- Logical thinking - Ability to carry out an independent project
	- Potential for excellence and leadership qualities
	- Ability to work in a team
	- Discussion of the presented project
	Knowledge of the English language will be assessed through a short reading and translation test or if the
	interview is held in English.
Research	-The biochemistry of aging: regulation of i) autophagy, ii) ICF-1 signaling, iii) intracellular NAD, iv)
Themes	sirtuins, v) response to oxidative stress.
litenco	-Physiopathology of frailty in the elderly.
	-Aging and tumors: biology, main clinical problems in treatment, geriatric profiling of the elderly affected by
	cancer.
	-Caloric restriction and fasting as strategies for the promotion of longevity and for the treatment of diseases:
	biological rationale and clinical evidence.
	-The personalization of treatment of senior patients in the medical or surgical setting
Information	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be
on	University Professors or recognized experts in the field. Supporters will take care of sending their approval
references	letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina
	Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: alessio.nencioni@unige.it,
	ricercadimi@unige.it and to Prof. Fiammetta Monacellie-mail: fiammetta.monacelli@unige.it, Prof.ssa Livia
	Pisciotta <u>livia.pisciotta@unige.it</u>
	Within the application form, applicants will have to specify in detail name, surname and affiliation of the
	reference tutors.
Foreign	English
Languages	
Further	Reference professors:
Information	Prof. Alessio Nencioni <u>alessio.nencioni@unige.it</u>
	Prof.ssa Fiammetta Monacelli fiammetta.moncelli@unige.it
	Prof.ssa Livia Pisciotta <u>livia.pisciotta@unige.it</u>

Curriculum: DISEASES OF THE DIGESTIVE SYSTEM AND OF THE LIVER (CODE 9264)

Course Coordin	ator: Nencioni Alessio
Department of In	ternal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)
Places: 2-Gran	ts: 1 (*)
	d within D.M. 351/2022 (Azione Dottorati di ricerca PNRR), under condition to the approval of Ministerial ual gross amount of the grant, including social security expenses to be paid by the recipient, is \in 16.500,00.
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
assessment	
procedure	
Interview	22.7.2022 – 9:00 am (remote interview)
Exam Syllabus	Remote interview: during the interview, the candidate will be evaluated with respect to the following criteria: - Knowledge of the research topics - Motivation - Logical thinking
	 Ability to carry out an independent project Potential for excellence and leadership qualities Ability to work in a team Discussion of the presented project Knowledge of the English language will be assessed through a short reading and translation test or if the interview is held in English.
Research	- Eosinophilic Esophagitis and innate immunity: evaluation of pathophysiological mechanisms as a guide to
Themes	 potential treatment Use of Artificial Intelligence-assisted endoscopy in the diagnosis of precancerous lesions of the colon. Rehabilitation of the edentulous patient using prostheses on implants with different loading protocols (research theme for grant funded within D.M. 351/2022) Peri-implant tissue diseases and prognostic factors predicting implant success (research theme for grant funded within D.M. 351/2022) Peri-implant pathology (research theme for grant funded within D.M. 351/2022) The rehabilitation of the atrophic maxilla (research theme for grant funded within D.M. 351/2022) Maintenance and follow-up of implant rehabilitation (research theme for grant funded within D.M. 351/2022)
Information on	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be
references	University Professors or recognized experts in the field. Supporters will take care of sending their approval letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: <u>alessio.nencioni@unige.it</u> , ricercadimi@unige.it, to Prof. Edoardo G. Giannini e-mail: <u>edoardo.giannini@unige.it</u> and Prof. Maria Menini e-mail: <u>maria.menini@unige.it</u> Within the application form, applicants will have to specify in detail name, surname and affiliation of the reference tutors
Foreign	English
Languages	
Further	Reference professors:
Information	Prof. Edoardo G. Giannini
	e-mail: <u>edoardo.giannini@unige.it</u>
	Prof. ssa Maria Menini
	e-mail: maria.menini@unige.it

Course: HAEMATO-ONCOLOGY AND CLINICAL-TRANSLATIONAL INTERNAL MEDICINE

Curriculum: TRANSLATIONAL ONCOLOGY (CODE 9265)

Course Coordin	ator: Nencioni Alessio
Department of Ir	nternal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche – DIMI)
Places: 2-Gran	
	ed by Università degli Studi di Genova, the annual gross amount of the grant, including social security
	aid by the recipient, is € 16.500,00
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
assessment	
procedure	
Interview	21.7.2022 – 9:00 am (remote interview)
Exam Syllabus	- Knowledge of the research topics
	- Motivation
	- Logical thinking
	- Ability to carry out an independent project
	- Potential for excellence and leadership qualities
	- Ability to work in a team
	- Discussion of the presented project
	Knowledge of the English language will be assessed through a short reading and translation test or if the
	interview is held in English.
Research	- Monitoring of solid neoplasms by analysis of circulating nucleic acids.
Themes	- Study of the molecular factors that are prognostic and predictive of response in solid neoplasms.
	- Preclinical studies of associations between new antineoplastic drugs.
	- Pre-clinical and clinical trials in translational oncology.
	- Innovative therapeutic approaches in solid tumors and haematological neoplasms.
	- Tumor microenvironment and immune response to tumors.
	- Study of the molecular and pathogenetic aspects of cardio-toxicity from antiblastic drugs.
	- Study of the interactions between tumor cells and the immune system through systems biology
	approaches.
	- Identification of factors that are predictive of response to immunotherapy through immunogenomic
	approaches
Information on	Applicants are required to indicate 1 to 3 supporters to their application. Those supporters will have to be
references	University Professors or recognized experts in the field. Supporters will take care of sending their approval
	letters, within the term, to the Responsible of the PhD Course Prof. Alessio Nencioni, Dip. Di Medicina
	Interna DIMI, viale Benedetto XV n.6, (16132 Genova) e-mail: alessio.nencioni@unige.it,
	ricercadimi@unige.it, to Prof. Alberto Ballestrero, e-mail: aballestrero@unige.it and
	Prof. Lucia Del Mastro, e-mail: lucia.delmastro@unige.it
	Within the application form, applicants will have to specify in detail name, surname and affiliation of the
	reference tutors
Foreign	English
Languages	
Further	Reference Professors:
Information	Prof Alberto Ballestrero, e-mail: aballestrero@unige.it
	Prof.ssa Lucia Del Mastro, e-mail: <u>lucia.delmastro@unige.it</u>

Course: PHYSICS AND NANOS CIENCES In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: PHYSICS (CODE 9267)

Course Coordinator: Ferrar	ndo Riccardo	
Department of Physics (Dipartimento di Fisica – DIFI)		
Places: 16– Grants: 16 (*)		
(*) 7 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00		
(*) 2 grants funded by Istituto Nazionale di Fisica Nucleare (INFN), the annual gross amount of the grant, in cluding social security expenses to be paid by the recipient, is \notin 16.500,00		
(*) 1 grant funded by Istituto Nazionale di Astrofisica (INAF), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 16.500,00		
(*) 3 grants funded by Istituto Italiano di Tecnologia (IIT); the annual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 16.500,00		
(*) 1 grant funded by the D	epartment of Physics (Dipartimento di Fisica – DIFI); the annual gross amount of the grant, enses to be paid by the recipient, is $\notin 16.500,00$	
(*) 1 grant funded within D.1 funding; the annual gross am (*) 1 grant cofunded by Dipa	M. 351/2022 (Azione Dottorati di ricerca PNRR), under condition to the approval of Ministerial ount of the grant, including social security expenses to be paid by the recipient, is \in 16.500,00. Intimento di Fisica (DIFI) and Osservatorio Gravitazionale Europeo (EGO), the annual gross	
	is social security expenses to be paid by the recipient, is $\in 16.500,00$ (°)	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
Interview	19.07.2022 - 8:30 am at the Department of Physics (Dipartimento di Fisica - DIFI), via	
	Dodecaneso 33, Genova.	
	If a candidate has been admitted to the interview but cannot reach in time the place of the exam, the option of a video conferencing interview is available. To request this option it is	
	neces sary to send an e-mail by 12.07.2022 to <u>phd@fisica.unige.it</u> . The details about the connection will be in the reply to the e-mail request.	
Further information on	Each candidate must submit a description of the research project he/she intends to carry out	
how to present	during the three years of the PhD course. The project must be written in English. A maximum	
qualifications/publications	length of 6000 characters including spaces is allowed.	
Exam Syllabus	- Discussion about the qualification of the candidate.	
	- Discussion of the Master's thesis.	
	 Presentation and discussion of the proposed research project. Interview on basic physics topics (general physics, modern physics). 	
	- Verification of knowledge of the English language.	
Research Themes	The research lines at DIFI include various aspects of Physics, among which	
	- Theoretical and Experimental Physics of Fundamental Interactions	
	- Theoretical and Experimental Physics of Condensed Matter	
	- Astronomy and Astrophysics - Physics Applied to the Environment, to Biology and Medicine	
	Research topic of the scholarship funded by DIFI:	
	- In silico models of multicomponent theranostic nanoparticles.	
	The PhD fellowship, granted by the MIUR PRIN project MITHoS, will be devoted to the	
	development of an in silico model of a multicomponent theranostic nanoparticle. The	
	candidate will work under the supervision of the local PI (Giulia Rossi, UniGE) and in	
	collaboration with all project partners (PoliTO, UniTO, UniMI, IPCF/CNR) to the	
	development of a coarse-grained model of a functionalized ZnO nanoparticle embedded in an extracellular vesicle, for the simulation of its stimuli-responsive drug uptake and release.	
	Contact: Giulia Rossi - <u>rossig@fisica.unige.it</u>	
	Research topics of the scholarships funded by IIT:	
	- Modelling dynamics in non-collinear magnets	
	Non-collinearity of spins leads to the anharmonic terms in magnon Hamiltonian. Additionally,	
	non-collinear spin textures have soft collective modes that may be manipulated in experiments	
	and may contribute to thermal transport. This project aims to investigate these as pects and address recent experimental data.	
	- Title: Magnetoelectric coupling from first principles	
	Interactions between spins and ionic displacements play an important role in response of	
	magnetic materials to light and electric fields. Ionic displacements modify spin interactions,	

	thus potentially altering the magnetic structure. The project aims to compute such spin-lattice interactions from first principles electron-phonon coupling. - Title: Modelling dynamics in materials with complexorders Recent advances enabled experiments on materials at the natural timescale of their excitations. Significant efforts are focused on manipulating orders in magnetic and ferroelectric materials. We will use methods of theoretical and computational condensed matter theory to study ordered materials and address outstanding puzzles in experimental data on ultrafast phase transitions. Contact: Sergey Artyukhin - <u>sergey.artyukhin@iit.it, www.iit.it/phd</u> Research theme for grant funded within D.M. 351/2022 (Azione Dottorati di ricerca PNRR): - Title: Supported ultra-small metal clusters for catalytic reactions. Metal nanoclusters on oxide supports are close to the optimal limit of size/activity ratio in heterogenous catalysis. Downsizing to the sub-nano dimension allows to save precious material. Nanosized clusters allow moreover to enhance the selectivity of the catalytic reaction. The aim of this PhD project is to study experimentally the growth, aggregation, chemical nature and reactivity of sub-nanometric metal clusters deposited on ultrathin MgO/Ag(001) films. Both spectroscopic and microscopic surface scienc etechniques will be employed to investigate the chemistry and the morphology of the systems, respectively. Contact: Mario Rocca – <u>rocca@fisica.unige.it</u>
Information on references	Candidates must choose up to three referees to support their application. These contacts must be university professors or experts in the field. It is preferable that at least one contact belongs to the University of Genoa or to the affiliated research bodies (CNR/INFN/IIT). The referents will be responsible for sending the reference letters, preferably written in English, with in the deadline of the call. The letters must be addressed to the attention of the course coord in at or Prof. Riccardo Ferrando to the e-mail address: phd@fisica.unige.it. The subject of the e-mail must be: PHD REFERENCE LETTER – PHYSICS.
Foreign Languages	Excellent knowledge of both spoken and written English. A very basic knowledge of Italian is desirable.

(°) 1 grant added following the agreement dated 5.5.2022 and the decree of the Director of DIFI dated 7.06.2022

Course: PHYSICS AND NANOS CIENCES In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: BIO-NANOS CIENCE (CODE 9266)

Course Coordinator: Ferrar	do Riccardo
Department of Physics (Dipa	
Places: 5– Grants: 5 (*)	ninento di lisica – Di 1)
	o Italiano di Tecnologia (IIT); the annual gross amount of the grant, including social security
expenses to be paid by the re	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	QUALITICATIONS/TODEICATIONS AND INTERVIEW
procedure c	
Interview	19.07.2022 - 8:30 am at the Department of Physics (Dipartimento di Fisica - DIFI), via
	Dodecaneso 33, Genova.
	If a candidate has been admitted to the interview but cannot reach in time the place of the
	exam, the option of a video conferencing interview is available. To request this option it is
	necessary to send an e-mail by 28/06/2022 to phd@fisica.unige.it
	The details about the connection will be in the reply to the e-mail request.
Further information on	Each candidate must submit a description of the research project he/she intends to carry out
how to present	during the three years of the PhD course. The project must be written in English. A maximum
qualifications/publications	length of 6000 characters including spaces is allowed.
Exam Syllabus	- Discussion about the qualification of the candidate.
	- Discussion of the Master's thesis.
	- Presentation and discussion of the proposed research project.
	- Interview on basic physics topics (general physics, modern physics).
Research Themes	 Verification of knowledge of the English language. 1. Development of a Multimodal Optical MIcroscopy Image Correlation Sensing - MOMIX
Research Themes	(tm) — architecture.
	It is a super resolution microscope to study cellular systems at the nanoscale endowed with an
	innovative quantitative imaging approach for biophysics and bioengineering. Ideal candidates
	hold a Master Degree in Physics, Engineering, Computer Science.
	2. Label-free optical micros copy towards nanoscale biophysics applications.
	The project deals with the realization of label free optical modules, incorporating circular
	intensity differential scattering and second-harmonic generated signals. Case studies:
	molecular interactions in single cells, cellular spehroids and tissues.
	Ideal candidates hold a Master Degree in Physics, Engineering, Computer Science.
	Contact for 1 and 2: Alberto Diaspro - diaspro@fisica.unige.it
	3. Machine learning and large datasets for advanced nanostructure characterization
	The project concerns next generation devices for solar energy conversion and storage, with
	emphasis on data analysis. It focuses on bringing together nanostructures characterization by
	advanced optics and electron microscopy, with an eye on large datasets processed through
	machine learning. Contact: Ilka Kriegel - <u>ilka kriegel@iit.it</u>
	Contact. Inta Kneger - <u>Inta.kneger@int.n</u>
	4. Superlattices and quantum confinement in 2D materials via substrate effects.
	The candidate will study quantum confinement and band structure engineering of carriers and
	excitons in 2D and van der Waals materials using a patterned gate substrate, which can
	achieve nanometer-level features thanks to a new fabrication process.
	Contact: Michele Tamagnone - <u>michele.tamagnone@iit.it</u>
	5. Ultrafast dynamics investigation of Excitons and Surface Plasmon Polaritons in strongly
	coupled regime.
	The successful candidate will fabricate and explore, via steady-state and ultrafast
	spectroscopies, novel quantum dot-based nanodevices for energy related applications.
	Contact: Andrea Toma – <u>andrea.toma@iit.it</u>
	More details at <u>www.iit.it/phd</u>

Information on references	Candidates must choose up to three referees to support their application. These contacts must be university professors or experts in the field. It is preferable that at least one contact belongs to the University of Genoa or to the affiliated research bodies (CNR/INFN/IIT). The referents will be responsible for sending the reference letters, preferably written in English, with in the deadline of the call. The letters must be addressed to the attention of the course coord in at or Prof. Riccardo Ferrando to the e-mail address: phd@fisica.unige.it. The subject of the e-mail must be: PHD REFERENCE LETTER – BIONANOSCIENCES.
Foreign Languages	Excellent knowledge of both spoken and written English. A very basic knowledge of Italian is desirable.

Course: CLINICAL AND EXPERIMENTAL IMMUNOLOGY (CODE 9269)

Course Coordinator: Sivor	i Simona
	l Medicine (Dipartimento di Medicina Sperimentale – DIMES)
Places: $9(^{\circ})$ – Grants: $6(^{*})$	
(*) 3 grants funded by Un expenses to be paid by the re	iversità degli Studi di Genova; the annual gross amount of the grant, including social security ecipient, is € 16.500,00
	R/DIMES (1 of which under DM351 and 1 under DM352); the annual gross amount of the grant, benses to be paid by the recipient, is $\in 16.500,00$
	M. $351/2022$ (Azione Dottorati di ricerca PNRR), under condition to the approval of Ministerial nount of the grant, including social security expenses to be paid by the recipient, is \in 16.500,00.
(*) 1 grant funded within D.	.M. 352/2022 (cofunded by Stark sarl), under condition to the approval of Ministerial funding; the grant, including social security expenses to be paid by the recipient, is \in 16.500,00.
(°) 1 position reserved to en	nployee by IRCCS Giannina Gaslini
(°) 1 position reserved to en	
(°) 1 position reserved to en	
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	July 27, 2022. The interview will take place at 9.00 am (Italian time) by videoconference on
	Microsoft Teams. Details will be provided to applicants via e-mail after the reg is tration closes. The candidate must have a reliable internet connection to allow the interview to take place.
Further information on	Candidates must submit:
how to present	- the pdf file of their Bachelor's and Master's degree and/or equivalents (BS, Master)
qualifications/publications	
	Immunology
	- the curriculum vitae et studiorum including all the already done technical scientific studies/activities pertinent to the doctoral program
	- the list and pdf files of scientific publications
	- certifications related to periods spent in research laboratories
	- up to 3 recommendation letters from university professors or recognized experts in the field
	supporting the candidate.
Exam Syllabus	Presentation and discussion of the submitted project proposal, evaluation of the candidate's preparation on basic and clinical immunology topics. Evaluation of English language skills by reading, translating and understanding part of a scientific article.
Research Themes	Analyses of NK cells in NSCLC patients undergoing immuno-checkpoint therapy and study of the
	mechanisms regulating NK function against NSCLC-derived cancer stemcells involved in bone metastatic process (<i>research theme for grantfunded within D.M. 351/2022 - Azione Dottorati di ricerca PNRR</i>)
	Development of an analytical, quantitative, rapid response system to support classical clinical and instrumental examinations, for immunophenotyping of inflamed tissues and the differential analysis of precancerous lesions in oral cancer and melanoma screening practices (<i>research theme for grant funded within D.M. 352/2022</i>)
	Identification of T lymphocytes specific for viral or tumor antigens, purified from biological samples from healthy subjects or patients, and generation/characterization of transgenic T lymphocytes expressing engineered TCR to produce cells potentially useful for the treatment of viral or neoplastic diseases (<i>research theme for the PhD position reserved to employee by ImmunoScape</i>).
	Analysis of the role of TREM2 in the progression of Alzheimer's disease and in the neuroinflammatory processes underlying this disease (<i>research theme for the PhD position reserved to employee by Biogen</i>).
	Identification of new biomarkers in high-risk neuroblastoma to improve stratification and follow- up, predict the response to immunotherapy and guide innovative therapeutic approaches (<i>research</i> <i>theme for the PhD position reserved to employee by IRCCS Giannina Gaslini</i>).
	Research themes for the remaining PhD positions: - Innate response and characterization of Innate Immunity cells (Natural Killer cells and ILCs) - Adaptive response and characterization of T lymphocytes - Autoimmunity - Cancer immunology

	- Immunology of infections
Information on references	The Candidates must choose up to three referees to endorse their candidature. The referees, chosen among university professors or recognized experts in the field, amust send the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to the Coordinator of the Doctoral Course, Prof. Simona Sivori, at the following address: dottorato.immunologia@unige.it The candidate must state in the application the name, status and current position of the referees chosen.
Foreign Languages	English
Further Information	Doctoral secretariat: Dr. Eva Baraldi - <u>dottorato.immunologia@unige.it</u>

Curriculum: COMPUTER SCIENCE (CODE 9270)

Course Coordinator: Delza		
	Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Roboticae Ingegneria dei Sistemi–DIBRIS)	
Places: 13– Grants: 13 (*)		
(*) 4 grants funded by Un	iversità degli Studi di Genova, the annual gross amount of the grant, including social security	
expenses to be paid by the r (*) 1 grant funded within D	ecipient, is € 16.500,00. .M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval	
of Ministerial funding; the a 16.500,00.	nnual gross amount of the grant, including social security expenses to be paid by the recipient, is \in	
(*) 8 grants funded within I	D.M. 352/2022 (cofunded by 1) Esaote, 2) Aitek, 3) Gter, 4) M3S Srl, 5) PSA Genoa Investments, 6)	
	ler condition to the approval of Ministerial funding; the annual gross amount of the grant, including be paid by the recipient, is $\in 16.500, 00.$ (°)	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	Interviews are scheduled on 2022/7/26 at 9.00 AM (CEST) at DIBRIS, via Dodecaneso 35,	
Interview		
	Genoa. The schedule of video conference interviews will be fixed according to the availability of the commission members.	
Further information on	Instructions and guidelines to prepare a research project are available at the URL	
how to present	http://phd.dibris.unige.it/csse/index.php/admission-procedure	
qualifications/publications		
Exam Syllabus	The comparative procedure consists of	
2	- an assessment of the candidate qualifications	
	- an interview to verify background and knowledge of the candidate as well as motivations and	
	goals of the research proposal submitted with the application.	
Research Themes	The research areas of the Computer Science Curriculum	
Research menes	http://phd.dibris.unige.it/csse/ are:	
	-Artificial intelligence and Multi-agent Systems	
	-Data Science and Engineering	
	-Secure and Reliable Systems	
	-Human-Computer Interaction	
	-Science and Technology for Health	
	Research theme for grant funded within D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione): The digital transformation in the Public Administration.	
	Research themes for grants funded within D.M. 352/2022:	
	- Machine Learning for Ultrasound Imaging (Esaote)	
	- Virtual images for learning and testing of neural networks (Aitek)	
	- GNSS Positioning with low cost devices and GIS applications (Gter)	
	- Resilience, integration and efficiency of ICT systems in the rail transport domain (M3S srl)	
	- Cybersecurity and information management in maritime terminals (PSA Genoa Investments)	
	- Digital transformation of process management in the insurance appraisals domain (Teec)	
	- BigData and High Performance Computing Solutions in the Computing Continuum, Cloud -	
	Edge, and Digital Twin applications (Leonardo Spa) (°)	
	- Security and Resilience of Orchestration and Software Defined Networking and Computing	
	(SDN / SDC) technologies for certified applications in the Cloud and 5Gareas (Leonardo Spa) (°)	
	Other specific research projects are available at the URL:	
	http://phd.dibris.unige.it/csse/index.php/admission-procedure	
	We will also consider projects that fall within the research lines of the curriculum.	
Information on references	Candidates must select between one and three external references (academic researchers or experts	
	in the research area of the research proposal). Candidates must also indicate their names,	
	qualifications, and affiliations in the application form.	
	Furthermore, reference persons are required to send a recommendation letter for the candidate to the e-mail: <u>phd.compsci@dibris.unige.it</u> before the deadline of the application.	
	A terminate for the reference of latteria and its is the TDL.	
	A template for the reference letter is available at the URL:	
.	http://phd.dibris.unige.it/csse/index.php/admission-procedure	
Foreign Languages	English	
(°) grants added following th	e agreements dated 27.05.2022 and 30.05.2022	

(°) grants added following the agreements dated 27.05.2022 and 30.05.2022

Curriculum: SYSTEMS ENGINEERING (CODE 9271)

Course Coordinator: Delza	nno Giorgio
	eering, Robotics and Systems Engineering (Dipartimento di Informatica, Bioingegneria, Roboticae
Places: 8-Grants: 8 (*)	
(*) 2 grants funded by Un	iversità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the r	ecipient, is € 16.500,00.
(*) 6 grants funded within	n D.M. 352/2022 (cofunded by 1) Aitek, 2) Decathlon, 3) PSA Genoa Investments, 4) Rulex
Innovation Lab, 5) MyPas	s, 6) Tema srl, Territorio, Mobilità e Ambiente), under condition to the approval of Ministerial
funding; the annual gross ar	nount of the grant, including social security expenses to be paid by the recipient, is \in 16.500,00.
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Interviews are scheduled on 2022/07/26 at 9.00 AM (CEST) at DIBRIS, via Opera Pia 13, Genoa.
	The schedule of video conference interviews will be fixed according to the availability of the
	commission members.
Further information on	Instructions and guidelines to prepare a research project are available at the URL
how to present	http://phd.dibris.unige.it/csse/index.php/admission-procedure
qualifications/publications	
Exam Syllabus	The comparative procedure consists of
	- an assessment of the candidate qualifications
	- an interview to verify background and knowledge of the candidate as well as motivations and
	goals of the research proposal submitted with the application.
Research Themes	The research areas of the Systems Engineering Curriculum <u>http://phd.dibris.unige.it/csse/</u> are:
	Modelling of dynamic systems, Performance optimization schemes and algorithms, Design and
	development of regulation methods and schemes, Planning at different levels of decision making,
	Monitoring and supervision.
	Research themes for grants funded within D.M. 352/2022:
	- Mobility data analysis of TPS and MaaS users (Aitek)
	- Digital transformation in process magament (Decathlon)
	- Design of methods and tools for the optimal planning of maritime terminals processes (PSA
	Genoa Investments)
	- Optimization of multi-agent systems through Reinforcement Learning (Rulex Innovation Lab)
	- Digital and smart ticketing (MyPass)
	- Analysis, planning, integration and monitoring of mobility services: innovative models, methods and tools for the mobility of the future (Tema srl, Territorio, Mobilità e Ambiente)
	and tools for the mobility of the future (fema sh, femitorio, Mobilita e Ambiente)
	Other an apific reasonable projects are evailable at the UDL.
	Other specific research projects are available at the URL: http://phd.dibris.unige.it/csse/index.php/admission-procedure
	We will also consider projects that fall within the research lines of the curriculum
Information on references	Candidates must select between one and three external references (academic researchers or
information on references	experts in the research area of the research proposal). Candidates must also indicate their n a mes,
	qualifications, and affiliations in the application form.
	quanteuristis, and arrindronts in the approaction form.
	Furthermore, reference persons are required to send a recommendation letter for the candid at e to
	the e-mail: <u>phd.syseng@dibris.unige.it</u> before the deadline of the application.
	and a main proving outproving out
	A template for the reference letter is available at the URL:
	http://phd.dibris.unige.it/csse/index.php/admission-procedure
Foreign Languages	English
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Course: ENGINEERING OF MODELS, MACHINE AND SYSTEMS FOR ENERGY, ENVIRONMENT AND TRANSPORT

Curriculum: MACHINES AND SYSTEMS FOR ENERGY, ENVIRONMENT AND PROPULSION (CODE 9272)

Course Coordin	ator: Cianci Roberto
	lechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica,
	ionale e dei Trasporti – DIME)
Places: 3–Gran	
	ded by Università degli Studi di Genova, the annual gross amount of the grant, including social security
	aid by the recipient, is € 16.500,00
	ded by MIUR/ DIME, the gross annual amount of the scholarship is € 16.500,00 including social security
	arged to the scholarship recipient.
Comparative	QUALIFICATIONS/PUBLICATIONS
assessment	
procedure	
Research	The research topics of the Curriculum concern energy production and aeronautical propulsion. They have
Themes	experimental, numerical and theoretical nature and concern:
	1. Turbomachinery and combustors for power generation and aeronautical propulsion:
	 flow analysis in plant components and turbomachinery;
	• design of driving and operating turbomachinery;
	 unsteady aerodynamics of burners for turbogas plants;
	• mechanisms for generating aerodynamic noise in turbomachinery; - study of combustion processes.
	2. Internal combustion engines for automotive traction and ship propulsion:
	• analysis of road vehicle emissions and modeling of the diffusion of pollutants in the environment;
	• study of the functional characteristics of components of the intake and exhaust systems of automotive
	engines;
	• advanced turbocharging systems for automotive applications;
	• optimization of performance, consumption and polluting emissions of engines for road traction.
	3. Energy generation systems based on traditional and renewable primary sources:
	• analysis of the static and dynamic behavior of energy plants;
	• creation of simulators in simulated and real time;
	• analysis and optimization of complexand innovative systems for energy production.
	The topics covered present important connections with transport systems, with modeling aspects related to
	Mathematical Physics and numerical processing, with controls and signal processing.
Information on	Candidates must choose not less than one and not more than three referees to support their candidacy. on
references	references These referents must be university professors or experts in the subject. It will be the responsibility
r ener energ	of the contact persons to send the reference letters, within the deadline of the call, to:
	Prof. Andrea Cattanei
	DIME
	Via Montallegro 1
	16145 Genoa
	andrea.Cattanei@unige.it
Foreign	English language
Languages	
Further	For further information, please contact the PhD Coordinator Prof. Roberto Cianci for information
Information	roberto.cianci@unige.it, or Prof. Andrea Cattanei <u>cattanei@unige.it</u>

Course: ENGINEERING OF MODELS, MACHINE AND SYSTEMS FOR ENERGY, ENVIRONMENT AND TRANSPORT

Curriculum: MATHEMATICAL ENGINEERING AND SIMULATION (CODE 9273)

Compartive control control control of the server is a server in the server is the s	Course Coordin	ator: Cianci Roberto
Energetica, Gestionale e dei Trasporti – DIME) Places: 3 – Grants: 3 (*) (*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00; 1 Grant on D.M. 351 (*) 1 grant funded within D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. Comparative assessment procedure QUALIFICATIONS/PUBLICATIONS Research The following research topics are proposed within the curriculum: 1. Continuous and discrete mathematical models for the thermon-fluid dynamics of energy systems; fluid mechanics and related equations. Problems of acoustics and wave propagation in fluid and solid media using "analogous instruments". Metamaterials. The Dirac field in interaction. 2. Methods of development and analysis of discrete and continuous models for the simulation of systems. Numerical analysis tools and problems; development of simulators and simulator federations for c om plex systems. Definition of objectives, formalization, implementation solutions, integration, verification, validation, testing, accreditation and execution of real-time, fast-time and slow time models. 3. Physical-mathematical models with finite or infinite degrees of freedom, interaction field theory. Geometric and analysis techniques. Diffusion problems and resolution techniques. Environmental problems of public safety for the fight against terrorism. 4. Mechanics of solids. Numerical and control techniques. 5. Development of aggre		
Places: 3 - Grants: 3 (*) (*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00; 1 Grant on D.M. 351 (*) 1 grant funded within D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. Comparative assessment procedure Research The following research topics are proposed within the curriculum: 1. Continuous and discrete mathematical models for the thermo-fluid dynamics of energy systems; fluid mechanics and relate dequations. Problems of acoustics and wave propagation in fluid and solid media using "analogous instruments". Metanaterials. The Dirac field in interaction. 2. Methods of development and analysis of discrete and continuous models for the simulation of systems. Numerical analysis tools and problems; development of simulators and slout ime models. 3. Physical-mathematical models with finite or infinite degrees of freedom, interaction field theory. Geometric and analysis techniques. Diffusion problems and resolution techniques. Environmental problems of public safety for the fight against terrorism. 4. Mechanics of solids. Numerical and control techniques. 5. Development of simulators in virtual reality environments. Simulation applied to the logistics and transport sector for supply chain management for decision support. 5. Development of simulators in virtual reality en		
 (*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00; 1 Grant on D.M. 351 (*) 1 grant funded within D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. Comparative assessment procedure Research The following research topics are proposed within the curriculum: Continuous and discrete mathematical models for the thermo-fluid dynamics of energy systems; fluid mechanics and related equations. Problems of acoustics and wave propagation in fluid and solid media using "analogous instruments". Metamaterials. The Dirac field in interaction. Methods of development and analysis of discrete and continuous models for the simulation of systems. Numerical analysis tools and problems; development of simulators and simulator federations, for complex systems. Definition of objectives, formalization, implementation solutions, integration, verification, validation, testing, accreditation and execution of real-time, fast-time and slow time models. Physical-mathematical models with finite or infinite degrees of freedom, interaction field theory. Geometric and analysis techniques. Diffusion problems and resolution techniques. Environmental problems of publics afety for the fight against terrorism. Mechanics of Solids. Numerical and control techniques. Development of agregate and operational programming systems, realized through finite cap acity tools, with discrete event simulators in virtual reality environments. Simulation applied to the logistics and transport sector for supply chain management for decision support. Simulation appl		
expenses to be paid by the recipient, is € 16.500,00; 1 Grant on D.M. 351 (*) 1 grant funded within D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. Comparative assessment procedure QUALIFICATIONS/PUBLICATIONS Research Themes The following research topics are proposed within the curriculum: 1. Continuous and discrete mathematical models for the thermo-fluid dynamics of energy systems; fluid mechanics and related equations. Problems of acoustics and wave propagation in fluid and solid media using "analogous instruments". Metamaterials. The Dirac field in interaction. 2. Methods of development and analysis of discrete and continuous models for the simulation of systems. Numerical analysis tools and problems; development of simulators and simulator federations for complex systems. Definition of objectives, formalization, implementation solutions, integration, verification, validation, testing, accreditation and execution of real-time, fast-time and slow time models. 3. Physical-mathematical models with finite or infinite degrees of freedom, interaction field theory. Geometric and analysis techniques. Diffusion problems and resolution techniques. Environmental problems of solutions, with discrete event simulation of artificial intelligence techniques. 5. Development of aggregate and operational programming systems, realized through finite cap acit y tools, with discrete event simulators in virtual reality environments. Simulation applied to the logistics and transport sector for supply chain management for decision support.		
(*) 1 grant funded within D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. Comparative assessment procedure QUALIFICATIONS/PUBLICATIONS Research The following research topics are proposed within the curriculum: 1. Continuous and discrete mathematical models for the thermo-fluid dynamics of energy systems; fluid mechanics and related equations. Problems of acoustics and wave propagation in fluid and solid media using "analogous instruments". Metamaterials. The Dirac field in interaction. 2. Methods of development and analysis of discrete and continuous models for the simulation of systems. Numerical analysis tools and problems; development of simulators and simulator federations for c omplex systems. Definition of objectives, formalization, implementation solutions, integration, verification, validation, testing, accredition and execution of real-time, fast-time and slow time models. 3. Physical-mathematical models with finite or infinite degrees of freedom, interaction field theory. Geometric and analysis techniques. Diffusion problems and resolution techniques. Environmental problems of publics afety for the fight against terrorism. 4. Mechanics of solids. Numerical and control techniques. S. Development of aggregate and operational programming systems, realized through finite cap acity tools, with discrete event simulation techniques. Optimal state estimation for linear and nonlinear systems. 6. Development of aggregate and operational programming systems, realized through finite cap acity tools, with discrete eve		
of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00. Comparative QUALIFICATIONS/PUBLICATIONS Research The following research topics are proposed within the curriculum: 1. Continuous and discrete mathematical models for the thermo-fluid dynamics of energy systems; fluid mechanics and related equations. Problems of acoustics and wave propagation in fluid and solid media using "analogous instruments". Metamaterials. The Dirac field in interaction. 2. Methods of development and analysis of discrete and continuous models for the simulation of systems. Numerical analysis tools and problems; development of simulators and simulator federations for c omplex systems. Definition of objectives, formalization, implementation solutions, integration, verification, validation, testing, accreditation and execution of real-time, fast-time and slow time models. 3. Physical-mathematical models with finite or infinite degrees of freedom, interaction field theory. Geometric and analysis techniques. Diffusion problems and resolution techniques. Environmental problems of public safety for the fight against terrorism. 4. Mechanics of solids. Numerical and control techniques. 5. Development of aggregate and operational programming systems, realized through finite ca pacity tools, with discrete event simulation techniques. Optimal state estimation for linear and nonlinear systems. 6. Development of simulators in virtual reality environments. Simulation applied to the logistics and transport sector for supply chain management for decision support. 7. Simulation applied to the military, tactical and strategic sector. <th></th> <th></th>		
16.500,00. QUALIFICATIONS/PUBLICATIONS assessment procedure Research The following research topics are proposed within the curriculum: 1. Continuous and discrete mathematical models for the thermo-fluid dynamics of energy systems; fluid mechanics and related equations. Problems of acoustics and wave propagation in fluid and solid media using "analogous instruments". Metamaterials. The Dirac field in interaction. 2. Methods of development and analysis of discrete and continuous models for the simulation of systems. Numerical analysis tools and problems; development of simulators and simulator federations for c omplex systems. Definition of objectives, formalization, implementation solutions, integration, verification, validation, testing, accreditation and execution of real-time, fast-time and slow time models. 3. Physical-mathematical models with finite or infinite degrees of freedom, interaction field theory. Geometric and analysis techniques. Diffusion problems and resolution techniques. Environmental problems of public safety for the fight against terrorism. 4. Mechanics of solids. Numerical and control techniques. 5. Development of aggregate and operational programming systems, realized through finite cap acity tools, with discrete event simulation et artificial intelligence techniques. Supporting geometric methodolo gies for the development of simulators in virtual reality environments. Simulation applied to the logistics and transport sector for supply chain management for decision support. 7. Simulation applied to the military, tactical and strategic sector. In the admission application, candidates must indicate the name, qualification and place of		
Comparative assessment procedure QUALIFICATIONS/PUBLICATIONS Research Themes The following research topics are proposed within the curriculum: 1. Continuous and discrete mathematical models for the thermo-fluid dynamics of energy systems; fluid mechanics and related equations. Problems of acoustics and wave propagation in fluid and solid media using "analogous instruments". Metamaterials. The Dirac field in interaction. 2. Methods of development and analysis of discrete and continuous models for the simulation of systems. Numerical analysis tools and problems; development of simulators and simulator federations for complex systems. Definition of objectives, formalization, implementation solutions, integration, verification, validation, testing, accreditation and execution of real-time, fast-time and slow time models. 3. Physical-mathematical models with finite or infinite degrees of freedom, interaction field theory. Geometric and analysis techniques. Diffusion problems and resolution techniques. Environmental problems of public safety for the fight against terrorism. 4. Mechanics of solids. Numerical and control techniques. 5. Development of aggregate and operational programming systems, realized through finite capacity tools, with discrete event simulation techniques. Optimal state estimation for linear and nonlinear systems. 6. Development of simulators in virtual reality environments. Simulation applied to the logistics and transport sector for supply chain management for decision support. 7. Simulation applied to the military, tactical and strategic sector. Information on references In the admission application, candidates must indicate the name, qualification and place of employ ment o		
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Further For further information, please contact Prof. Patrizia Bagnerini: patrizia.bagnerini@unige.it	0	English
Information		For further information, please contact Prof. Patrizia Bagnerini: <u>patrizia.bagnerini@unige.it</u>
	Information	

Curriculum: ECONOMICS AND MANAGEMENT (CODE 9274)

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Course Coordinator: Bers	
Department of Mechanica Energetica, Gestionale e dei	l, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, i Trasporti – DIME)
Places: 2–Grants: 2 (*)	
	ersità degli Studi di Genova, the annual gross amount of the grant, including social security expenses
to be paid by the recipient, i	
(*) 1 grant funded within D	.M. 352/2022 (cofunded by BF Partners), under condition to the approval of Ministerial funding; the
	grant, including social security expenses to be paid by the recipient, is € 16.500,00.
Comparative assessment procedure	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Interview	19/07/2022 10:00 am at the Department of Mechanical, Energy, Management and Transport
	Engineering (DIME), MEC section, via All'Opera Pia 15 / a, Genoa.
	The interview can take place on a motivated request also electronically (video conference via
	Skype) by contacting in time the resume contact person, Prof. Silvano Cincotti
	(silvano.cincotti@unige.it) and for information the coordinator of the doctorate Prof. Giovanni
	Berselli (giovanni.berselli@unige.it) specifying the candidate's name and surname, Skype add ress
	and curriculum vitae to which it refers (EG) (EM) (°)
Further information on	Further information on Qualifications/publications must contain a detailed explanation and the
how to present	planning of the development of a possible research project concerning one of the syllabuses of the
qualifications/publications	field Economy and Management Economics, Finance, Management (EM.1, EM.2, EM3), in ord er
quantications/publications	to evaluate the candidate's ability to organize and carry outresearch.
	If admitted to the doctoral course, the candidate will carry out his/her activity within the syllabus
	chosen for his/her project, but not necessarily on the specific activities described in the actual
	project submitted. The research project (min. 8,000 max. 16,000 strokes including spaces and
	punctuation) must comprise:
	- the research title;
	- field state of the art and relative bibliographic references;
	- objectives and expected results.
	In addition to the documentation that must be submitted by means of the online procedure, the
	following information, if present, will also be taken into consideration:
	- the title of the thesis dissertation of the Specialist/II level Degree/Master of Science/Master of
	Engineering together with a brief description (max. 4,000 strokes including spaces and
	punctuation);
	- a list of the exams done with the number of credits, marks and syllabuses (max 500 strokes
	including spaces and punctuation for each course);
	- any other qualifications/publications relevant to the application and scientific activity carried out;
	- a letter that states aptitude and motivations and the advancement expectations of the candid ate
	submitting the application.
Exam Syllabus	The interview will focus on the discussion of the project, the qualifications presented by the
	candidate and on all the specific themes bound to the Economy and Management syllabus.
Research Themes	The curriculum in Economics and Management (EM) offers to candidates advanced training and
	preparation to conduct research at the intersection of economics, management and finance. The EM
	curriculumaims at developing professionals who are able to carry out, in these fields, advanced
	research in universities and international research institutions, manufacturing and service
	companies, credit and finance sectors, policy maker institutions, regulatory authorities and other
	public bodies. Research questions address fundamental and actual themes with emphasis on
	sustainability, resilience, responsibility, change and transformation in the society. The Ph.D.
	programme allows the candidate to develop a sound methodological background and
	multidisciplinary knowledge by developing qualitative, quantitative and computational approaches
	in economics, management and finance. Three main research Areas are addressed.
	EM1 Economics
	The Economics Area uses economic theory and models to study issues arising in the industrial,
	financial, innovation and business domains at both national and international level with the
	emphasis on quantitative methods for microeconomic, macroeconomic and policy effectiveness
	analysis. Research activities are conducted at multiple levels of analysis, including households,
	firms, sectors, banks, countries, policy makers and regulatory bodies. Specific attention is paid to
	the foundations of policy design and coordination, of economic decisions and of managerial
	processes. Theories and models are empirically based and are tested using multiple methodologies.
	Quantitative methods are used for the purposes of testing theories and of developing models for the
	study of economic systems and specific attention is dedicated to agent-based computational modes
	and computational experiments on artificial economies. The goal is to determine the regularities

	and the emerging properties in economic systems and to evaluate the impacts of policy and
	regulatory measures as the result of the behaviors and of the interactions of heterogeneous
	bounded-rational economic agents. The Economics Area develops skills that provide access to
	work opportunities in the credit and financial sectors, in governments and international organizations, and in academia.
	EM2 Finance
	The Finance Area focusses on a problem-solving perspective to the emerging challenges associated
	with finance. The research activities use computational econometrics, data mining and an aly tics,
	learning and dynamic stochastic non-linear models of financial and economic data in a non-
	Gaussian environment and in the presence of extreme events. The objectives are to study and to
	model financial assets, to develop statistical algorithmic arbitrage strategies, to evaluate and
	mitigate systemic, systematic and operational risks in financial markets, to use quantitative
	methods for portfolio management and hedging solutions, to analyze technology's impact on asset
	pricing and behavioral finance. The Finance Area develops skills that provide access to work
	opportunities in financial industries, in the private and public sectors and in academic fields.
	The Finance Area pays a specific emphasis on preparing PhD students to become skilled and
	diligent researchers who bring a problem-solving perspective to the emerging challenges associated
	with finance. The research activities use computational econometrics, data mining and an alytics,
	computational intelligence and machine learning, dynamic stochastic non-linear models of
	financial and economic data in a non-Gaussian environment and in the presence of extreme events.
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	technology's impact on asset pricing and behavioral finance. The Finance Area develops skills that
	provide access to work opportunities in financial industries, in the private and public sectors and in
	academic fields. ^(°)
	EM 3 Management
	The Management Area focuses on the study of firms, financial institutions and Public
	Administrations from an innovation, knowledge management, strategic or organizational point of
	view. Particular emphasis is paid to the study of the complex interactions among strategy,
	management and technology and to the analysis of business processes both internal and external to
	firms, institutions and administrations. Attentions is oriented towards understanding the change
	management processes required when introducing strategic, organizational, social or technological
	innovations with the goal of developing both innovative theoretical models and practical tools and
	methodologies to be applied and tested in real cases. The research topics are studied across
	industries and regions, also by comparing best practices and models developed in different
	countries. Research activities in this area are based on qualitative and quantitative methodologies,
	including case studies, action research, surveys, modelling and simulation. The Management A rea
	develops skills that provide access to work opportunities in both private industries and Public
	Administrations, in national and international organizations, and in academia.
	Research theme for grant funded within D.M. 352/2022: Digital Innovation in the Retail Sector. (°)
Information on references	Candidates must choose not less than one and not more than three referees to support their
	candidature. These referees must be university professors or experts in the subject and it will be
	their concern to send reference letters, within the deadline of the public notice, to the Coord inator
	Prof. Giovanni Berselli at the following address giovanni.berselli@unige.it and to the contact
	person for the curriculum EM, Prof. Silvano Cincotti, at silvano.cincotti@unige.it The name, status
	and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English
Further Information	Coordinator of the PhD IMEG course:
	Prof. Giovanni Berselli
	DIME/MEC
	via all'Opera Pia 15/A 16145 Genova
	(+39) 0103352839
	<u>giovanni.berselli@unige.it</u>
	Contact person for the EM curriculum:
	Prof. Silvano Cincotti
	DIME/DOGE
	via all'Opera Pia 15 16145 Genova
	(+39) 0103352080
	silvano.cincotti@unige.it
(°) Information undated fallo	wing communication of the course coordinator dated 24.06.2022

(°) Information updated following communication of the course coordinator dated 24.06.2022

Curriculum: TECHNICAL PHYSICS (CODE 9275)

Course Coordinator: Bers	elli Giovanni	
	Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica,	
Energetica, Gestionale e de		
Places: 2–Grants: 2 (*) (°		
	versità degli Studi di Genova, the annual gross amount of the grant, including social security	
expenses to be paid by the re		
	M. 352/2022 (cofunded by Germina S.r.l.), under condition to the approval of Ministerial funding;	
	he grant, including social security expenses to be paid by the recipient, is $\in 16.500,00$. (°)	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	19/07/2022 10:00	
	10:00 am at the Department of Mechanical, Energy, Management and Transport Engineering	
	(DIME), MEC section, via All'Opera Pia 15 / a, Genoa.	
	The interview can take place on a motivated request also electronically (vid eo conference via	
	Skype) by contacting in time the resume contact person, Prof. Corrado Schenone	
	(corrado.schenone@unige.it) and for information the coordinator of the doctorate Prof. Giovanni	
	Berselli (giovanni.berselli@unige.it) specifying the candidate's name and surname, Skype	
	address and curriculum vitae to which it refers (FT)	
Further information on	Further information on Qualifications/publications must contain a detailed explanation and the	
how to present	planning of the development of a possible research project concerning one of the syllabuses of	
qualifications/publications	the field Technical Physics (FT.1, FT.2, FT.3), in order to evaluate the candidate's ability to	
	organize and carry out research.	
	If admitted to the doctoral course, the candidate will carry out his/her activity within the syllabus	
	chosen for his/her project, but not necessarily on the specific activities described in the actual	
	project submitted.	
Exam Syllabus	The interview will focus on the discussion of the project, the qualifications presented by the	
	candidate and on all the specific themes bound to the Technical Physics curriculum(FT).	
Research Themes	The FT syllabus – Technical Physics – of the IMEG Doctoral Course resumes the historical	
	course of the Doctoral Courses in Technical Physics (first year of activation 1992).	
	It's objective is to train young researchers capable of developping theoretical experimental	
	research in the thermodynamic, thermofluid dynamic and transmission of heat sectors; of dealing	
	with research in the energy sector, by means of a suitable methodological approach to the thermodynamic issue; of analysing thermal, acoustic and lighting phenomenawh ich concur in	
	defining both the conditions of environmental well-being, of environmental impact and	
	consequent control possibilities.	
	The FT curriculum develops research within the following fields:	
	FT.1 Physics of buildings and environmental control	
	- Components, heating and air-conditioning plants	
	- Physics of buildings and environmental control	
	- Lighting techniques and applied acoustics.	
	The issues are developped according to the traditional approach of Environmental Technical	
	Physics.	
	FT.2 Energetics, Applied Thermofluid dynamics and refrigeration	
	- Thermodynamic analysis of energy systems	
	- Energy sources, vectors and rational consumption of energy	
	- Environmental impact of energy systems	
	- refrigeration and heat pump psystems	
	- Single and multiphase thermofluid dynamics. Thermophysical properties of materials.	
	Techniques to increase the efficiency of the energy processes and thermofluid dynamic exchange	
	mechanisms.	
	The thematics are developped according to the traditional approach of Industrial Technical	
	Physics.	
	FT.3 Nuclear Plants FT.4 (research there grant funded within D.M. $352/2022$ as funded by Carmina S r 1.) Dynamia	
	FT 4 (research theme grant funded within D.M. 352/2022 cofunded by Germina S.r.l.) Dynamic	
	energy modelling and experimental analysis finalized to energy saving and environmental	
	sustainability in precision agriculture: the case of adaptive greenhouses (°) The thematics which characterise Nuclear Plants, within the limits of the available sources, are	
	added to the first two fields, for the innovative application of the functioning principles of	
	nuclear fission plants for the production of electricity and hydrogen and the solution to advanced	
	thermohydraulic problems of the core of thermal and fast fission reactors.	
Information on references	Candidates must choose not less than one and not more than three referees to support their	
united on references	cancelences must encode not less than one and not more than three referees to support their	

	candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator Prof. Giovanni Berselli at the following address <u>giovanni.berselli@unige.it</u> and to the contact person for the curriculumFT, Prof. Corrado Schenone(<u>corrado.schenone@unige.it</u>). The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English
Further Information	Coordinator of the PhD IMEG course: Prof. Giovanni Berselli DIME/MEC Via all'Opera Pia 15/A 16145 Genova (+39) 0103352839 giovanni.berselli@unige.it Contact person for the FT curriculum: Prof. Corrado Schenone DIME/TEC Via all'Opera Pia 15/A
	16145 Genova (+39) 0103352309 corrado.schenone@unige.it g the agreement dated 14.06 2022

(°) 1 grant added following the agreement dated 14.06.2022

Curriculum: MECHANICS, MEASUREMENTS AND MATERIALS (CODE 9276)

Course Coordinator: Bers	elli Giovanni
Department of Mechanical, Energetica, Gestionale e des	Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, Trasporti – DIME)
Places: 5 (°)(°°)– Grants: 3	
	versità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the re	
(*) 1 grant funded by Istitute	o Italiano di Tecnologia (IIT), the annual gross amount of the grant, including social security
expenses to be paid by the re	
	M. 352/2022 (cofunded by Ansaldo Spa), under condition to the approval of Ministerial funding;
	he grant, including social security expenses to be paid by the recipient, is $\notin 16.500,00$. (°) oyees of Danieli Telerobot Labs Srl (°°)
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	QUALITICATIONS/TODEICATIONS AND INTERVIEW
Interview	19/07/2022 10:00
Inter view	10:00 am at the Department of Mechanical, Energy, Management and Transport Engineering
	(DIME), MEC section, via All'Opera Pia 15 / a, Genoa.
	The interview can take place on a motivated request also electronically (video conference via
	Skype) by contacting in time the resume contact person & coordinator of the doctorate Prof.
	Giovanni Berselli (giovanni berselli@unige.it) specifying the candidate 's name and surname,
	Skype address and curriculum vitae to which it refers (MMM)
Further information on	The qualifications/publications must contain a detailed explanation and the development plan of
how to present	how to present a possible research project, quoting the Robotics and Mechatronics (RM)
qualifications/publications	syllabus, and the field qualifications/pubblications it refers to, in order to evaluate the candidate's
1	ability to organize and carry out research.
	If admitted to the doctoral course, the candidate will generally carry out his/her activity within
	the syllabus chosen for his/her project, but not necessarily on the specific activities described and
	planned in the actual project.
Exam Syllabus	The interview will focus on the discussion of the project, the qualifications presented by the
	candidate and on all the specific themes bound to the Mechanics, Measurements And Materials curriculum (MMM).
Research Themes	The Mechanics, Measurements and Materials (MMM) syllabus focuses on research
	themestypical of the Macrosectors it refers to. In particular the research themes suggested
	concern the functional and constructive design sector, CAD, CAE, PLM, PDM, additive
	manufacturing (polymer-based metals and composites (machine and material methods in
	combination), the mechanic behaviour of materials, materials and implants for medical, industrial
	and marin applications, calculus modelling and applications of composite components als o for
	orthotics and biomedical applications, environmental compatibility and recycling, mechanical
	and mechatronic systems, motor vehicles, railway vehicles, airplanes, mechanical automation,
	working, raising and transport systems, lubrification, vibrations and noise, sound quality,
	experimental methods, diagnostics and qualifying of machines and components, monitoring and
	maintenance, reliability, reverse logistics. Development of experimental and numerical techniques for analysis and monitoring of rotor
	components in turbomachinery (research theme grant funded within D.M. 352/2022 cofunded by
	Ansaldo Spa) (°)
	Development of CAD/CAE tools for the opimal design of robotic cells; Development of novel
	CAD/CAE tools for the creation of Digital Twin of Complex Manufacturing Processes of High
	Performance (research themes for places reserved to employees of Danieli Telerobot Labs Srl
Information on references	Candidates must choose not less than one and not more than three referees to support their
	candidature. These referees must be university professors or experts in the subject and it will be
	their concern to send reference letters, within the deadline of the public notice, to the Coordinator
	Prof. Giovanni Berselli, at <u>giovanni.berselli@unige.it</u> .
	The name, status and service place of the referees chosen by the candidates must be stated in
	their applications.
Foreign Languages	English

Further Information	Coordinator of the PhD IMEG course:
	Prof. Giovanni Berselli
	DIME/MEC
	via all'Opera Pia 15/A
	16145 Genova
	(+39) 0103352839
	giovanni.berselli@unige.it
	Contact person for the MMM curriculum:
	Prof. Giovanni Berselli
	DIME/MEC
	via all'Opera Pia 15/A
	16145 Genova
	(+39) 0103352309
	Giovanni.berselli@unige.it
(°) 1 grant added followin	g the agreement dated 14.06.2022

(°°) places added following the agreement dated 21.06.2022

Curriculum: ROBOTICS AND MECHATRONICS (CODE 9277)

Course Coordinator: Berselli Giovanni		
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica,		
Energetica, Gestionale e dei Trasporti – DIME)		
Places: 2–Grants: 2 (*)		
(*) 1 grant funded by MUR	/DIME, the annual gross amount of the grant, including social security expenses to be paid by the	
recipient, is € 16.500,00,00		
(*) 1 grant funded within D.	M. 352/2022 (cofunded by Esaote), under condition to the approval of Ministerial funding; the	
annual gross amount of the	grant, including social security expenses to be paid by the recipient, is \in 16.500,00.	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	19/07/2022 10:00	
	10:00 am at the Department of Mechanical, Energy, Management and Transport Engineering	
	(DIME), MEC section, via All'Opera Pia 15 / a, Genoa.	
	The interview can take place on a motivated request also electronically (video conference via	
	Skype) by contacting in time the resume contact person, Prof. Matteo Zoppi	
	(matteo.zoppi@unige.it) and for information the coordinator of the doctorate Prof. Giovanni	
	Berselli (giovanni.berselli@unige.it) specifying the candidate's name and surname, Skype	
	address and curriculum vitae to which it refers (RM)	
Further information on	The qualifications/publications must contain a detailed explanation and the development plan of	
how to present	how to present a possible research project, quoting the Robotics and Mechatronics (RM)	
qualifications/publications		
	ability to organize and carry out research.	
	If admitted to the doctoral course, the candidate will generally carry out his/her activity within	
	the syllabus chosen for his/her project, but not necessarily on the specific activities described and	
	planned in the actual project.	
Exam Syllabus	The interview will focus on the discussion of the project, the qualifications presented by the	
	candidate and on all the specific themes bound to the Robotics and Mecha tronics curriculum	
	(RM).	
Research Themes	The Robotics and Mechatronics (RM) syllabus focuses on research themes typical of the	
	Macrosectors it refers to. In particular the research themes suggested concern the devel op ment	
	of robot and manipulation, switch systems, home automation (domotics), remote manipulation,	
	modular robots and robots for safety, intelligent mini-vehicles, assembly systems, fluid	
	automation; models and simulation of systems for robotics and mechatronics, man-machine	
	interaction, collaborative robotics, cooperative robotics, robot programming, integration of	
	robotic systems, mechatronics for the automatic machine sectors and for the mechanical and	
	marine mechanical industry.	
	Research themes for grant funded within D.M. 352/2022: Automation of shimming process of	
T. C	resonance magnetic units. (°)	
information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be	
	their concern to send reference letters, within the deadline of the public notice, to the Coordinator	
	Prof. Luca A. Tagliafico at the following address <u>tgl@ditec.unige.it</u> and to the contact person for	
	the curriculum RM, Prof. Matteo Zoppi, at <u>matteo.zoppi@unige.it</u>	
	The name, status and service place of the referees chosen by the candidates must be stated in	
	their applications.	
Foreign Languages	English	
i oi eigh Lunguuges		
Further Information	Coordinator of the PhD IMEG course:	
	Prof. Giovanni Berselli	
	DIME/MEC	
	via all'Opera Pia 15/A 16145 Genova	
	(+39) 0103352839	
	<u>giovanni.berselli@unige.it</u>	
	Contact person for the RM curriculum:	
	Prof. Matteo Zoppi	
	DIME/MEC	
	via all'Opera Pia 15/A 16145 Genova	
	(+39) 0103352964	
	matteo.zoppi@unige.it	
(9) Information we date d fallo	wing communication of the course coordinator dated 24.06.2022	

(°) Information updated following communication of the course coordinator dated 24.06.2022

Curriculum: TECHNOLOGIES AND PLANTS (CODE 9278)

Course Coordinator: Berse	elli Giovanni		
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti – DIME)			
Places: 3 – Grants: 3 (*)			
	M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval		
	of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is		
(*) 1 grant funded within D.	M. 352/2022 (cofunded by Esaote), under condition to the approval of Ministerial funding; the grant, including social security expenses to be paid by the recipient, is \notin 16.500,00.		
	M. 352/2022 (cofunded by Myway), under condition to the approval of Ministerial funding; the		
annual gross amount of the	grant, including social security expenses to be paid by the recipient, is € 16.500,00.		
Comparative assessment	QUALIFICATIONS/PUBLICATIONS		
procedure			
Further information on	The qualifications/publications must contain a detailed explanation and the development plan of		
how to present qualifications/publications	how to present a possible research project, quoting the Technologies and Plants (TP) syllabus, and the field (TP.1 or TP.2) it refers to, in order to evaluate the candidate's ability to organize and computer records		
	and carry out research. If admitted to the doctoral course, the candidate will generally carry out his/her activity with in		
	the syllabus chosen for his/her project, but not necessarily on the specific activities described in		
	the actual project.		
Research Themes	The Technologies and Plants (TP) syllabus focuses on research themes typical of the macro-		
	sectors it refers to. It is organized into two specializations:		
	TP.1 Processing Technologies and Systems Specialization:		
	-Analysis of the variables that influence the mecchanical and micro-structural characteristics of		
	welded joints implemented with traditional and innovative techniques.		
	-Study of the potential of robotic welding plants.		
	-Singling out of solutions that allow the obtaining of glued joints with adequate characteristics		
	(study of the surface preparation methods, analysis of the behaviour of adhesives in different		
	environmental conditions).		
	-Study of the problems concerning the fine-tuning and monitoring of the processing of metallic and non-metallic materials.		
	-Study and singling out of construction techniques of moulds for polymeric materials.		
	-Surface analysis and fine-tuning of techniques to obtain the desired degree of finishing and		
	chemical reactivity.		
	TP.2 Industrial Plants Specialization:		
	-Design and management of production processes.		
	-Technical and economic as sessments of Engineering and industrialization of new products and		
	production cycles.		
	-Industrial sustainability, quality, safety, remanufacturing, demanufacturing. -Manufacturing strategies: Lean Manufacturing, World Class Manufacturing, Agile		
	Manufacturing. Manufacturing, World Class Manufacturing, Agie		
	-Industrial logistics.		
	-Life Cycle Assessment of plants and processes.		
	-Key enabling technology 4.0 for production and industrial plants: simulation, IoT, augmented		
	and virtual realities, manufacturing analytics.		
	The activities that will be carried out within the doctoral course aimat training young researchers		
	to be capable of developing theoretical and experimental research starting from the analysis of the state of the art and autonomously developing innovative solutions.		
	Research themes for grants funded within D.M. 352/2022:		
	• Automation of the bonding process in the develoment of an ecographic probe		
	• Advanced Methods of Intelligent Digital Twinning e Machine Learning for Servicing of		
	Industrial Machinery in the real world and Production Metaverse		
	Research themes for grants funded within D.M. 351/2022:		
	LCA of product/process of medical devices for diagnostic an therapeutical imaging for		
Information on references	compliance to Public Administration and sanitary services (°) Candidates must choose not less than one and not more than three referees to support their		
Information on references	candidature. These referees must be university professors or experts in the subject and it will be		
	their concern to send reference letters, within the deadline of the public notice, to the Coordinator		
	Prof. Giovanni Berselli at the following address giovanni.berselli@unige.it and to the contact		

	person for the curriculum TP, Prof. Carla Gambaro Prof. Enrico Lertora, at
	enrico.lertora@unige.it (°)
	The name, status and service place of the referees chosen by the candidates must be stated in
	their applications.
Foreign Languages	English
Further Information	Coordinator of the PhD IMEG course:
	Prof. Giovanni Berselli
	DIME/MEC
	via all'Opera Pia 15/A
	16145 Genova
	(+39) 0103352839
	giovanni.berselli@unige.it
	Contact person for the Technology and Plants - TP curriculum:
	Prof. Enrico Lertora
	DIME/ITIMAT
	via all'Opera Pia 15
	16145 Genova
	(+39) 0103352964
	enrico.lertora@unige.it

(°) Information updated following communication of the course coordinator dated 24.06.2022

Course: JOINT DOCTORATE IN INTERACTIVE AND COGNITIVE ENVIRONMENTS (JD ICE) Doctoral Course in agreement with the Queen Mary University of London and the Universidad Carlos III de Madrid

Curriculum: INTERACTIVE AND COGNITIVE ENVIRONMENTS (CODE 9279)

Course Coordinator: Rega	zzoni Carlo
	ctrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale,
	Telecomunicazioni – DITEN)
Places: 2-Grants: 2 (*).	
	ersità degli Studi di Genova, the annual gross amount of the grant, in cluding social security
expenses to be paid by the re	
	int qualification will be awarded with the Queen Mary University of London.
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	19/07/2022 at 9.30 at the Department of Electrical, Electronic, Telecommunications Engineering
	and Naval Architecture (DITEN), University of Gena, Via Opera Pia 11A - 16145 Genoa, Italy
	or online
	The interviews may also take place electronically via Skype connection with video for identity
	verification, upon request to the Coordinator of the Research Doctorate, Prof. Carlo Reg a zzon i,
	by email at <u>carlo.regazzoni@unige.it</u> and at <u>icephd@dibe.unige.it</u> address, inserting your s kype
	ID in the request.
	During the interview, the candidate must demonstrate his knowledge of the English language. In
	order to take the interview, the candidate must show the same identity document attached to the
	application for admission, he may also show another valid identity document where it is clearly
	identifiable.
Further information on	The application formmust contain:
how to present	a) curriculum vitae et studiorum correctly dated and signed. The CV must include all relevant
qualifications/publications	
	information should highlight: the title of the master's degree thesis and a brief description of the
	same, a list of exams taken and relative marks of previous research and / or work experience,
	any other qualifications obtained, certifications, publications, patents, etc.;
	b) degree certificate (three-year and master's). Candidates who have not obtained their degree in Justy or in the United Kingdom will have to present the certificate of attestation of the tide
	Italy or in the United Kingdom will have to present the certificate of attestation of the title
	translated into English and a declaration of value. c) a presentation of the institution that issued the title, containing a description of the selection
	methods, the international and national ranking, types of qualifications issued, teaching
	languages, website (etc.) (max. 15 lines);
	d) if the candidate is not a native English speaker, he/she must present a certificate of attestation
	of knowledge of the English language (IELTS with a minimum mark equal to: 6.5) obtained in
	the last three years from the submission of the application)
	e) a signed motivation letter containing the research project chosen and the reasons for the
	choice (max 10 pages)
	It is important to highlight in the presentation of the research project since the following aspects
	will be used as evaluation parameters: Relevance to the research themes that appear in the call,
	Originality, Methods of execution, Feasibility, and Clarity of exposure.
	A possible scheme for the presentation of the research project, which must not exceed 10 pages,
	is the following:
	- Motivations and logical foundation
	- State of art
	- Targets
	- Methodology used
	- Preliminary workplan
	- Expected results
	- Bibliography

Exam Syllabus	The interview includes an illustration of the research activities of interest of the candidate, als o in consideration of the previous research activities included in the candidate's curriculum vitae et studiorum.
	During the interview, the examining commission will evaluate the candidate's competences about specific research topics.
	During the interview, the candidate must demonstrate his knowledge of the English language. To
	take the interview, the candidate must show the same identity document attached to the application for admission, he may also show another valid identity document where it is clearly identifiable.
	The interviews may also take place electronically via Skype connection with video for identity verification, upon request to the Coordinator of the Research Doctorate, Prof. Carlo Reg azzoni,
	by e-mail at <u>carlo.regazzoni@unige.it</u> and at <u>icephd@dibe.unige.it</u> address, inserting your skype ID in the request.
Research Themes	1. Cybersecurity solutions for critical infrastructure
	2. Machine learning for resource allocation in satellite networks
	3. Design and development of new generation haptic interfaces for virtual touch
	4. Human Machine Interface based on Electronic Skin for Upper-limb Prosthetics
	5. Data driven self-awareness models for AI enabled wireless communications
	6. Emergent and incremental collective-awareness in multiple heterogeneous autonomous agents
	7. Integrated circuits with scalable power supply voltages for wireless sensor nodes (WSN)
	powered by energy harvesters
	8. CSI and AI based techniques for radio signals analysis in ambient intelligence applications
	9. IoT solutions in e-Health applications for home assistance and care
	10. Explainable Artificial Intelligence
	11. Architetture per il supporto al machine learning (°)
Information on references	Candidates must choose not less than one and not more than three referees to support the
	application. These contacts must be university professors or experts in the subject. It must be the referents' responsibility to send the reference letters, within the deadline of the call, to the
	Coordinator of the PhD course at the following addresses:
	<u>carlo.regazzoni@unige.it; icephd@dibe.unige.it</u>
	In the application for admission, candidates must indicate the name, qualification and place of employment of the contact persons they have chosen.
	The candidate's aptitude for scientific research must clearly show from the content of the
	reference letters
Foreign Languages	English
Further Information	The Doctoral course in Interactive and Cognitive Environment is a JOINT Doctorate and is organized and coordinated - as stipulated in the agreement "COLLABORATION AGREEMENT BETWEEN QUEEN MARY UNIVERSITY OF LONDON AND
	UNIVERSITY OF GENOA STUDIES". The agreement provides for a joint model of
	coordination of the doctorate, supervision and mobility of candidates. In accordance with the
	above, each supervising candidate will be assigned two supervisors, one for each partner
	university. Candidates who participate in the announcement announced by UNIGE and will be
	winners, and who will therefore have UNIGE as their Primary Institution, will be assigned a
	UNIGE professor as Primary Supervisor and a QMUL professor as Secondary Supervisor. Upon
	completion of the doctorate, a JOINT degree signed by both Partner Universities will be is sued
	to those who successfully pass the final defense.
	More information on: <u>http://phd-jdice.diten.unige.it/</u>
	ving the request of the course coordinator dated 20.06.2022

(°) information updated following the request of the course coordinator dated 20.06.2022

Course: JOINT DOCTORATE IN INTERACTIVE AND COGNITIVE ENVIRONMENTS (JD ICE) Doctoral Course in agreement with the Queen Mary University of London and the Universidad Carlos III de Madrid

Curriculum: SELF-AWARE AUTONOMOUS SYSTEMS (CODE 9280)

Course Coordinator: Regazzoni Carlo		
	Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale,	
,	Telecomunicazioni – DITEN)	
Places: 2 – Grants: 2 (*)		
(*) 1 grant funded by Univ expenses to be paid by the re	ersità degli Studi di Genova, the annual gross amount of the grant, including social security ecipient, is $\notin 16.500.00$	
(*) 1 grant funded within	(*) 1 grant funded within D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the	
	ling; the annual gross amount of the grant, including social security expenses to be paid by the	
recipient, is € 16.500,00.	th the Universidad Carlos III de Madrid (UC3M) signed on 8.6.2018, a cotutelle can be activated	
	ree between the two universities.	
	be published at http://phd-jdice.diten.unige.it/.	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	19/07/2022 at 9.30 at the Department of Electrical, Electronic, Telecommunications	
	Engineering and Naval Architecture (DITEN), University of Gena, Via Opera Pia 11A - 16145 Genoa, Italy, or online.	
	The interviews may also take place electronically via Skype connection with video for identity verification, upon request to the Coordinator of the Research Doctorate, Prof. Carlo Regazzoni,	
	by email at <u>carlo.regazzoni@unige.it</u> and at <u>icephd@dibe.unige.it</u> address, inserting your sky pe	
	ID in the request.	
	During the interview, the candidate must demonstrate his knowledge of the English language. In order to take the interview, the candidate must show the same identity document attached to the	
	application for admission, he may also show another valid identity document where it is clearly identifiable.	
Further information on	The application form must contain:	
how to present	a) curriculum vitae et studiorum correctly dated and signed. The CV must include all relevant	
qualifications/publications	information regarding the research doctorate topics for which the candidate is applying. This	
	information should highlight: the title of the master's degree thesis and a brief description of the	
	same, a list of exams taken and relative marks of previous research and/or work experience,	
	any other qualifications obtained, certifications, publications, patents, etc.; b) degree certificate (three-year and master's). Candidates who have not obtained their degree in	
	Italy or in the United Kingdom will have to present the certificate of attestation of the title	
	translated into English and a declaration of value.	
	c) a presentation of the institution that is sued the title, containing a description of the selection	
	methods, the international and national ranking, types of qualifications issued, teaching	
	languages, website (etc.) (max. 15 lines); d) if the candidate is not a native English speaker, he/she must present a certificate of attestation	
	of knowledge of the English language (IELTS with a minimum mark equal to: 6.5) obtained in the last three years from the submission of the application)	
	e) a signed motivation letter containing the research project chosen and the reasons for the	
	choice (max 10 pages)	
	It is important to highlight in the presentation of the research project since the following aspects will be used as evaluation parameters: Relevance to the research themes that appear in the call, Originality, Methods of execution, Feasibility, and Clarity of exposure.	
	A possible scheme for the presentation of the research project, which must not exceed 10 pages,	
	is the following:	
	- Motivations and logical foundation	
	- State of art	
	- Targets - Methodology used	
	- Preliminary workplan	
	- Expected results	
	- Bibliography	
Exam Syllabus	The interview includes an illustration of the research activities of interest of the candidate, als o	
	in consideration of the previous research activities included in the candidate's curriculum vitae et studiorum.	
	During the interview, the examining committee will evaluate the candidate's competencies in	
	specific research topics.	
	During the interview, the candidate must demonstrate his knowledge of the English lang uage.	

	To take the interview, the candidate must show the same identity document attached to the application for admission, he may also show another valid identity document where it is clearly identifiable.
	The interviews may also take place electronically via Skype connection with video for identity verification, upon request to the Coordinator of the Research Doctorate, Prof. Carlo Regazzoni,
	by e-mail at <u>carlo.regazzoni@unige.it</u> and at <u>icephd@dibe.unige.it</u> address, inserting your skype ID in the request.
Research Themes	1. Cybersecurity solutions for critical infrastructure
	2. Machine learning for resource allocation in satellite networks
	3. Design and development of new generation haptic interfaces for virtual touch
	4. Human Machine Interface based on Electronic Skin for Upper-limb Prosthetics
	5. Data driven self-awareness models for AI enabled wireless communications
	6. Emergent and incremental collective-awareness in multiple heterogeneous autonomous
	agents 7. Integrated circuits with scalable power supply voltages for wireless sensor nodes (WSN)
	powered by energy harvesters
	8. CSI and AI based techniques for radio signals analysis in ambient intelligence applications
	9. IoT solutions in e-Health applications for home assistance and care
	10. Explainable Artificial Intelligence
	11. Data-driven multisensorial self-awareness for autonomous systems in public infrastructures
	(research theme for grant funded within D.M. 351/2022 - Azione Dottorati per la Pubblica
	Amministrazione)
	12. Architetture per il supporto al machine learning (°)
Information on references	11
	application. These contacts must be university professors or experts in the subject. It must be the
	referents' responsibility to send the reference letters, within the deadline of the call, to the
	Coordinator of the PhD course at the following addresses:
	<u>carlo.regazzoni@unige.it; icephd@dibe.unige.it</u>
	In the application for admission, candidates must indicate the name, qualification, and place of
	employment of the contact persons they have chosen. The candidate's aptitude for scientific research must be clearly shown from the content of the
	reference letters.
Foreign Languages	English
Further Information	The PhD course in Self-aware autonomous systems belongs is a JOINT Doctorate and is
	organized and coordinated - as stipulated in the agreement "COLLABORATION
	AGREEMENT BETWEEN UNIVERSIDAD CARLOS III DE MADRID AND UNIVERSITY
	OF GENOA". The agreement provides for a joint model of coordination of the doctorate,
	supervision, and mobility of candidates. In accordance with the above, each supervising
	candidate will be assigned two supervisors, one for each partner university. Candidates who
	participate in the announcement announced by UNIGE and will be winners, and who therefore
	will have UNIGE as their Primary Institution, will be assigned a UNIGE professor as Primary
	Supervisor and a UC3M professor as Secondary Supervisor. Upon completion of the doctorate, a JOINT degree signed by both Partner Universities will be issued to those who successfully
	pass the final defense.
	More information on: <u>http://phd-jdice.diten.unige.it/</u>
	ving the request of the course coordinator dated 20.06.2022

(°) information updated following the request of the course coordinator dated 20.06.2022

Course: MODERN AND CLASSICAL LITERATURES AND CULTURES

Curriculum: ITALIAN STUDIES AND TEXTUAL SCIENCES (CODE 9281)

Course Coordinator: Bona	fin Massimo		
Department of Italian and Romance Languages, Classical Studies, The Arts and Performing Arts (Dipartimento di			
Italianistica, Romanistica, Antichistica, Arti e Spettacolo – DIRAAS)			
Places: $10(^{\circ})$ – Grants: 7 (*			
	(*) 6 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security		
expenses to be paid by the r			
	(*) 1 grant funded within D.M. 351/2022 (Azione Dottorati per il patrimonio culturale), under condition to the approval of Ministerial funding the approval grace amount of the grant in chuding accircle country are presented by the regiminant is 6		
16.500,00.	Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is \in 16 500 00		
	nployee of Istituto Internazionale di Studi Liguri		
(°) 2 position reserved to en			
() 2 position reserved to en	proyees of SogeAten stis		
The number of places (6) an	d grants (6) funded by Università degli Studi di Genova refers to the doctoral research course in		
its entirety and not to the sir	ngle curriculum. The merit list, of the interview and the final list are one and the same for the		
entire doctoral course and n			
	0.M. 351/2022 and places reserved to employees of Istituto Internazionale di Studi Liguri and		
	the curriculum ANCIENT STUDIES: ARCHAEOLOGY, PHILOLOGY, HISTORY.		
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND EXAM		
procedure			
Written Test	22/7/22 h. 9.00 a.m. Venue: Dipartimento di Antichistica, Filosofia, Storia (DAFIST), Library-		
	reading room, via Balbi 4, floor 3, Genova. RoomN, via Balbi 4, Genova (°)		
Interview	25/7/22, h. 9.00 a.m. The interview will be held on TEAMS remote platform. Instructions will		
	be sent to all interviewees.		
Further information on	Together with all other required documentation, candidates are expected to upload onto the		
how to present	application website one file including the title, contents and bibliography of their MA		
qualifications/publications			
quanteurons, publications	of the dissertation (max. 8.000 words).		
	Likewise, they will have to upload their publications, and their research project, inclusive of		
	state of the art, bibliography, and expected results (max. 1.700 words)		
Exam Syllabus	Written test: commentary of a literary text in verse or prose.		
	Interview: discussion of the paper produced during the written test and of the research project.		
Research Themes	- Comparative Literature and Literary Theory		
	- Reconstructive philology and authorial philology applied to Italian literary texts		
	- Italian Literature and Dramatic Literature: texts, authors and critical problems from the		
	thirteenth to the twentieth century.		
	- History of the Italian Language		
	- History of Theatre		
	- History of Music		
	- Themes, Motifs and Figures of Romance Medieval Fiction		
Information on references	Min. 1- Max. 3 reference letters by University lecturers or other experts are required. In the		
	online application formapplicants will have to state their referees' names, qualifications, and		
	University affiliations. Referees are expected to use the reference template to be downloaded		
	from the Ph.D. programme website <u>https://corsi.unige.it/corsi/11348</u> and send their reference		
	letters to <u>mberis so@unige.it</u> , by the deadline of the call.		
Foreign Languages	During the interview candidates will be asked to translate a passage of critical literature (either		
	English or French) concerning the above-listed research themes.		
Further Information	Only a limited number of applicants will be admitted to the written exam. Admission will be		
	based on CV, MA dissertation, published works (if any) and research project. The list of those		
	admitted will be posted to the News section of our site:		
	https://corsi.unige.it/corsi/11348 by July 19, h. 23,59		
	<u>mups//const.unge.u/const/11540</u> 0y July 17, II. 23,39		

(°) information updated following the request of the course coordinator dated 18.06.2022

Curriculum: MODERN LITERATURES (CODE 9282)

Department of Indian and Romance Languages, Classical Studies, The Arts and Perfoming Arts (Dipartimento di Indianistica, Romanistica, Ancite Spettacolo – DIRAAS) Places: 10(°) – Grants: 7(*) (°) © grants funded by Universitädegli Studi di Cenova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16 500,00 (°) 1 position reserved to employee of Istituto Internazionale di Studi Liguri (°) 2 position reserved to employees of Soge Arch srks The number of places (6) and grants (6) funded by Universitä degli Studi di Genova refers to the doctoral securicoum, rais entity and not to the single curriculun. The merit list, of the interview and thefinal list are one and the s ame for the entire doctoral course and not the single curriculun. ACENT STUDIES: ARCHAEOLOGY, PHILOLOGY, HISTORY, Comparative assessment proceeding on the interview will be held on TEAMS remote platics. (So and grants (ADENT), Library reading one view Held Held (So and Cont), via Babi 4, Genova (Cont), and the single curriculun ANCENT STUDIES: ARCHAEOLOGY, PHILOLOGY, HISTORY, Comparative assessment proceeding and the interview will be held on TEAMS remote platform. Instructions will be sent to all interviewes and behild and pass. Consolution, and diats are espected to upload on to the application website one file including the title, contents and bibliography. And espectary of their MA dissertation, as well as a synopsio restract (funtoduction/conclusion, or one significant chapter) of the dissertation, as well as a synopsio restract (funtoduction/conclusion of a short literary tex (a poemor an extract from a prose work dating from the late eighteenth century of the indA dissertation, as well as a synopsior serutation. Andi		
Inaliansica, Romanistica, Antichistica, Artie Spetracolo – DIRAAS) Phaces: 1(0 ²) - Gramts 7 (7) (*) 6 grants funded by Università degli Studi di Cenova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is 6 16 500,00 (*) 1 grant funded within DAN 53/2022 (Azione Dottorali peril patrimonio culturale), under condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is 6 16 500,00 (*) 2 position reserved to employee of Istituto Internazionale di Studi Liguri (*) 2 position reserved to employee of SogeArch srls The number of places (6) and grants (6) funded by Università degli Studi di Genova refers to the doctoral research course in its entirety and not the single curriculum. The grant funded within DAN 51/2022 and places reserved to employees of Istituto Internazionale di Studi Liguri and SogeArch srls referonly to the curriculum ARCIENT STUDIES: ARCIALEOLOGY, PHILOLOGY, HISTORY, UNATONS VIDELICATIONS AND EXAM Comparative assessment QUALIFICATIONS PUBLICATIONS AND EXAM Procedure QUALIFICATIONS PUBLICATIONS AND EXAM Written Test 2 57/32.h. 900 a.m. The interview will be held on TEAMS remote platform. Instructions will be sent to all interviewees Purcher information on how to present QuALIFICATIONS AND EXAM Gold and Scharol (max 8.000 words). Likewise, they will have to upload cher publications, and their research project.	Course Coordinator: Bonafin Massimo	
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Interview: discussion of the paper produced during the written test and of theresearch project: assessment of language skills (as required by the candidate's chosen curriculum – see the "Foreign languages" section below).Research ThemesOur Ph. D. programme can offer competent supervision to research projects on a variety of authors, themes, genres and works of French, English, Nordic, Polish, Portuguese and Brazilian, Russian, Spanish, German literatures. It especially welcomes projects relating to the research interests of its academic staff and their colleagues of the Department of Modern Languages and Cultures. For a detailed list of their fields of research see https://lingue.unige.it/sites/lingue.unige.it/files/2022-04/Temi% 20di% 20ricerca.pdfInformation on referencesMin. 1- Max 3 reference letters by University lecturers or other experts are required. In the online application formapplicants will have to state their reference template to be downloaded from the Ph.D. programme website https://corsi.unige.it/sites/lingue.unige.it/sites/lingue.unige.it/sets/lingue.ges deadline of the call.Foreign LanguagesThe candidate's knowledge of the foreign languages directly involved in his/her research project will be tested during the interview. An advanced level in at least one foreign language and a working knowledge of a second foreign language (chosen among French, English, Polish, Polish, Portuguese, Russian, Spanish, Swedish, Norwegian, Danish, German) are required. Applicants whose mother tongue is not Italian will also have to demonstrate their		offered relating to the Early-Modern period. Use of a monolingual dictionary is allowed. The
Research ThemesOur Ph. D. programme can offer competent supervision to research projects on a variety of authors, themes, genres and works of French, English, Nordic, Polish, Portuguese and Brazilian, Russian, Spanish, German literatures. It especially welcomes projects relating to the research interests of its academic staff and their colleagues of the Department of Modern Languages and Cultures. For a detailed list of their fields of research see https://lingue.unige.it/sites/lingue.unige.it/files/2022-04/Temi% 20di% 20ricerca.pdfInformation on referencesMin. 1- Max. 3 reference letters by University lecturers or other experts are required. In the online application formapplicants will have to state their referees' names, qualifications, and University affiliations. Referees are expected to use the reference template to be downloaded from the Ph.D. programme website https://ingue.unige.it/sites/lingue.unige.it/sites/lingue.unige.it/sites/lingue.unige.it/sites/lingue.unige.it/sites/lingue.unige.it/sites/lingue.unige.it/sites/lingue.unige.it/corsi.unige.it/corsi.unige.it/1348 and sendtheir reference letters to Prof. Luisa Villa luisa.villa@unige.it by the deadline of the call.Foreign LanguagesThe candidate's knowledge of the foreign language/languages directly involved in his/her research project will be tested during the interview. An advanced level in at least on e foreign language and a working knowledge of a second foreign language (chosen among French, English, Polish, Polish, Portuguese, Russian, Spanish, Swedish, Norwegian, Danish, German) are required. Applicants whose mother tongue is not Italian will also have to demonstrate their		test may be taken in Italian or English.
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"Foreign languages" section below).Research ThemesOur Ph. D. programme can offer competent supervision to research projects on a variety of authors, themes, genres and works of French, English, Nordic, Polish, Portuguese and Brazilian, Russian, Spanish, German literatures. It especially welcomes projects relating to the research interests of its academic staff and their colleagues of the Department of Modern Languages and Cultures. For a detailed list of their fields of research see https://lingue.unige.it/sites/lingue.unige.it/files/2022-04/Temi% 20di% 20ricerca.pdfInformation on referencesMin. 1- Max. 3 reference letters by University lecturers or other experts are required. In the online application formapplicants will have to state their referees' names, qualifications, and University affiliations. Referees are expected to use the reference template to be downloaded from the Ph.D. programme website https://corsi.unige.it/corsi/11348 and send their reference letters to Prof. Luisa Villa <a 11348"="" corsi="" corsi.unige.it="" href="https://linguages/languages/languages/languages/languages/languages/languages/languages/languages/languages/languages/languages/languages/languages/language directly involved in his/her
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required. Applicants whose mother tongue is not Italian will also have to demonstrate their		language and a working knowledge of a second foreign language (chosen among French,
required. Applicants whose mother tongue is not Italian will also have to demonstrate their		
		knowledge of the Italian language, which is necessary for a fruitful participation in the didactic
activities.		
Further InformationOnly a limited number of applicants will be admitted to the written exam. Admission will be	Further Information	
based on CV, MA dissertation, published works (if any) and research project. The list of those		
admitted will be posted to the News section of our site:		
-		
<u>https://corsi.unige.it/corsi/11348</u> by July 19, h. 23,59 (°) information updated following the request of the course coordinator dated 18.06.2022	$\binom{0}{1}$ in formation $\frac{1}{1}$ is $\frac{1}{1}$	

(°) information updated following the request of the course coordinator dated 18.06.2022

Course: MODERN AND CLASSICAL LITERATURES AND CULTURES

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Curriculum: ANCIENT STUDIES: ARCHAEOLOGY, PHILOLOGY, HISTORY (CODE 9283)

Course Coordinator: Bonafin Massimo		
Department of Italian and Romance Languages, Classical Studies, The Arts and Perfoming Arts (Dipartimento di		
	Italianistica, Romanistica, Antichistica, Arti e Spettacolo – DIRAAS)	
Places: $10(^{\circ})$ – Grants: 7 (
	ersità degli Studi di Genova, the annual gross amount of the grant, including social security	
expenses to be paid by the r		
	.M. 351/2022 (Azione Dottorati per il patrimonio culturale), under condition to the approval of	
	nual gross amount of the grant, including social security expenses to be paid by the recipient, is \in	
16.500,00.		
	nployee of Istituto Internazionale di Studi Liguri	
(°) 2 position reserved to en	nployees of Soge Arch srls	
	nd grants (6) funded by Università degli Studi di Genova refers to the doctoral research course in	
entire doctoral course and n	ngle curriculum. The merit list, of the interview and the final list are one and the same for the	
	0.M. 351/2022 and places reserved to employees of Istituto Internazionale di Studi Liguri and the curriculum ANCIENT STUDIES: ARCHAEOLOGY, PHILOLOGY, HISTORY.	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND EXAM	
procedure	QUALIFICATIONS/FUBLICATIONS AND EXAM	
Written Test	22/7/22 h. 9.00 a.m. Venue: Dipartimento di Antichistica, Filosofia, Storia (DAFIST), Library	
witten fest	reading room, via Balbi 4, floor 3, Genova. RoomN, via Balbi 4, Genova (°)	
Interview	25/7/22, h. 9.00 a.m. The interview will be held on TEAMS remote platform. Instructions will	
Inter view	be sent to all interviewees.	
Further information on	Together with all other required documentation, candidates are expected to upload onto the	
how to present	application website one file including the title, contents and bibliography of their MA	
qualifications/publications		
quantications/publications	of the dissertation (max. 8.000 words).	
	Likewise, they will have to upload their publications, and their research project, inclusive of	
	state of the art, bibliography, and expected results (max. 1.700 words).	
Exam Syllabus	The written test will be conducted on randomly selected tasks and will consist of:	
	1) a translation from a Latin or Greek text which may include a philological and exegetical	
	commentary; 2) an essay dealing with topics of Greek and Roman history, grounded on ancient	
	sources and modern bibliography; 3) an essay dealing with archaeological to pics and related	
	methodological issues.	
	The interview will include a discussion of the paper produced during the written test and the	
	research proposal; it will also examine the candidates' language proficiency (see Foreign	
	Languages).	
Research Themes	Our Ph. D. programme can offer competent supervision to research projects on a variety of	
	authors, texts, genres, and themes pertaining to the following scientific areas: Greek, Latin, and	
	Byzantine philology and literature, Greek and Roman history, papyrology, epigraphy, Aegean	
	archaeology, methods of archaeological research. It especially welcomes projects relating to the	
	research interests of its academic staff and their colleagues of the Department DAFIST and	
	DIRAAS. For a detailed list of their fields of research see	
	https://lingue.unige.it/sites/lingue.unige.it/files/2022-04/Temi%20di%20ricerca.pdf	
	- Cultural PatrimOil: the contribution of the Greek and Latin literary traditions to the	
	understanding of olive cultivation and oil production (project linked to a co-financed grant DM	
	351- 09/042022).	
	- Lucus Bromani: a Roman mansio situated along the Iulia Augusta road (project linked to the	
	industrial Ph.D. partnership with the International Institute of Ligurian Studies).	
	- Iron-Age settlement dynamics and strategies in the Po Valley: residential areas, necropoles,	
	craft sites, Settlement dynamics and strategies in the Po Valley between Middle-Ages and	
	Renaissance: residential areas, necropoles, craft sites (projects linked to 2 doctoral positions within the industrial Ph.D. partnership with SogeArch srls). $\binom{\circ}{}$	
Information on references	Min the industrial Ph.D. partnership with SogeArch sris).	
mor mation on relefences	online application formapplicants will have to state their referees' names, qualifications, and	
	University affiliations. Referees are expected to use the reference template to be downloaded	
	from the Ph.D. programme website <u>https://corsi.unige.it/corsi/11348</u> and send their reference	
	letters to Prof.s sa Francesca Gazzano: <u>referente.antichistica1@gmail.com</u> by the deadline of the	
	call.	
Foreign Languages	A good working knowledge of two modern foreign languages (chosen among English, French,	
gri zamguugob	Spanish, German) is required of all candidates, who will be asked to translate passages from	
L		

	specialist publications during the interview. An adequate knowledge of the Italian language is mandatory for all applicants.
Further Information	Only a limited number of applicants will be admitted to the written exam. Admission will be based on CV, MA dissertation, published works (if any) and research project. The list of those admitted will be posted to the News section of our site: <u>https://corsi.unige.it/corsi/11348</u> by July 19, h. 23,59

(°) Information updated following communication of the course coordinator dated 14.06.2022 (°°) information updated following the request of the course coordinator dated 18.06.2022

Curriculum: MATHEMATICS AND APPLICATIONS (CODE 9285)

Course Coordinator: Vigni	Stefano
Department of Mathematics	(Dipartimento di Matematica – DIMA)
Places: 5 – Grants: 5 (*)	
	ersità degli Studi di Genova, the annual gross amount of the grant, in cluding social security acipient is $\in 16500.00$
(*) 1 grant funded by MUR/	DIMA, the annual gross amount of the grant, including social security expenses to be paid by the
recipient, is € 16.500,00	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	21.7.2022 - 9:00 am (Italian time)
	Interviews may continue on 22.7.2022.
	All interviews will be held either in person or via SKYPE. In due course, candidates will be
	contacted by the evaluation committee.
Further information on	Besides the documentation listed in art. 3 of the public notice, candidates must present: - if
how to present	available, their 5-year degree thesis (to be uploaded online).
qualifications/publications	
	- their three-year degree and 5-year degree marks should be indicated in their curriculum;
	- a research project (2 pages max.) which describes the research theme they intend to work on
	during the Doctoral Course.
Exam Syllabus	The comparative assessment procedure consists in the assessment of qualifications/publications
	and in interview on the research project presented by the candidate.
Research Themes	- Harmonic and functional analysis
	- Mathematical logic and category theory
	- Commutative algebra
	- Complex projective geometry
	- Analytic number theory
	- Arithmetic geometry and algebraic number theory
	- Mathematical formulations of quantum mechanics and field theory
	- Probability and mathematical statistics
	- Numerical analysis, computational methods and applications
	- Mathematics education
Information on references	Candidates must choose not less than one and not more than three referees to support their
	candidature. These referees must be university professors or experts in the subject and it will be
	their concern to send reference letters, within the deadline of the public notice, to the
	Coordinator of the Doctoral Course at the following address:
	Prof. Stefano Vigni
	Dipartimento di Matematica, Università di Genova
	Via Dodecaneso 35 16146 Genova
	or, alternatively, to the e-mail address: vigni@dima.unige.it
	The name, status and service place of the referees chosen by the candidates must be stated in
	their applications.
Foreign Languages	English
Further Information	Prof. Stefano Vigni
	Dipartimento di Matematica, Università di Genova
	via Dodecaneso 35
	16146 Genova GE
	E-mail: stefano.vigni@unige.it

Curriculum: MATHEMATICAL METHODS FOR DATA ANALYSIS (CODE 9286)

Course Coordinator: Vigni	i Stefano
Department of Mathematics	(Dipartimento di Matematica – DIMA)
Places: $7 - $ Grants: $7(*)$	
annual gross amount of the	IA project ERC Starting Grant 2021 "Sample complexity for inverse problems in PDE" ($^{\circ\circ}$), the grant, including social security expenses to be paid by the recipient, is \in 16.500,00
the recipient, is € 16.500,00	rdo S.p.A., the annual gross amount of the grant, including social security expenses to be paid by
funding; the annual gross an	M. 351/2022 (Azione Dottorati di ricerca PNRR), under condition to the approval of Ministerial nount of the grant, including social security expenses to be paid by the recipient, is \notin 16.500,00. M. 352/2022 (cofunded by Esaote S.p.A., research theme: Machine Learning per imaging MRI),
under condition to the appro to be paid by the recipient, is	oval of Ministerial funding; the annual gross amount of the grant, including social security expenses $s \in 16.500,00$. (°)
of pathological conditions in neural cell cultures), under c	M. 352/2022 (cofunded by 3Brain AG, research theme: Artificial intelligence for the identification in neural cell cultures and Implementation of a software tool for the analysis of time series from condition to the approval of Ministerial funding; the annual gross amount of the grant, including
(*) 1 grant funded within D. and data analysis), under co	be paid by the recipient, is \notin 16.500,00. (°) M. 352/2022 (cofunded by MindEarth Sàgl, research theme: Regularization techniques for image ndition to the approval of Ministerial funding; the annual gross amount of the grant, including
	be paid by the recipient, is \notin 16.500,00. (°)
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview:	21.7.2022 - 9:00 am (Italian time)
	Interviews may continue on 22.7.2022.
	All interviews will be held either in person or via SKYPE. In due course, candidates will be contacted by the evaluation committee.
Further information on	Besides the documentation listed in art. 3 of the public notice, candidates must present: - if
how to present	available, their 5-year degree thesis (to be uploaded online).
qualifications/publications	
qualifications, publications	- their three-year degree and 5-year degree marks should be indicated in their curriculum;
	- a research project (2 pages max.) which describes the research theme they intend to work on during the Doctoral Course.
Exam syllabus:	The comparative as sessment procedure consists in the assessment of qualifications/publications and in interview on the research project presented by the candidate.
Research themes	Research theme n. 1 (grant funded by del DIMA) - Applied harmonic analysis, PDE, inverse
	problems, machine learning.
	Research theme n. 2 (grant funded by Leonardo S.p.A.) - Algorithms in post-quantum cryptography.
	Abstract - The aim is to investigate different classes of quantum-resistant public-key cryptographic algorithms, both from a mathematical and a practical point of view. A particular
	emphasis will be given to NIST candidates for post-quantum standardization. Research theme n. 3 (grant funded within D.M. 351/2022 - Azione Dottorati di ricerca
	PNRR) - Mathematical methods (techniques of optimal transport, machine learning, inverse problems) and model-driven computational methods for data analysis. Research theme n. 4 (grant funded within D.M. 352/2022 Esaote S.p.A) Machine Learning for
	MRI imaging
	Abstract: In the last 30 years, magnetic resonance research has been focused on high-field MRI, bringing a number of improvements that are not always dependent on the strength of the magnetic field. Low-field MRI machines offer a competitive alternative that is cost effective and presents
	several advantages for the comfort of the patient. Many of the advancements obtained in the high field regime have not yet been extended to the low field machines. In this project we will explore several important open is sues in low field MRI that can be tackled with the help of AI techniques.
	The aim of the research is to combine the mathematical model of low field MRI with recent advances in AI to improve image reconstruction algorithms. $(^{\circ})$
	Research theme n. 5 (grant funded within D.M. 352/2022 3Brain AG) Artificial intelligence for the identification of pathological conditions in neural cell cultures Abstract: This project aims at formulating computational neuroscience techniques for the
	stratification of pathological/physiological conditions in human neural cell cultures. The mathematical methods developed during the project's activity will include source modelling,
	connectivity analysis, and data encoding. (°) Research theme n. 6 (grant funded within D.M. 352/2022 3Brain AG) Implementation of a
	software tool for the analysis of time series from neural cell cultures

	Abstract: The project aims at implementing a software tool for the analysis of time series provided
	by three-dimensional wells that measure the electric signal from human-derived neural cell
	cultures. This tool has two specific objectives: the stratification of the time series and the
	automatic as sessment of possible therapeutic solutions. $(^{\circ})$
	Research theme n. 7 (grant funded within D.M. 352/2022 MindEarth Sàgl) Regularization
	techniques for image and data analysis
	Abstract: Regularization is a powerful tool to solve many applied problems such as image
	reconstruction and classification. The project is aimed to explore novel regularization methods for
	the analysis of street-level photographic images and satellite images, and to extract from them the
	useful information. (°)
Information on references	Candidates must choose not less than one and not more than three referees to support their
	candidature. These referees must be university professors or experts in the subject and it will be
	their concern to send reference letters, within the deadline of the public notice, to the Coordinator
	of the Doctoral Course at the following address:
	Prof. Stefano Vigni
	Dipartimento di Matematica, Università di Genova
	Via Dodecaneso 35 16146 Genova
	or, alternatively, to the e-mail address: vigni@dima.unige.it
	The name, status and service place of the referees chosen by the candidates must be stated in their
	applications.
Foreign languages	English
Further information	Prof. Stefano Vigni
	Dipartimento di Matematica, Università di Genova
	via Dodecaneso 35
	16146 Genova GE
	E-mail: <u>stefano.vigni@unige.it</u>
(°) Grants added following th	e agreement with Esaote Spa dated 27.5 2022 with 3Brain AG dated 30.05 2022 with MindEarth

(°) Grants added following the agreement with Esaote Spa dated 27.5.2022, with 3Brain AG dated 30.05.2022, with MindEarth Sàgl dated 10.06.2022 (°°) Information updated following communication of the course coordinator dated 10.06.2022

Curriculum: MATHEMATICAL METHODS FOR DATA ANALYSIS - CLOE Project (CODE 9287)

Course Coordinator: Vigni Stefano	
Department of Mathematics (Dipartimento di Matematica – DIMA)	
Places: 1(°) – Grants: 0	
2020 "CLOE - Training to conservation" GA n. 101 https://cloe.dp.unige.it.	Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND- complexity: multidisciplinary approaches to rural and mountain sustainable development and 1034449. For more details, see the Marie Skłodowska Curie COFUND project website at oject, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4
	he date of the recruitment and not have been already awarded a PhD degree before. ESRs have also
	they must not have resided or carried out their main activity (work, study etc.) in Italy for more
than 12 months in the three time spent under a proced	years prior to the date of recruitment. Compulsory national service, short stays such as holidays and lure to obtain refugee status under the Geneva Convention are not taken into account for the
calculation.	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	The interview of admitted candidates will remotely take place (using Microsoft TEAMS, SKYPE
	or other platform) on 25 July 2022, at 9.30 (CET).
	Further information will be provided via e-mail after 30 June 2022.
Further information on	Applicants will have to submit their application by filling in the requested information and
how to present	uploading the following documents in PDF format:
qualifications/publications	
	2. a translation of the academic qualifications duly notarized by the Italian diplomatic or consular
	office of the Country in which the qualifications were obtained and Declaration of Value of the
	qualifications prepared by the Italian diplomatic-consular Representatives, that is located in the
	Country where the qualifications were obtained. If the Italian diplomatic or consular office does not
	provide the documentation in time for the application, applicants should enclose all the
	documentation available (e.g. degree certificates, transcript of records);
	3. in case of qualifications issued by an EU contry, previous documents may be replaced by the
	Diploma Supplement delivered by the University which has issued the title, according to the
	standards of the EU and UNESCO/CEPES;
	4. Master thesis extended abstract (max.10 pages);
	5. Curriculum Vitae;
	6. Letter of Motivation;
	7. a self-declaration (<u>https://cloe.dp.unige.it/en/application_package_2022</u>) to demonstrate that
	they respect the MSCA mobility rule, the ESR definition, and the English language proficiency (IELTS scores, TOEFL results, or proof of a degree
	awarded in English
	8. Research project proposal;
	9. Ethics self-assessment (through the form available at the following link:
	https://cloe.dp.unige.it/en/application_package_2022
	10. up to three letters of reference;
	11. Publication(s)/Patent(s)(optional; max 5).
	Further information: https://cloe.dp.unige.it/en/application_package_2022
Exam Syllabus	The comparative assessment will be based on an evaluation of the candidate's qualifications, a
	research project and an interview designed to assess the skills and knowledge required for
	admission to a PhD programme.
Research Themes	For the preparation of the research project the candidate has to choose one of the two proposed
	themes: 1) Coherent Inference for graphical models with applications to risk as sessment of rare
	events; 2) Causal discovery with chain event graphs in the presence of as ymmetric independencies
	in a dynamic setting. During the PhD theoretical advancements on 1) or 2) will be driven by the
	modelling and data analyses needs of the CLOE Doctoral Programm. CLOE is focused on
	multidisciplinary approaches to mountain and rural sustainable development and conservation.
	Further information on the project proposal structure and on CLOE is available at
	https://cloe.dp.unige.it/en.

Information on references	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Eva Riccomagno riccomag@dima.unige.it
	The name, status and service place of the referees chosen by the candidates must be stated in their applications.
Foreign Languages	English
Further Information	Within the three years of the Program (and, preferably, during the second year) PhD students shall spend at least 6 months abroad, or at qualified international training centers in Italy, doing research on the topic of their Phd dissertation (possibly also non-consecutive, but in any case – for each fraction – of adequate consistency).
	Curriculum coordinator: Prof. Stefano Vigni
	E-mail: <u>stefano.vigni@unige.it</u>
	CLOE COFUND Supervisor: Prof. Eva Riccomagno riccomag@dima.unige.it

Curriculum: BIOCHEMISTRY (CODE 9288)

ator: Fedele Ernesto
xperimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)
rants: 4 (*)
ed by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses
recipient, is € 16.500,00
d within D.M. 351/2022 (Azione Dottorati di ricerca PNRR), under condition to the approval of Ministerial
ual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin 16.500,00.
d within D.M. 352/2022 (cofunded by LGD), under condition to the approval of Ministerial funding; the annual
the grant, including social security expenses to be paid by the recipient, is \in 16.500,00.
ved to a graduated employee of the Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta
DUALIFICATIONS/PUBLICATIONS AND INTERVIEW
5 July 2022 - 2:00 p.m. CEST
n presence at the Department of Experimental Medicine (DIMES), Biochemistry Section, Viale Benedetto XV,
- floor 1, 16132 Genoa or via Skype if requested by the candidate
The interview will cover topics of biochemistry, the presentation of any previous experience of the candidate in
he field of research, for the preparation of the thesis, or other, and the assessment of knowledge of the English
anguage by reading and translating an excerpt from a scientific article.
In vitro and in vivo studies of the metabolic effects and of the signal transduction pathway of the new human
hormone abscisic acid (grant funded by Università degli Studi di Genova and grant funded within PNRR 351 -
Azione Dottorati di ricerca PNRR).
Use of innovative approaches to correct the Cystic Fibrosis basic defect. Design and synthesis of molecules
that rescue the misprocessed CFTR protein (grant funded by Università degli Studi di Genova).
Monitoring and analysis of antibiotic resistance in marine environment (reserved place IZSPLV)
Boosting NAD biosynthesis to counteract aged-related diseases (grant funded within PNRR 352)
Antibiotic resistance of lactic bacteria in dairy products (reserved place IZSPLV)
Candidates must choose not less than one and not more than three reference persons to support their candidacy.
hese reference persons must be University professors or experts in the subject. It is responsibility of the
eference persons to send the reference letters, within the deadline of the call, to the Head of the curriculum of
he doctoral course at the following address:
Prof. Santina Bruzzone,
antina.bruzzone@unige.it
The personal details (name/surname, qualification, institution) of the reference persons must be reported by the
andidate in the application form.
Inglish
11511011
rof.ssa Santina Bruzzone
DIMES, Sez. Biochimica
Viale Benedetto XV1
6132 Genova
+39) 0103538150
antina.bruzzone@unige.it
vww.dms.unige.it

Curriculum: PHARMACOLOGY AND TOXICOLOGY (CODE 9289)

Course Coord	inator: Fedele Ernesto
Department of	Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)
Places: 2-Gra	
(*) 2 grants fur	nded by Università degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be	paid by the recipient, is € 16.500,00
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
assessment	
procedure	
Interview	19 July 2022 - h 02:30 p.m. CEST
	In presence at the Department of Pharmacy (DIFAR), Pharmacology and Toxicology Section, Viale Cembrano 4, III floor, 16148 Genova or via Skype if requested by the candidate
Exam Syllabus	The interview will focus on the candidate's previous experiences in the field of scientific research or during the preparation of the final dissertation; there will be also a critical discussion on the research project presented by the candidate. The knowledge of English Language will be assessed by reading and commenting part of a scientific article.
Research Themes	• Cross-talk between the central nervous system and the immune system with emphasis on the impact of complement on chemical synapses in an animal model of Multiple Sclerosis.
	• Modulation of glutamate and exosomes release by receptors and receptor heteromers in the central nervous systemunder physiological and pathological conditions.
Information on references	Candidates must choose not less than one and not more than three reference persons to support their candidacy. These reference persons must be University professors or experts in the subject. It is responsibility of the reference persons to send the reference letters, within the deadline of the call, to the Head of the curriculum of the doctoral course at the following address: Prof. Ernesto Fedele, <u>ernesto.fedele@unige.it</u>
	The personal details (name/surname, qualification, institution) of the reference persons chosen must be reported by the candidate in the application form.
Foreign	English
Languages	
Further	Prof. Ernesto Fedele
Information	University of Genoa
	DIFAR - Pharmacology and Toxicology Section
	Viale Cembrano 4
	16148 Genoa
	(+39) 0103532659
	ernesto.fedele@unige.it
	www.dms.unige.it

Course: EXPERIMENTAL MEDICINE

Curriculum: INTERNATIONAL CURRICULUM IN PHARMACOLOGY AND TOXICOLOGY (CODE 9291) Curriculum in agreement with Maastricht University, Maastricht, The Netherlands

Course Coordina	ator: Fedele Ernesto
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)	
Places: 1 - Gran	ts: 1 (*).
(*) 1 grant funde	d by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses
	recipient, is € 16.500,00
	course a joint qualification will be awarded with Maastricht University, Maastricht, The Netherlands.
	ant will be announced by the Maastricht University. The public notice of exam will be published at the addres s
	demictransfer.com/employer/UM/. Thus, there are overall two places available for the curriculum, 2 of which
with grants.	
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
assessment procedure	
Interview	18 July 2022 - h 09:30 a.m. CEST
	In presence at the Department of Pharmacy (DIFAR), Pharmacology and Toxicology Section, Viale Cembrano
	4, III floor, 16148 Genova or via Skype if requested by the candidate.
Exam Syllabus	The interview (in English) will focus on the candidate's previous experiences in the field of scientific research
	or during the preparation of the final dissertation; there will be also a critical discussion on the research project
	presented by the candidate.
Research	$\bullet \ Cellular \ neurobiology \ and \ molecular \ mechanisms \ of \ neurotransmission \ and \ physiopathological \ as \ pects \ of$
Themes	neurodegenerative diseases.
	• In-vivo and in-vitro models for the study of neurodegenerative diseases.
Information on	Candidates must choose not less than one and not more than three reference persons to support their
references	candidacy. These reference persons must be University professors or experts in the subject. It is responsibility
	of the reference persons to send the reference letters, within the deadline of the call, to the Head of the curriculum of the doctoral course at the following address:
	Prof. Ernesto Fedele
	ernesto.fedele@unige.it
	The personal details (name/surname, qualification, institution) of the reference persons must be reported by the
	candidate in the application form.
Foreign	English
Languages	
Further	Prof. Ernesto Fedele
Information	University of Genoa
	DIFAR - Pharmacology and Toxicology Section
	Viale Cembrano 4
	16148 Genoa
	(+39) 0103532659 ernesto.fedele@unige.it
	www.dms.unige.it
	www.unb.unigc.it

Curriculum: MOLECULAR AND CELLULAR PATHOLOGIES OF DISEASES CORRELATED TO AGEING (CODE 9290)

Course Coordin	ator: Fedele Ernesto
Department of E	xperimental Medicine (Dipartimento di Medicina Sperimentale – DIMES)
Places: 2-Gran	its: 2 (*).
(*) 2 grants fund	led by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses
to be paid by the	recipient, is € 16.500,00
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
assessment	
procedure	
Interview	21July 2022 - h 10.00 a.m. CEST
	In presence at the Department of Experimental Medicine (DIMES), General Pathology Section, via L.B. Alberti 2, 16132 Genova or via Skype if requested by the candidate.
Exam Syllabus	The interview will cover topics in the pathology of aging and is sues related to the research activity carried out
	by the candidate. Knowledge of the English language will be assessed by reading and translating a passage
	from a scientific article.
Research	• Role of heme oxygenase 1 in the melanoma response to BRAF inhibitors.
Themes	• Molecular mechanisms involved in memory formation and pathogenesis of Alzheimer's disease.
	• Molecular mechanisms underlying anticancer drug resistance.
Information on	Candidates must choose not less than one and not more than three reference persons to support their
references	candidacy. These reference persons must be University professors or experts in the subject. It is responsibility of the reference persons to send the reference letters, within the deadline of the call, to the Head of the curriculum of the doctoral course at the following address:
	Prof.ssa. Cinzia Domenicotti
	Cinzia.Domenicotti@unige.it
	The personal details (name/surname, qualification, institution) of the reference persons must be reported by the
	candidate in the application form.
Foreign	English
Languages	
Further	Prof.ssa Cinzia Domenicotti
Information	Università degli Studi di Genova
	DIMES - Sezione di Patologia Generale
	Via Leon Battista Alberti 2, 16132 Genova
	<u>Cinzia.Domenicotti@unige.it</u>
	www.dms.unige.it

Course: NEUROS CIENCES In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: CLINICAL AND EXPERIMENTAL NEUROS CIENCES (CODE 9292)

Course Coordinator: Nobi	li Flavio Mariano
	ces, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di
	e, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)
Places: 5 – Grants: 5 (*)	
	ersità degli Studi di Genova, the annual gross amount of the grant, including social security expenses
to be paid by the recipient, i	
	OGMI within Dipartimenti d'Eccellenza project, the annual gross amount of the grant, including
	be paid by the recipient, is \in 16.500,00
	.M. 351/2022 (Azione Dottorati di ricerca PNRR), under condition to the approval of Minis terial
	nount of the grant, including social security expenses to be paid by the recipient, is \in 16.500,00.
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	QUALITICATIONS/TUDLICATIONS AND INTERVIEW
Interview	July 27, 2022 - 2.30 p.m.
litter view	The interview will take place in person: Aula Multimediale della Clinica Neurologica, DINOGMI,
	Largo P. Daneo 3, Genova.
Further information on	In case of justified needs of the candidate, it can be done remotely with Microsoft Teams In the CV evaluation, the following items will be considered (according to relative importance):
how to present	1) Research project (an orginal research project in english signed by the candidate, on
qualifications/publications	Neuroscience topics related to the research topics of the call, of a maximum of 10 pages (A rial 11)
quantications/publications	character). The project must include: Background and Rationale, Experimental Plan, Expected
	Results, Timeline of the Project, References);
	2) Previous research work in the neuroscience field
	3) Graduation s core and degree thesis
	4) Publications in scientific journals with IF
	5) Recommendation letters
	6) Prizes
Exam Syllabus	Description and defense of the research project proposed by the candidate.
Research Themes	a) Neurology: multiple sclerosis and immuno-dependent CNS and PNS diseases, CNS degenerative
Research Thenks	diseases, epilepsy, sleep disorders, cerebrovascular diseases, extrapyramidal diseases and Parkinson
	disease;
	b) Psychiatry: affectivity disorders; obsessive compulsive disorder, schizophrenia, manic-
	depressive psychosis;
	c) Genetics of neurological disease;
	d) Developmental neurology: epilepsy, childhood cerebral palsy, autism spectrum disorder,
	extrapyramidal diseases, neuromuscular diseases;
	e) Neuroimaging: conventional MR and molecular imaging studies of neurological and psychiatric
	disorders;
	t) Neuropharmacology of dementias;
	f) Neuropharmacology of dementias; g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neurotransmission
	g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neuro transmission
	g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neuro transmission and synaptic plasticity, neuroscience-applied nanotechnologies;
	 g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neuro transmission and synaptic plasticity, neuroscience-applied nanotechnologies; h) Adult stemcell biology and applications to the treatment of neurological disease;
Information on references	 g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neuro transmission and synaptic plasticity, neuroscience-applied nanotechnologies; h) Adult stemcell biology and applications to the treatment of neurological disease; i) Neuro-oncology: role of cancer stem cells in the development of brain tumors and their
Information on references	 g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neuro transmission and synaptic plasticity, neuroscience-applied nanotechnologies; h) Adult stemcell biology and applications to the treatment of neurological disease; i) Neuro-oncology: role of cancer stem cells in the development of brain tumors and their pharmacological characterization. Candidates should provide at least one and no more than 3 recommendation letters in support of their application. Letters should be provided by University Professors or Experts in Neuroscience.
Information on references	 g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neuro transmission and synaptic plasticity, neuroscience-applied nanotechnologies; h) Adult stemcell biology and applications to the treatment of neurological disease; i) Neuro-oncology: role of cancer stem cells in the development of brain tumors and their pharmacological characterization. Candidates should provide at least one and no more than 3 recommendation letters in support of
Information on references	 g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neuro transmission and synaptic plasticity, neuroscience-applied nanotechnologies; h) Adult stemcell biology and applications to the treatment of neurological disease; i) Neuro-oncology: role of cancer stem cells in the development of brain tumors and their pharmacological characterization. Candidates should provide at least one and no more than 3 recommendation letters in support of their application. Letters should be provided by University Professors or Experts in Neuroscience.
Information on references	 g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neuro transmission and synaptic plasticity, neuroscience-applied nanotechnologies; h) Adult stemcell biology and applications to the treatment of neurological disease; i) Neuro-oncology: role of cancer stem cells in the development of brain tumors and their pharmacological characterization. Candidates should provide at least one and no more than 3 recommendation letters in support of their application. Letters should be provided by University Professors or Experts in Neuroscience. Letters should be sent to the coordinator of the "Clinical and experimental Neuroscience curriculum": Prof. Tullio Florio: tullio.florio@unige.it;
Information on references	 g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neuro transmission and synaptic plasticity, neuroscience-applied nanotechnologies; h) Adult stemcell biology and applications to the treatment of neurological disease; i) Neuro-oncology: role of cancer stem cells in the development of brain tumors and their pharmacological characterization. Candidates should provide at least one and no more than 3 recommendation letters in support of their application. Letters should be provided by University Professors or Experts in Neuroscience. Letters should be sent to the coordinator of the "Clinical and experimental Neuroscience curriculum":
Information on references	 g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neuro transmission and synaptic plasticity, neuroscience-applied nanotechnologies; h) Adult stemcell biology and applications to the treatment of neurological disease; i) Neuro-oncology: role of cancer stem cells in the development of brain tumors and their pharmacological characterization. Candidates should provide at least one and no more than 3 recommendation letters in support of their application. Letters should be provided by University Professors or Experts in Neuroscience. Letters should be sent to the coordinator of the "Clinical and experimental Neuroscience curriculum": Prof. Tullio Florio: tullio.florio@unige.it;
Information on references	 g) Neurophysiology and neurobiology: cellular and molecular mechanisms of neuro transmission and synaptic plasticity, neuroscience-applied nanotechnologies; h) Adult stemcell biology and applications to the treatment of neurological disease; i) Neuro-oncology: role of cancer stem cells in the development of brain tumors and their pharmacological characterization. Candidates should provide at least one and no more than 3 recommendation letters in support of their application. Letters should be provided by University Professors or Experts in Neuroscience. Letters should be sent to the coordinator of the "Clinical and experimental Neuroscience curriculum": Prof. Tullio Florio: tullio.florio@unige.it; and at the same time to Dr. Maria Paola Fenu: mpfenu@unige.it

Further Information	Further information can be requested to the coordinator of the "Clinical and experimental
	Neuroscience curriculum":
	Prof. Tullio Florio (<u>tullio.florio@unige.it</u>)
	or to Dr. Maria Paola Fenu (<u>mpfenu@unige.it</u>)

Course: NEUROS CIENCE In Agreement with Istituto Italiano di Tecnologia (IIT)

Curriculum: NEUROS CIENCE AND NEUROTECHNOLOGIES (CODE 9293)

Coordinator No	bili Flavio Mariano
	leuros cienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili (DINOGMI)
Positions: 5–Gra	
	and by the Italian Institute of Technology (IIT), the annual amount of the grant, gross of social security charges
	cipient, is $\in 16.500,00$
Methods of	QUALIFICATIONS/PUBLICATIONS
comparative	QUALIFICATIONS/FUBLICATIONS
evaluation	
Further	The followingg documents must be sent as described in the call text:
information on	
	i C
how to prepare the application	c) postgraduate research activities (including abstracts at conferences and scientific publications);
the apprication	
	d) an original research project in English signed by the candidate, on Neuroscience topics related to the research topics of the call, of a maximum of 10 pages (Arial 11 character). The project must include:
	Background and Rationale, Experimental Plan, Expected Results, Timeline of the Project, References;
	e) names, qualification and places of employment of the referees, not less than 1 and not more than 3, who
	must send the reference letters on the candidate directly to the following mail address:
	rossana.ciancio@iit.it
	f) declaration of knowledge of English as used in the PhD school.
Research	1) Physiopathology of neuronal excitability and synaptic plasticity in murine and human models of
themes:	neurological diseases.
ulemes.	Tutor: Fabio Benfenati
	fabio.benfenati@iit.it
	2) Role of GABAergic transmission in ageing.
	Tutor: Laura Cancedda
	laura.cancedda@iit.it
	3) Optical dissection of brain circuits underlying sensory perception"
	Tutor: Tommaso Fellin
	tommaso.fellin@iit.it
	4) Investigation of the molecular and circuit substrates of behavioral flexibility
	Tutor: Raffaella Tonini
	raffaella.tonini@iit.it
	5) Hybrid synapses for vision (HyVis)
	Tutor: Elisabetta Colombo
	elisabetta.colombo@iit.it
Information	Candidates must choose not less than one and not more than three Referees to support their application. These
about	contacts must be university professors or experts in the field. The Referees must be responsible for s ending
references	the reference letters as pdf files, within the deadline of the call, to the contact person of the Curriculum in
	Neuroscience and Brain Technologies, Prof. Fabio Benfenati, to the following mail address:
	rossana.ciancio@iit.it
	In the application, candidates have to list the name, position and affiliation of the chosen Referees.
Foreign	English
language	
Further	For further information, please write to: ross ana.ciancio@iit.it
information	

Course: NEUROS CIENCES In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: MOTORY AND SPORTS ACTIVITIES SCIENCES (CODE 9294)

Course Coordinator: Nobi	li Flavio Mariano
	ces, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di
	e, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)
Places: 8(°) – Grants: 6(*	
	iversità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the r	
	NOGMI, 1 grant within Dipartimenti d'Eccellenza project, the annual gross amount of the grant,
	benses to be paid by the recipient, is \in 16.500,00
	azione Italiana Sclerosi Multipla-FISM ONLUS, the annual gross amount of the grant, including
	be paid by the recipient, is \in 16.500,00
	.M. 352/2022 (cofunded by Swhard Srl), under condition to the approval of Ministerial funding; the
	grant, including social security expenses to be paid by the recipient, is $\in 16.500,00$. (°°)
	mployee by ASST di Cremona
	nployee by IRCCS Ospedale San Raffaele
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	QUALIFICATIONS/TUDLICATIONS AND INTERVIEW
Interview	July 19, 2022 – 2.30 p.m.
Inter view	Human Physiology
	Dept. of Experimental Medicine
	Viale Benedetto XV, n. 3
	I-16132 Genoa (Italy)
Further information on	Evaluation of qualifications will concern:
how to present	1. Graduation marks of the second cycle (Master's) degree
qualifications/publications	2. Curriculum Vitae (included graduation thesis in pdf format)
quantications/publications	3. Research experience at universities or research centers
	4. Scientific publications
	5. Research program submitted by the applicant
Exam Syllabus	The oral examination will be divided into two parts: 1) a scientific interview on the research topics
	of this PhD program, and on the applicant's research project, that will be evaluated on the basis of
	project contents, design, feasibility, and relevance for research topics related to this notice of
	competition; and 2) a motivational interview.
Research Themes	The main research topics concern:
	1) Motor performance, motor learning and sensorimotor integration, movement kinematics,
	postural analysis, morphological and functional imaging
	2) Sport performance: methodological approach to sport performance, relationships between
	physiological parameters, training and physical performance; sports nutrition.
	3) Development of a system for the definition, management and the execution of exercises for the
	rehabilitation and maintenance of joint function through a wearable device with high ergonomics
	and continuous use (grant funded within D.M. 352/2022) (°°)
Information on references	Applicants must submit from one to three letters of referees to support their application, which
	have to be sent to:
	Prof. Piero Ruggeri,
	Sezione di Fisiologia Umana, Dipartimento di Medicina Sperimentale (DIMES)
	Viale Benedetto XV, n. 3, 16132 Genova.
	e-mail: <u>ruggeri@unige.it</u>
	Tel.: 010-3538185
	Fax: 010-3538194
	and to:
	Dott.ssa Maria Paola Fenu
	e-mail: mpfenu@unige.it
Foreign Languages	English

Further Information	Prof. Piero Ruggeri, Sezione di Fisiologia Umana, Dipartimento di Medicina Sperimentale (DIMES), Viale Benedetto XV, n. 3, 16132 Genova. e-mail: <u>ruggeri@unige.it</u> Tel.: 010-3538185, Fax: 010-3538194
	The winner of one of the grants funded by DINOGMI will carry out his activities in the Savona Campus, at the Rehelab laboratory and will be centered on the implementation of immersive virtual reality in the evaluation and treatment of musculoskeletal disorders.

 $\binom{\circ\circ}{1}$ 1 grant added following the agreement dated 13.06.2022

Curriculum: BIOSTATISTICS AND METHODS FOR ANALYSIS OF BIG DATA (CODE 9295)

Course Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 1–Grants: 1 (*)	
(*) 1 grant funded by Unive	rsità degli Studi di Genova, the annual gross amount of the grant, including social security expenses
to be paid by the recipient, is	s € 16.500,00
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	19/07/2022 at 9:00 am remotely on Microsoft Teams
Further information on	Remember that by qualifications we mean the information contained in the application and in the
how to present	curriculum vitae et studiorum, the research project, the further qualifications. The latter must not
qualifications/publications	exceed ten pages each.
Exam Syllabus	The tests will focus on topics related to research topics.
Research Themes	1. Models for the study of prognostic factors, effect modifiers and surrogate endpoints
	2. Meta analysis
	3. Models for the study of disability trajectories
	4. Methodological problems in the quantitative study of disease progression in chronic diseases
	5. Early markers of prognosis and response to treatment
	6. Methods for Big Data Analysis
Information on references	Candidates must choose not less than one and not more than three referees to support their
	candidature. These referees must be university professors or experts in the subject and it will be
	their concern to send reference letters, within the deadline of the public notice, to the contact
	person of the Doctoral Course Prof. Maria Pia Sormani at the following address:
	mariapia.sormani@unige.it
	The name, status and service place of the referees, chosen by the candidates, must be stated in
	their applications.
Foreign Languages	English
Further Information	Administrative contact person:
	Giuseppe Zara
	E-mail: giuseppe.zara@unige.it

Curriculum: EPIDEMIOLOGY AND VACCINE PREVENTION (CODE 9296)

Course Coordinator: Izzotti Alberto	
Department of Health Scien	ces (Dipartimento di Scienze della Salute – DISSAL)
Places: 1 – Grants: 1 (*)	
(*) 1 grant funded by DISSA	AL, the annual gross amount of the grant, including social security expenses to be paid by the
recipient, is € 16.500,00	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	19/07/2022 at 9:00 am remotely on Microsoft Teams
Further information on	Remember that by qualifications we mean the information contained in the application and in the
how to present	curriculum vitae et studiorum, the research project, the further qualifications. The latter must not
qualifications/publications	exceed ten pages each.
Exam Syllabus	The tests will focus on topics related to research themes.
Research Themes	1. Epidemiology of communicable diseases preventable by vaccination - Design, organization and
	evaluation of systems clinical-epidemiological and virological surveillance - Design,
	standardization and evaluation of molecular techniques for the detection and characterization of
	microorganisms - Use of mathematical models to evaluate the impact of preventive interventions.
	2. Immunological response to vaccine preparations - Design, standardization and evaluation of techniques for determine humoral response - Determinants of cell-mediated response - Clinical
	studies on monovalent and combined vaccines, inactivated and living attenuated, differently
	adjuvanted, administered by injection and mucosal routes, designed to assess their
	safety, tolerability, immunogenicity and efficacy - Association of different vaccine preparations
	and use of alternative schedules - studies on filed for the evaluation of the effectiveness.
	3. Role of vaccinations in infants, children, adults and the elderly - Detection of vaccination
	coveragerates - Monitoring of preventable cases.
	4. Regulatory and authorization aspects of vaccines - Ethical evaluations.
Information on references	Candidates must choose not less than one and not more than three referees to support their
	candidature. These referees must be university professors or experts in the subject and it will be
	their concern to send reference letters, within the deadline of the public notice, to the contact
	person of the Doctoral Course Prof. Giancarlo Icardi at the following address: <u>icardi@unige.it</u>
	The name, status and service place of the referees, chosen by the candidates, must be stated in
	their applications.
Foreign Languages	English
Further Information	Administrative contact person:
	Giuseppe Zara
	E-mail: giuseppe.zara@unige.it

Curriculum: INFECTIOUS AND TROPICAL DISEASES (CODE 9297)

Course Coordinator: Izzotti Alberto		
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)		
Places: 1 – Grants: 1 (*)	Places: 1–Grants: 1 (*)	
(*) 1 grant funded by Unive	rsità degli Studi di Genova, the annual gross amount of the grant, including social security expenses	
to be paid by the recipient, i	s € 16.500,00	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	19/07/2022 at 9:00 am remotely on Microsoft Teams	
Further information on	Remember that by qualifications we mean the information contained in the application and in the	
how to present	curriculum vitae et studiorum, the research project, the further qualifications. The latter must not	
qualifications/publications	exceed ten pages each.	
Exam Syllabus	The tests will focus on topics related to research topics.	
Research Themes	1. Infection in the immunocompromised host: epidemiological, diagnostic and therapy.	
	2. Antibiotic resistance and nosocomial infections: surveillance, epidemiology and clinical	
	management.	
	3. HIV infection: immunological changes, opportunistic infections, antiretroviral therapy.	
	4. Chronic liver disease HCV and related HBV	
	5. Tuberculosis: epidemiology and drug resistance	
Information on references	Candidates must choose not less than one and not more than three referees to support their	
	candidature. These referees must be university professors or experts in the subject and it will be	
	their concern to send reference letters, within the deadline of the public notice, to the contact	
	person of the Doctoral Course Prof. Matteo Bassetti at the following address:	
	matteo.bassetti@unige.it	
	The name, status and service place of the referees, chosen by the candidates, must be stated in	
	their applications.	
Foreign Languages	English	
Further Information	Administrative contact person:	
	Giuseppe Zara	
	E-mail: giuseppe.zara@unige.it	

Curriculum: FORENSIC AND OCCUPATIONAL MEDICINE (CODE 9298)

Course Coordinator: Izzot	ti Alberto
Department of Health Scien	ces (Dipartimento di Scienze della Salute – DISSAL)
Places: 1 – Grants: 1 (*)	
(*) 1 grant funded by Unive	rsità degli Studi di Genova, the annual gross amount of the grant, including social security expenses
to be paid by the recipient, i	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	19/07/2022 at 9:00 am remotely on Microsoft Teams
Further information on	Remember that by qualifications we mean the information contained in the application and in the
how to present	curriculum vitae et studiorum, the research project, the further qualifications. The latter must not
qualifications/publications	exceed ten pages each.
Exam Syllabus	The tests will focus on topics related to research topics.
Research Themes	Legal Medicine Topics:
	1) Management of medico-legal litigation in the health sector, with particular reference to damage
	from medical error and to the evaluation and prevention of nosocomial infections.
	2) Diagnosis of death, prevention and research applied to the study of the corpse subjected to
	diagnostic verification and judicial autopsy, with particular reference to sudden deaths from
	cardiac causes and suicides.
	3) Study and evaluation of the victim of sexual violence with the application of consolidated
	multidisciplinary protocols.
	4) Study and evaluation of the victim of abuse in the family with particular reference to the abuse
	of the elderly, women and children.
	5) Individual identification on living, corpse and biological traces, through the study of DNA.
	6) Clinical Legal Medicine with particular evaluation of the incapable patient.
	7) Evidence Based Medicine applied to Forensic Medicine.
	Occupational Medicine Topics:
	1) Workhygiene
	2) Assessment and prevention of occupational biological risk, with particular reference to the
	health service
	3) Assessment and prevention of chemical and carcinogenic risks in the workplace, with particular
	reference to the health service
	4) Occupational immunoprophylaxis
	5) Evidence Based Medicine applied to Occupational Medicine
	6) Study and validation of new digital tools for epidemiological surveillance of accidents at work
	and occupational diseases
	7) Allergology and specific immunotherapy in the workplace
	8) Study and prevention of night obstructive apnea syndrome (OSAS) in the occupational field
Information on references	
	candidature. These referees must be university professors or experts in the subject and it will be
	their concern to send reference letters, within the deadline of the public notice, to the contact
	person of the Doctoral Course Prof. Francesco Ventura at the following address:
	francesco.ventura@unige.it
	The name, status and service place of the referees, chosen by the candidates, must be stated in
E	their applications.
Foreign Languages	English
Further Information	Administrative contact person:
	Giuseppe Zara
	E-mail: giuseppe.zara@unige.it

Curriculum: NURSING (CODE 9299)

Course Coordinator: Izzotti Alberto	
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: $3(^{\circ})$ – Grants: $1(^{*})(^{\circ})(^{\circ\circ})$	
(*) 1 grant funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security	
expenses to be paid by the r	ecipient, is € 16.500,00
(°) 1 place reserved to employ	oyee of Istituto Europeo di Oncologia (IEO) <mark>(°)</mark>
(°) 1 place reserved to empl	oyee of Humanitas Mirasole Spa (^{°°})
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	19/07/2022 at 9:00 am remotely on Microsoft Teams
Further information on	Remember that by qualifications we mean the information contained in the application and in the
how to present	curriculum vitae et studiorum, the research project, the further qualifications. The latter must not
qualifications/publications	
Exam Syllabus	The tests will focus on topics related to research topics.
Research Themes	1. Patient safety and prevention of the risk of error in the care processes.
	2. Prevention of education and assistance to the person with chronic health problems
	3. Family and Patient Centred Care and Child and family Centred Care
	4. Innovative models for health skills training.
Information on references	Candidates must choose not less than one and not more than three referees to support their
	candidature. These referees must be university professors or experts in the subject and it will be
	their concern to send reference letters, within the deadline of the public notice, to the contact
	person of the Doctoral Course Prof. Annamaria Bagnasco at the following address:
	annamaria.bagnasco@unige.it
	The name, status and service place of the referees, chosen by the candidates, must be stated in
	their applications.
Foreign Languages	English
Further Information	Administrative contact person:
	Giuseppe Zara
	E-mail: <u>giuseppe.zara@unige.it</u>
(0) $(1 - 1)$ $(1 - 1)$ $(1 - 1)$ $(1 - 1)$ $(1 - 1)$	letter of intent dated 27.05.2022

(°) place added following the letter of intent dated 27.05.2022 (°°) place added following the agreement dated 21.06.2022

Curriculum: PREVENTION OF CANCER AND OF CHRONIC DEGENERATIVE DISEASES (CODE 9300)

Course Coordinator: Izzott	ti Alberto
Department of Health Sciences (Dipartimento di Scienze della Salute – DISSAL)	
Places: 2–Grants: 2 (*)	
(*) 1 grant funded by Università degli Studi di Genova and 1 grant funded by MIUR/DIMES, the annual gross amount of the	
grant, including social security expenses to be paid by the recipient, is € 16.500,00	
(*) 1 grant funded within D.M. 351/2022 (Azione Dottorati di ricerca PNRR), under condition to the approval of Ministerial	
	nount of the grant, including social security expenses to be paid by the recipient, is \notin 16.500,00.
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	19/07/2022 at 9:00 am remotely on Microsoft Teams
Further information on	Remember that by qualifications we mean the information contained in the application and in the
how to present	curriculum vitae et studiorum, the research project, the further qualifications. The latter must not
qualifications/publications	exceed ten pages each.
Exam Syllabus	The tests will focus on topics related to research topics.
Research Themes	1. Molecular epidemiology of tumors and other chronic degenerative diseases
	2. Dietary and pharmacological prevention of tumors
	3. Prevention of cardiovascular diseases, ophthalmological pathologies and neurogenerative forms
	4. Molecular alterations and tumors induced by cigarette smoking and their prevention
	5. Study of factors of genetic predisposition to tumors
Information on references	Candidates must choose not less than one and not more than three referees to support their
	candidature. These referees must be university professors or experts in the subject and it will be
	their concern to send reference letters, within the deadline of the public notice, to the contact
	person of the Doctoral Course Prof. Alberto Izzotti at the following address: <u>izzotti@unige.it</u>
	The name, status and service place of the referees, chosen by the candidates, must be stated in
	their applications.
Foreign Languages	English
Further Information	Administrative contact person:
	Giuseppe Zara
	giuseppe.zara@unige.it

Curriculum: LOGISTICS AND TRANSPORTATION (CODE 9304)

Course Coordinator: Ferra	ri Claudio
Centro del Mare	
Places: $8(^{\circ})$ – Grants: $8(^{*})$)
	iversità degli Studi di Genova, the annual gross amount of the grant, including social security
of Ministerial funding; the a	.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval annual gross amount of the grant, including social security expenses to be paid by the recipient, is \notin
	.M. 352/2022 (cofunded by CETENA), under condition to the approval of Ministerial funding; the grant, including social security expenses to be paid by the recipient, is \in 16.500,00.
(*) 1 grant funded within D	.M. 352/2022 (cofunded by CIRCLE), under condition to the approval of Ministerial funding; the
(*) 1 grant funded within D	grant, including social security expenses to be paid by the recipient, is € 16.500,00. .M. 352/2022 (cofunded by ITHACA), under condition to the approval of Ministerial funding; the
(*) 1 grant funded by ASPI	grant, including social security expenses to be paid by the recipient, is € 16.500,00. - Autostrade per l'Italia, the annual gross amount of the grant, including social security expenses to
be paid by the recipient, is € (*) 1 grant funded by CIELI to be paid by the recipient, i	within OPTIWISE project, the annual gross amount of the grant, including social security expenses
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	10.1 J. 1. 2022
Interview	19th July, 2022
	Interviews will start at 10 AM by remote via Teams
Further information on	Qualifications and publications must be attached to the application form.
how to present	
qualifications/publications	
Exam Syllabus	The interviews will assess the candidates' knowledge of the transport sector in its multidisciplinary
	aspects and their aptitude for scientific research as well as their understanding of the English
	language.
Research Themes	1. Competition and regulation in the transport sector
	2. States' intervention in transport and transport in frastructures as a tool to implement competitive,
	environmental and industrial policies
	3. Green strategies and green products
	4. Energy and environmental policies and strategies in shipping and ports
	5. Analysis and planning of rail transport systems
	6. Crisis management, social media marketing and sentiment analysis applied to the transport sector
	7. Optimization models and methods in the management of modal change nodes.
	8. Management of transport systems in case of infrastructural damages.
	9. Optimal use of transport infrastructure
	10. Dynamic programming models
	11. Shipbuilding Economics and Ship production markets
	12. Economic and Operational impact of new technologies on shipping markets
	13. Contractual models and practices in leisure shipbuilding: yacht building, repair and refit contracts.
	14. Corporate and business strategies in the Blue Economy
	15. Analysis and planning of transport and logistics systems with the use of autonomous vehicles
	16. Application and use of ITS technologies for the management of transport and logistics systems
	17. Technological innovation and environmental nudges for an integrated and sustain able urban
	mobility
	18. Policy and actions to reduce emissions in the logistics and transport sector
	Research theme for grant funded within D.M. 351/2022 - Azione Dottorati per la Pubblica Amministrazione: Port governance and regulation.
	Research theme for grant funded within D.M. 352/2022 by CETENA: New trends in the maritime industry also due to the introduction of potentially disruptive technologies and new business models.
	Research theme for grant funded within D.M. 352/2022 by CIRCLE: Energy transition in ports and transport in general, including new alternative fuels in the maritime sector, advanced cold iron ing

	systems, off-shore wind power, use of hydrogen in all modes of transport, energy communities, new related technologies, related technical and socio-economic analyses.
	Research theme for grant funded within D.M. 352/2022 by ITHACA: Development of innovative geospatial methodologies for analysis of the logistics, transport and maritime sectors.
	Research theme for grant funded ASPI - Autostrade per l'Italia: Transport an alyses, als o using simulation models, within the Genoa Metropolitan area, integrating different urban transport flows to identify integrated sustainable mobility solutions.
	Research theme for grant funded by CIELI within OPTIWISE project: Economic assessment of wind and solar propulsion.
Information on references	Letters of reference should be sent to:
	<u>cieli@unige.it</u>
	<u>claudio.ferrari@unige.it</u>
Foreign Languages	English

Curriculum: MARINE ECOSYSTEM SCIENCES (CODE 9306)

Course Coordin	nator: Ferrari Claudio		
Centro del Mare			
Places: $5(^{\circ}) - 0$			
	led by Università degli Studi di Genova, the annual gross amount of the grant, including social security		
expenses to be paid by the recipient, is € 16.500,00			
	(*) 1 grant funded within D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the		
approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the			
recipient, is € 16			
(*) 2 grants cof	unded by Università degli Studi di Genova/SZN (Stazione zoologica Anton Dohrn); the annual gross amount		
	luding social security expenses to be paid by the recipient, is \in 16.500,00.		
	served to employee of Acquario di Genova (Costa Edutainment)		
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW		
assessment			
procedure			
Interview	20.7.2022 at the Department of Earth, Environmental and Life Sciences (DISTAV), Palazzo delle Scienze,		
	Prof. Vezzulli's Office, 4th floor, Corso Europa 26, Genoa.		
	The interview can take place on request also electronically (video conference via SKYPE) by contacting the		
	Prof. Luigi Vezzulli at least a week before by e-mail (luigi.vezzulli@unige.it)		
Exam Syllabus	The interview will focus on the discussion of the candidate's curriculum and the research project with		
	particular reference to the relevance of the proposed activities with the research themes of the doctorate, the		
	scientific content, the innovativeness and the feasibility of their realization.		
Research	Theme 1: Zoology of marine organisms, in particular Porifera		
Themes	Theme 2: Structural and Functional analysis of marine plankton communities in LTER Italian marine sites		
	Theme 3: Biotechnological exploitation of marine sponges		
	Themes 2 and 3 envisage an 18-month period of study and research at the zoological station in Naples		
	The position founded by DM 351 will focus on "Digitisation and valorisation of research results and public		
	collections of the Public Administration"		
	Non-priority research topics may also concern basic and applied aspects relevant for the study and		
	conservation of marine biodiversity, the protection and enhancement of coastal and oceanic ecosystems, the		
	$management \ and \ mitigation \ of \ coastal \ risk \ and \ environmental \ monitoring, \ development \ and \ application .$		
	Marine biotechnology, analysis and control of risks to the health of marine ecosystems (also in relation to		
	human health) and the sustainable exploitation of marine ecosystem resources and services.		
Information	Candidates must choose not less than one and not more than three referees to support their application. The		
on references	referees must be university professors or experts in the subject. The referents will be responsible for sending		
	the reference letters, within the deadline of the call, to the following e-mail address: <u>luigi.vezzulli@unige.it</u> .		
	In the application for admission, candidates must indicate the name, qualification and place of employ ment		
	of the contact persons they have chosen.		
Foreign	English		
Languages			
Further	Contact Prof. Luigi Vezzulli, e-mail: luigi.vezzulli@unige.it		
Information			

Curriculum: NAVAL ARCHITECTURE AND MARINE ENGINEERING - MARINE TECHNOLOGIES (CODE 9303)

Course Coordinator: Ferrar	ri Claudio
Centro del Mare	
Places: $3(^{\circ})$ – Grants: $2(^{*})$	
expenses to be paid by the re	
(°) 1 position reserved to em	ployee of Marina Militare Italiana
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	18.07.2022–ore 9:00 at Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Polo Navale, via Montallegro 1, Genova The interview can take place on request also electronically (video conference via MS Teams) by contacting Prof. Cesare M. Rizzo at least one week before the interview date by e-mail (cesare.rizzo@unige.it)
Further information on	Applicants will:
how to present	1) submit a research project (maximum 10 pages A4 format);
qualifications/publications	2) an updated CV;
D (1)	Italian candidates not yet graduated must present the list with a score of the exams taken in the master degree.
Exam Syllabus	The interview will focus on the topics of the proposed research project and on related is sues.
Research Themes	The research topics concern the conception, design, construction and operation of ships and offshore units, surface and underwater, both conventional and non-conventional, with particular reference to the process of synthesis and integration of the various as pects involved and generally through a multidisciplinary approach. The list of proposed topics is available at: <u>https://corsi.unige.it/en/corsi/11353</u>
	Further information may be requested via e-mail (ces are.rizzo@unige.it)
Information on references	Candidates must choose not less than one and not more than three referees to support their application. The referees must be university professors or experts in the subject. Referees shall directly send endorsement letters, within the deadline of the notice, to the following address e-mail: cesare.rizzo@unige.it In their application, candidates must indicate the name, qualification and place of employment of the chosen referees.
Foreign Languages	English

Curriculum: ENGINEERING FOR MARINE AND COASTAL ENVIRONMENTS (CODE 9302)

Course Coordinator: Ferra	ri Claudio
Centro del Mare	
Places: 2 – Grants: 2 (*)	
	iversità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the re	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	25 July 2022 – 9:00 AM
	The interview will be held in person or electronically (Teams, Skype or Zoom) by contacting the
	secretariat of the PhD (<u>dottorato.dicca@unige.it</u>) and Prof. Giovanni Besio
	(giovanni.besio@unige.it) at least 15 days before the evaluation. To this end, the candidate must
	have a reliable internet connection, so as to allow the conduct of the test. In the event that the
	interviews are not completed during the day of 25th of July, a second session is scheduled for July the 26th at 9:00 AM
Further information on	The curriculum must be completed by a document from the university that issued the degree
how to present	(transcript of records) attesting to the courses and grades obtained throughout the candidate's
qualifications/publications	university education (BSc and MSc).
Ammondons, knowed and	The presentation of international language certifications (TOEFL, CPE, CAE, FCE,) attached to
	the curriculum is preferential.
	Candidates not yet in possession, at the deadline of the announcement, of the title that allows
	access to the PhD may submit additional documentation, which they deem more appropriate, in
	order to document their academic career.
Exam Syllabus	The interview, in English, consists of an in-depth scientific discussion on the research project, on
	the Curriculum and on the titles presented by the candidate, and is also aimed at verifying that the
Research Themes	candidate has adequate knowledge to deal profitably with the studies in the chosen curriculum.
Research Themes	The topics are those addressed in the curriculum "Engineering for Marine and Coastal Environments" described in detail in the course web page:
	Environments" described in detail in the course web page: http://dottorato.dicca.unige.it/eng/emaces and a list of possible projects can be found at
	http://dottorato.dicca.unige.it/eng/index.html
	The research project, of maximum 10 pages, should highlight the motivations and research
	interests of the candidate and contain a summary, a state of the art completed by the relevant
	publications, and the objectives of the activity.
Information on references	Applicants should choose no fewer than one and no more than three referees to support the
	application.
	One of the referees must be a faculty member of the curriculum committee
	(<u>http://dottorato.dicca.unige.it/eng/info/staff/comitatoemaces.html</u>) with whom the research project
	has been agreed upon. It will be the recencer in little of the reference to cond the letters of references with in the deadline of the
	It will be the responsibility of the referees to send the letters of reference, within the deadline of the call, to the secretariat of the PhD dottorato.dicca@unige.it and the coordinator of the curriculum
	giovanni.besio@unige.it
	In the application form, candidates must indicate the name, position and place of service of the
	references they have chosen.
	Letters of reference that are not submitted as required will not be considered.
Foreign Languages	English
Further Information	http://dottorato.dicca.unige.it/eng/emaces/
	Ciovanni Pacia ciovanni hacia Qunica it
	Giovanni Besio giovanni.besio@unige.it

Curriculum: FLUID MACHINES AND ENERGY SYSTEMS FOR MARITIME APPLICATIONS (CODE 9305)

Course Coordin	nator: Ferrari Claudio	
Centro del Mare	Centro del Mare	
Places: 3-Gra	nts: 3 (*)	
	(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
	ed within D.M. 352/2022 (cofunded by CETENA), under condition to the approval of Ministerial funding; amount of the grant, including social security expenses to be paid by the recipient, is \in 16.500,00.	
Comparative	QUALIFICATIONS/PUBLICATIONS	
assessment		
procedure		
Research	Research theme for grant funded within D.M. 352/2022 cofunded by CETENA: CFD CHT (Conjugate Heat	
Themes	Transfer) modelling for fluid-structure heat transfer in inhomogeneous flows in the naval field.	
Information	Applicants should choose no fewer than one and no more than three referees to support the application	
on references	The referees must be university professors or experts in the subject. Referees shall directly send	
	endorsement letters, within the deadline of the notice, to the following address e-mail: mass ardo@unige.it	
Foreign	English	
Languages		
Further	For further information please contact prof. Aristide Massardo (massardo@unige.it)	
Information		

Curriculum: NAVAL AND NAUTICAL DESIGN (CODE 9301)

Course Coordin	nator: Ferrari Claudio	
Centro del Mare		
Places: 2-Gra		
	led by Università degli Studi di Genova, the annual gross amount of the grant, including social security	
1 1	aid by the recipient, is € 16.500,00	
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
assessment		
procedure		
Interview	18/07/2022 10AM	
	Dipartimento Architettura e Design (DAD) - aula Vallega - Stradone Sant'Agostino 37 - Genova	
Research	Industrialization of the nautical product	
Themes	Sustainability of the nautical product	
	• Enhancement of the existing nautical heritage	
Information	Applicants should choose no fewer than one and no more than three referees to support the application	
on references	j i i j i i i j i i i i j i i i i i j i i i i i j i i i i i j i i i i i i j i i i i i i j i i i i i i i j i i i	
	endorsement letters, within the deadline of the notice, to the following address e-mail:	
	(<u>zignego@arch.unige.it</u>).	
	In the application form, candidates must indicate the name, position and place of service of the references	
	they have chosen.	
Foreign	English	
Languages		

Course: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia –

IIT)

Curriculum: DRUG DISCOVERY AND NANOBIOTECHNOLOGIES (CODE 9307)

Course Coordinatory Dive	Donoto
Course Coordinator: Riva	
	nd Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)
Places: 1 – Grants: 1 (*).	
€ 16.500,00.	e annual gross amount of the grant, including social security expenses to be paid by the recipient, is
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	26.7.2022 – 10:00 AM, at Istituto Italiano di Tecnologia, via Morego 30, 16163, Genova. The interview may take place electronically (Skype, Teams, etc.), for justified reasons. For the purpose of identification, the candidate has to show the original identity card (the same provided in the application).
	The justified request for videoconferencing must be sent no later than 19.7.2022 by e-mail to <u>phd_d3@iit.it</u> (subject: PhD_interview)
Further information on	Evaluable qualifications:
how to present	1. educational qualifications with marks;
qualifications/publications	2. transcript of records (list of exams with marks);
	3. recommendation letters (maximum three);
	4. research project written in English;
	5. curriculumvitae et studiorum;
	6. additional qualifications (postgraduate qualifications, publications in scientific journals,
	congress presentations, patents, study or research awards).
	All candidates have to attach to the application the certificates related to all the academic
	qualifications, reporting the mark and duration of the study cycles. For students not yet graduated,
	who are admitted sub condicione, the presentation of the certificate is required with the marks
	obtained in the individual exams.
	Foreign applicants must also clearly report the number of years corresponding to each cycle of
	studies carried out before enrolling in the University.
	In case of admission to the doctorate, the candidate will carry out his research not necessarily on the analysis doctribution described in the presented
	the specific activities described in the project he/she has presented.
Exam Syllabus	The candidate will discuss in English the research project he/she has presented. The Committee will evaluate the research project for its originality, feasibility, methodology, timeline and relevance within the research topics listed in the call. In this way, the Committee will be able to evaluate the candidate's attitude to develop a scientific project. The interview will allow the Committee to ascertain the candidate's knowledge of English
	language.
Research Themes	Design, synthesis, and development of biologically active compounds acting as new potential
	drugs or molecular probes for pharmacological targets involved in diseases with limited therapeutic options.
Information on references	Candidates must provide not less than one and not more than three recommendation letters to
	support their application. The referees are university professors or experts in the research topics of
	the PhD course and they must provide the letters within the deadline of the call, exclusively by e-
	mail to <u>phd_d3@iit.it</u> (subject: PhD_letter).
	The name, status and place of employment of the referees of the recommendation letters must be
	stated in the application.
Foreign Languages	English
Further Information	Dr. Tiziano Bandiera
	tiziano.bandiera@iit.it
	Administrative contact person
	Dr. Ilaria Rapone
	(+39) 0102896772
	<u>ilaria.rapone@iit.it</u>

Course: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: NANOCHEMISTRY (CODE 9308)

Course Coordinator: Riva	Renata
	nd Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)
Places: 8–Grants: 8 (*)	
	he annual gross amount of the grant, including social security expenses to be paid by therecipient,
Comparative assessment	QUALIFICATIONS/PUBLICATIONS
procedure	
Further information on	Evaluable qualifications:
how to present	1. educational qualifications with marks;
qualifications/publications	2. transcript of records (list of exams with marks);
	3. recommendation letters (maximum three);
	4. research project written in English;
	5. curriculum vitae et studiorum;
	6. additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards).
	All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet graduated, who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams. The provision of the title and a short M.Sc. thesis abstract is recommended.
	Foreign applicants must also clearly report the number of years corresponding to each cycle of
	studies carried out before enrolling in the University. In case of admission to the doctorate, the candidate will carry out his research not necessarily in the
	specific activities described in the project he/she has presented.
Research Themes	1. Development of colloidal nanocrystals and nano-heterostructures for energy related
ikeseta en menkes	applications.
	2. Electrochemical processes for water splitting and electric fuels production.
	3. Spatial modulators and metasurfaces based on 2D and van der Waals materials (ERC Starting
	Grant "SubNanoOptoDevices").
	4. Reshaping the energy landscape of giant-shell semiconductor nanocrystals via light-matter hybridization (ERC Consolidator Grant "REPLY").
	5. Design of nanomaterials/nanostructures and photonic cavities for light-matter interaction.
	6. Electron microscopy studies of nanocrystals for energy applications.
	7. Synthesis of smart polymers and their use for the controlled assembly of inorganic
	nanoparticles.
	8. From macro- to micro-batteries.
Information on references	Candidates must provide not less than one and not more than three recommendation letters to
	support their application. The authors are university professors or experts in the research topics of
	the PhD course and they must provide the letters within the deadline of the call, exclusively by e-
	mail to <u>phd_nach@iit.it</u> (subject: PhD_letter).
	The name, status and place of employment of the authors of the recommendation letters must be
	stated in the application.
Foreign Languages	English
Further Information	Further information on the research themes: <u>https://chimica.unige.it/en/node/1327</u>
	Administrative contact person Dr. Iulia Manolache
	Tel: (+39) 0102896718
	<u>iulia.manolache@iit.it</u>

Course: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS

In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: SCIENCE AND TECHNOLOGY OF MATERIALS (CODE 9309)

Course Coordinator: Riva Renata	
	nd Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)
Places: 3– Grants: 3 (*).	
to be paid by the recipient, i (*) 1 grant funded within	D.M. 351/2022 (Azione Dottorati per il patrimonio culturale), under condition to the approval of
Ministerial funding; the ann 16.500,00.	ual gross amount of the grant, including social security expenses to be paid by the recipient, is \in
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	21.7.2022 – 9:00 AM, at Department of Physics (Dipartimento di Fisica – DIFI), via Dodecaneso 33, 16146, Genova.
	The interview may take place electronically (Skype, Teams etc.), for justified reasons. For the purpose of identification, the candidate has to show the original document (the same provided in the application).
	The justified request for videoconferencing must be sent no later than 14.7.2022 by e-mail to relini@fisica.unige.it (subject: PhD_interview).
Further information on	Evaluable qualifications:
how to present	1. educational qualifications with marks;
qualifications/publications	2. transcript of records (list of exams with marks);
	 recommendation letters (maximum three); research project written in Italian or English;
	5. curriculum vitae et studiorum;
	6. additional qualifications (postgraduate qualifications, publications in scientific journals, congress
	presentations, patents, study or research awards).
	All candidates have to attach to the application the certificates related to all the academic qualifications, reporting the mark and duration of the study cycles. For students not yet gradu at ed,
	who are admitted sub condicione, the presentation of the certificate is required with the marks obtained in the individual exams.
	Foreign applicants must also clearly report the number of years corresponding to each cycle of studies carried out before enrolling in the University.
	In case of admission to the doctorate, the candidate will carry out his research not necessarily in the specific activities described in the project he/she has presented.
Exam Syllabus	The candidate will discuss with the Committee the research project he/she has presented. The
	Committee will evaluate the research project for its originality, feasibility, methodology, time line and relevance within the research topics listed in the call. In this way the Committee will be able to
	evaluate the candidate's attitude to develop a scientific project. During the presentation the Committee will ascertain the candidate knowledge of English language.
Research Themes	Experimental investigation and modelling of metallic, ceramic, polymeric, composite, biomolecular
	and biocompatible materials. Correlations between methods of production (synthesis, film deposition, crystal growth), structural, morphological, chemical-physical characteristics and
	functional properties will be studied. As regards the functional aspects, materials for photonics and
	plasmonics, high temperature superconductors, materials for hydrogen production and storage,
	heterogeneous catalyst materials, electronic and magnetic devices, protective coatings, biomaterials
	will be studied. Characterization will concern structural, electronic and morphologic properties of
	materials even in the form of thin and ultrathin films and multilayers, with regard to growth and
	nanostructuring mechanisms. Crystal-chemical, electrochemical, thermal, magnetic and transport properties, and the microscopic study of tribological processes will also be considered. The
	technological aspects of new industrial, environmental and metallurgical catalytic processes will be
	studied and developed. All the above-mentioned themes will be developed both in basic and applied research (industrial processes, sensors, devices, conservation of cultural heritage etc.).
	Polysaccharides Gels in the Cultural Heritage field: correlation between structure/properties and their application in cleaning methods (research theme for grant funded within D.M. 351/2022 - Azione Dottorati per il patrimonio culturale). Further information on the research theme DM 351: <u>https://chimica.unige.it/en/node/1327</u> .

Information on references	Candidates must provide not less than one and not more than three recommendation letters to support their application. The authors are university professors or experts in the research topics of the PhD course and they must provide the letters within the deadline of the call, exclusively by e-mail to relini@fisica.unige.it (subject: PhD_letter). The name, status and place of employment of the authors of the recommendation letters must be stated in the application.
Foreign Languages	English
Further Information	Prof. Annalisa Relini (+39) 0103356427 relini@fisica.unige.it Administrative contact person Dr. Stefano Benetto (+39) 0103356138 dottorato_STCM@unige.it

Course: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS

In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: CHEMICAL SCIENCES AND TECNOLOGIES (CODE 9310)

Course Coordinator: Riva	
	nd Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)
Places: 12(°) – Grants: 11	
(*) 5 grants funded by Univ to be paid by the recipient, i	ersità degli Studi di Genova, the annual gross amount of the grant, including social security expenses $s \in 1650000$
	/DCCI, the annual gross amount of the grant, including social security expenses to be paid by the
recipient, is € 16.500,00.	
(*) I grant funded by DCCI, is \in 16.500,00.	, the annual gross amount of the grant, including social security expenses to be paid by the recipient,
	.M. 351/2022 (Azione Dottorati di ricerca PNRR), under condition to the approval of M in is terial nount of the grant, including social security expenses to be paid by the recipient, is \in 16.500,00.
	D.M. 351/2022 (Azione Dottorati per il patrimonio culturale), under condition to the approval of
Ministerial funding; the ann	α and β
16.500,00.	
	n D.M. 352/2022 (cofunded by: 1) Lamberti S.p.A., 2) H2 Energy S.r.l.), under condition to the
	ling; the annual gross amount of the grant, including social security expenses to be paid by the
recipient, is € 16.500,00.	
(°) 1 place reserved to empl	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	18.7.2022 – 9:00 AM, at Dipartimento di Chimica e Chimica Industriale (DCCI), via Dodecaneso 31, 16146 Genova.
	The interview may take place electronically (Skype, Teams etc.), for justified reasons. For the
	purpose of identification, the candidate has to show the original document (the same provided in
	the application).
	The justified request for videoconferencing must be sent no later than 11.7.2022 by e-mail to
	grotti@unige.it (subject: PhD_interview)
Further information on	Evaluable qualifications:
how to present	1. educational qualifications with marks;
qualifications/publications	2. transcript of records (list of exams with marks);
	3. recommendation letters (maximum three);
	4. research project written in Italian or English;
	5. curriculum vitae et studiorum;
	6. additional qualifications (postgraduate qualifications, publications in scientific journals, congress presentations, patents, study or research awards).
	All candidates have to attach to the application the certificates related to all the academic
	qualifications, reporting the mark and duration of the study cycles. For students not yet gradu at ed,
	who are admitted sub condicione, the presentation of the certificate is required with the marks
	obtained in the individual exams.
	Foreign applicants must also clearly report the number of years corresponding to each cycle of
	studies carried out before enrolling in the University.
	In case of admission to the doctorate, the candidate will carry out his research not necessarily in the
	specific activities described in the project he/she has presented.
Exam Syllabus	The candidate will discuss with the Committee the research project he/she has presented. The
	Committee will evaluate the research project for its originality, feasibility, methodology, time line
	Committee will ascertain the candidate knowledge of English language.
	and relevance within the research topics listed in the call. In this way the Committee will be able to evaluate the candidate's attitude to develop a scientific project. During the presentation the

Deservel Th	
Research Themes	1. Chemistry and physical chemistry of photoactive materials.
	2. Nanoparticles for technological applications.
	3. Synthesis and study of the crystal-chemical, thermal, magnetic and transport properties of
	oxides, nitrides and carbides.
	4. Determination of chemical species of environmental and oceanographic interest.
	5. Development of innovative chromatographic methodologies coupled to mass spectrometry.
	6. Analytical chemistry of trace elements.
	7. Chemistry of the polar environments.
	8. Diversity-oriented synthesis of biologically active compounds by chemical, enzy matic and organocatalytic reaction pathways.
	9. Synthesis and reactivity of heterocyclic compounds.
	10. Phase equilibria and thermodynamics of metallic materials: experimental and theoretical aspects.
	11. Intermetallic compounds: synthesis, structure, properties and technological applications.
	12. Advanced metallic materials.
	 Advanced metallic materials. Inorganic materials (metallic and refractory) for renewable energies.
	14. Polymeric, hybrid and nanocomposite materials.
	15. Polymer nanos tructures for photonics.
	16. Membranes and membrane processes.
	17. Synthesis of new organic ligands for nanoparticles functionalization (european project REMAP- Reusable mask patterning).
	 Electrochemical processes in smart magnetic fluids (research theme for grant funded within D.M. 351/2022 - Azione Dottorati di ricerca PNRR).
	19. The chemistry of metals applied to the investigation on archaeological findings (research the metal for grant funded within D M $251/2022$. A right D D to react a solution of the second
	 theme for grant funded within D.M. 351/2022 - Azione Dottorati per il patrimonio culturale). 20. New synthetic routes with low environmental impact of mild surfactants using raw materials from renewable sources (research theme for grant funded within D.M. 352/2022).
	21. Development of catalysts/electrodes for anion exchange membrane (AEM) electrolysers for H_2 generation (research theme for grant funded within D.M. 352/2022).
	22. Evaluation of the catalytic performances in the processes for the direct production of HVO
	(<i>Hydrotreated Vegetable Oil</i>) from biomass (research theme for place reserved to employee of AmSpec Italia S.r.l.).
	Further information on the research themes DM 351 and 352:
	https://chimica.unige.it/en/node/1327.
Information on references	Candidates must provide not less than one and not more than three recommendation letters to
intormation on references	support their application. The authors are university professors or experts in the research topics of
	the PhD course and they must provide the letters within the deadline of the call, exclusively by e -
	mail to <u>grotti@unige.it</u> (subject: PhD_letter).
	The name, status and place of employment of the authors of the recommendation letters must be
	stated in the applicat
Foreign Languages	English
Further Information	Prof. Marco Grotti
	(+39) 0103358708
	grotti@unige.it
	Administrative contact person
	Dr. Stefano Benetto
	(+39) 0103356138
	dottorato STCM@unige.it

Course: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: PHARMACEUTICAL, FOOD AND COSMETIC SCIENCES (CODE 9311)

Course Coordinator: Riva	Renata
	nd Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale – DCCI)
Places: 6-Grants: 6 (*)	
(*) 4 grants funded by Univ	ersità degli Studi di Genova, the annual gross amount of the grant, including social security expenses
to be paid by the recipient, i	s € 16.500,00
(*) 2 grants funded within	D.M. 352/2022 (cofunded by 1) Pirelli Tyre S.p.A., 2) Centro di Sperimentazione ed Assistenza
	mercio Industria Artigianato Agricoltura Riviere di Liguria), under condition to the approval of
0	ual gross amount of the grant, including social security expenses to be paid by the recipient, is \in
16.500,00.	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	27.7.2022 – 9:30 AM, at Dipartimento di Farmacia (DIFAR, locali ex-DISCIFAR), viale Benedetto
	XV 3, 16132 Genova.
	The interview may take place electronically (Skype, Teams etc.), for justified reasons. For the
	purpose of identification, the candidate has to show the original document (the same provided in
	the application).
	The justified request for videoconferencing must be sent no later than 20.7.2022 by e-mail to:
	guendalina.zuccari@unige.it (subject: PhD_interview)
Further information on	Evaluable qualifications:
how to present	1. educational qualifications with marks;
qualifications/publications	 transcript of records (list of exams with marks); recommendation letters (maximum three);
	4. research project written in Italian or English;
	4. research project whiten in Italian of English; 5. curriculum vitae et studiorum;
	6. additional qualifications (postgraduate qualifications, publications in scientific journals, congress
	presentations, patents, study or research awards).
	All candidates have to attach to the application the certificates related to all the academic
	qualifications, reporting the mark and duration of the study cycles. For students not yet gradu at ed,
	who are admitted sub condicione, the presentation of the certificate is required with the marks
obtained in the individual exams.	
	Foreign applicants must also clearly report the number of years corresponding to each cycle of
	studies carried out before enrolling in the University.
	In case of admission to the doctorate, the candidate will carry out his research not necessarily in the
	specific activities described in the project he/she has presented.
Exam Syllabus	The candidate will discuss with the Committee the research project he/she has presented. The
-	Committee will evaluate the research project for its originality, feasibility, methodology, time line
	and relevance within the research topics listed in the call. In this way the Committee will be able to
	evaluate the candidate's attitude to develop a scientific project. During the presentation the
	Committee will ascertain the candidate knowledge of English language.

Research Themes	1. Rational design and synthesis of biologically active compounds with potential interest as
Research memes	antineoplastics, antivirals, antimicrobials, CFTR modulators, and for the treatment of CNS and
	peripheral system diseases; modulators for the therapy of cystic fibrosis and anti diabetic
	agents.
	 Advanced computational methods applied to drug-target interaction study. Characterization and valorization of food, dietetic products and food supplements. Extraction,
	development and formulation of new food ingredients and/or foods.4. Design and synthesis of pharmacologically active cationic nanomaterials and/or capable of
	4. Design and synthesis of phantacologically active cationic nanonaterials and/of capable of solubilizing natural or synthetic insoluble therapeutics for drug delivery and applications in nanomedicine as antibacterial and/or antitumor devices.
	5. Design and development of micro- and nanodispersed systems or bioadhesive matrixes for
	drug delivery.
	6. Spectroscopic and hyperspectral-imaging methods for food and environmental applications. Development and application of chemometric methods of multivariate analysis and experimental design.
	7. Extraction and spectroscopic characterization of biologically active phytochemicals from
	aromatic and medicinal plants, as well as from biomass from agricultural waste and of the market of ornamental plants of territorial interest.
	8. Trace metals and human health (environment, food, drugs).
	9. Application of microwave technology and solvent free reactions in organic and inorganic
	syntheses, in extractive procedures according to the targets of green chemistry and green
	extractions for the preparation of bioactive cosmetic and pharmaceutical compounds. A
	particular focus is the exploitation of botanical matrices especially from agrofood by products.
	10. Preparation, characterization and development of pharmaceutical and galenic dosage forms.
	11. Innovative strategies of multivariate analysis and vibrational spectroscopy for an advanced
	characterisation of tyre materials (research theme for grant funded within D.M. 352/2022).
	12. Identification, purification and pre-formulation of plant compounds or extracts to be used in
	low agricultural impact plant protection (research theme for grant funded within D.M.
	352/2022).
	Further information on the research themes DM 352: <u>https://chimica.unige.it/en/node/1327</u>
Information on references	Candidates must provide not less than one and not more than three recommendation letters to
	support their application. The authors are university professors or experts in the research topics of
	the PhD course and they must provide the letters within the deadline of the call, exclusively by e-
	mail to <u>guendalina.zuccari@unige.it</u> (subject: PhD_letter).
	The name, status and place of employment of the authors of the recommendation letters must be
	stated in the application.
Foreign Languages	English
Further Information	Prof. Guendalina Zuccari
	(+39) 010 3352627
	guendalina.zuccari@unige.it
	Administrative contact person
	Dr. Stefano Benetto
	(+39) 0103356138
	dottorato STCM@unige.it

Course: SCIENCE AND TECHNOLOGY FOR THE ENVIRONMENT AND TERRITORY (STET)

Curriculum: BIOLOGY APPLIED TO AGRICULTURE AND TO THE ENVIRONMENT (CODE 9312)

Course Coordinator: Scan	nbelluri Marco
	ronmental and Life Sciences (Dipartimento di Scienze della Terra, dell'Ambiente e della Vita -
Places: $6(^{\circ})$ – Grants: $4(^{*}$)
(*) 2 grants funded by Univ	ersità degli Studi di Genova, the annual gross amount of the grant, including social security expenses
to be paid by the recipient, i (*) 1 grant funded by MUR	s € 16.500,00 /DISTAV, the annual gross amount of the grant, including social security expenses to be paid by the
recipient, is € 16.500,00	
	D.M. 351/2022 (Azione Dottorati per il patrimonio culturale), under condition to the approval of
	nual gross amount of the grant, including social security expenses to be paid by the recipient, is \in
16.500,00.	
	s employed by Angel Consulting s.a.s.
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	22.07.2022 at 9.30 (CET) in IT mode by contacting the curriculum manager in advance
Further information on	Qualifications are all information contained in the application and in the documents attached to it.
how to present	The application must include: a) the curriculum vitae et studiorum of the PhD candidate (maximu m
qualifications/publications	ten pages);
	b) a detailed research project concerning one of the Doctorate Research themes published in the
	official call for the XXXVII Doctorate Cycle in Science and Technology for the Environment and
	the Territory of the Genova University (maximum ten pages);
	c) a document containing the title and a brief description of the Master's thesis, together with the
	list of exams and their marks; d) the titles do purcenting the qualifications acquired by the PhD condidate during his/her corporates
	d) the titles documenting the qualifications acquired by the PhD candidate during his/her career that are relevant to the research project submitted and to the Doctorate Course (maximum ten pages);
	e) minimum one, up to three reference letters. In the application form candidates must indicate the
	names, qualification and Institution of referents writing the support letters.
	names, qualification and insutution of references writing the support letters.
	PhD candidates can apply in English and Italian.
Exam Syllabus	The interview will deal with:
	1- the knowledge of biological themes and processes. The topics covered during the discussion are
	both of general interest, as well as specific to the proposed research.
	2- the activity carried out by the PhD candidates during their course of study and during the
	Master's degree thesis, their level of knowledge of the related topics and of the analytical and
	experimental methodologies related to the Master Thesis and to research topic of the project
	presented;
	3- the research topic that the candidate aims at developing during the PhD.
	4 - the knowledge of the English language.
Research Themes	The candidate has to choose one of the following proposed themes. Projects on topics other than
	those listed below will be evaluated with zero points.
	1) Functional characterization of place and a large state of the second by 561, from the 1 state of the State
	1) Functional characterization of plant cytochromes b561: from as corbate homeostasis to flowering
	processes 2) Analysis of the Mediterranean Arthropod biodiversity changes based on funerary
	archeoentomological investigations
	3) Conservation of endemic species of endangered vascular flora, included in Annex2 of Directive
	43/92 (Research topic co-financed by DISTAV within the LIFE Seedforce project)
	4) Global Change and effects on the relationship insect/plant within the reproductive biology of
	endemic species
	5) Last generation Nature-based Solutions to improve the environmental quality of urban areas
	(research theme for grant funded within D.M. 351/2022 - Azione Dottorati per il patrimonio
	culturale)
	6) Safety assessment for aquatic and/or terrestrial organisms of sunscreen UV filters in cos metic
	6) Safety assessment for aquatic and/or terrestrial organisms of sunscreen UV filters in cos metic products (reserved for Angelconsulting s.a.s. personnel)

Information on references	In accordance with article 3 paragraph 3 of the call, the candidate must choose minimum one, up to
	three referents supporting their PhD application.
	In their application forms, the PhD candidates must indicate the name, qualification and Institution
	of each referent. Referents must be University professors and researchers, or well-known experts in
	the subject. Referents must send their letters in "pdf" format, within the deadline for submitting the
	application to Prof. Mauro Mariotti (<u>m.mariottii@unige.it</u> , the responsible for the Doctorate
	curriculum).
Foreign Languages	The research project can be written in Italian, English or French, but knowledge of the English
	language is required
Further Information	Further information is available on the PhD website (<u>http://www.distav.unige.it/phdstat/it</u>) or can
	be requested from:
	• Prof. Armando Carpaneto (<u>armando.carpaneto@unige.it</u>) for theme 1
	• Prof. Stefano Vanin (<u>stefano.vanin @unige.it</u>) for theme 2
	• Prof. Mauro Mariotti (<u>m.mariotti@unige.it</u>) for theme 3
	• Prof. Luigi Minuto (<u>luigi.minuto@unige.it</u>) for theme 4
	• Prof. Enrica Roccotiello (<u>Enrica.Roccotiello@unige.it</u>) for theme 5 (DM351)
	• Prof. Elena Grasselli (<u>elena.grasselli@unige.it</u>) for theme 6 and 7

Curriculum: EARTH SCIENCES (CODE 9313)

Course Coordinator: Scam	belluri Marco
Department of Earth, Envir	ronmental and Life Sciences (Dipartimento di Scienze della Terra, dell'Ambiente e della Vita -
DISTAV)	
Places: 3–Grants: 3 (*)	
	ersità degli Studi di Genova, the annual gross amount of the grant, including social security expenses
to be paid by the recipient, i	
	/DISTAV, the annual gross amount of the grant, including social security expenses to be paid by the
recipient, is € 16.500,00	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	22/07/2022 at 9,30 (CET) online interview (Teams or Skype).
	For information contact:
	Prof. Marco Scambelluri
	Dipartimento di Scienze della Terra dell'Ambiente e della Vita (DISTAV)
	(+39) 0103538307
	marco.scambelluri@unige.it
Further information on	By titles are meant all information contained in the application form and in the documents attached
how to present	to it. The application must be accompanied by:
qualifications/publications	a) the candidate's curriculum vitae et studiorum (maximum ten pages), with indication of the
	degree mark;
	b) a research project relating to one of the research topics published in the call for the
	XXXVIII cycle of the Doctorate in Sciences and Technologies for the Earth and the
	Environment of the University of Genoa (Earth Sciences curriculum; maximum ten
	pages);
	c) a document containing the title and an abstract of the Master's degree thesir, together with
	the list of exams taken and their marks;
	d) any additional documented qualification acquired during the candidate's career and
	relating to the proposed research project and to the research topics pertinent to the PhD
	Program(maximum ten pages);
	e) from minimum one to maximum three reference letters. In the application form candidates
	must indicate the names, qualification and Institution of referents writing the support
	letters.
	Candidates can write their project and application forms either in Italian or in English
Exam Syllabus	The interview will deal with:
	1. the general knowledge of geological themes, processes and topics of general interest and
	of specific interest to the proposed research;
	2. an in-depth discussion of the activity carried out by the PhD candidate during his/her
	studies and during the master degree thesis. The interview will also test the candidate's
	knowledge of basic topics, of analytical and work tools and of the experimental
	methodologies pertinent to the research topic dealt with in the project presented;
	3. the specific research topic that the candidate aims to develop during the research
	doctorate.
	4. an evaluation of the candidate's knowledge of the English language

Research Themes	The following list reports the titles of research topics on which the STAT Doctorate fellows hips
	(XXXVIII Cycle, Earth Sciences curriculum), are addressed.
	More detailed information on the research topics is available on the STAT PhD website
	(http://www.distav.unige.it/phdstat/it - Research topics).
	N.1 Fellowship co-funded with departmental and / or project grants. Projects on themes other than
	the one listed below will be evaluated with zero points:
	1) Reactive melt percolation and impregnation in the Oman mantle peridotites (Samail
	Ophiolite): petrologic and structural constraints.
	N. 2 PhD fellowships fully funded by the University of Genoa. Candidates must choose only one of
	the research topics listed below: projects on different topics will be evaluated with zero points.
	the research topics instead below. projects on different topics will be evaluated with zero points.
	2) Mineralogical and genetic features of secondary phosphates in cave environments
	3) Slicing and disruption of the oceanic lithosphere within subduction zones: structural
	investigations in exhumed HP examples from the western Alps.
	4) Study of the geosites and biosites of the Beigua UNESCO Geopark through the
	application of the concepts of natural capital and ecosystems ervices
	5) Terrestrial heat flow: a tool for geodynamic understanding and geothermal potential
	as sesment.
Information on references	In accordance with article 3 paragraph 3 of the call, the candidate must choose minimum one, up to
	three referents supporting their PhD application.
	In their application forms, the PhD candidates must indicate the name, qualification and Institution
	of each referent. Referents must be University professors and researchers, or well-known experts in
	the subject. Referents must send their letters in "pdf" format, within the deadline for submitting the
	application to Prof. Prof. Marco Scambelluri (<u>marco.scambelluri@unige.it</u> , the responsible for the
	Doctorate curriculum).
Foreign Languages	English
Further Information	Further information is available on the doctorate website (<u>http://www.distav.unige.it/phdstat/it</u>) and
	can be requested to
	Prof. Marco Scambelluri (<u>marco.scambelluri@unige.it</u>)
	• Prof. Elis abetta Rampone (<u>elis abetta.rampone@unige.it</u>) for theme 1
	• Prof. Cristina Carbone (<u>cristina.carbone@unige.it</u>) for theme 2
	• Prof. Laura Federico (<u>laura.federico@unige.it</u>) for theme 3
	• Prof. Pietro Marescotti (<u>pietro.marescotti@unige.it</u>) for theme 4
	• Prof. Massimo Verdoya (<u>massimo.verdoya@unige.it</u>) for theme 5

Curriculum: EARTH SCIENCES - CLOE Project (CODE 9314)

Course Coordinator: Scambelluri Marco

Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della Terra, dell'Ambiente e della Vita – DISTAV)

Places: 1(°) – Grants: 0

(°) 1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and conservation" GA n. 101034449. For more details, see the Marie Skłodowska Curie COFUND project website at https://cloe.dp.unige.it.

For the CLOE COFUND project, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 years of research career at the date of the recruitment and not have been already awarded a PhD degree before. ESRs have als o to satisfy the 'mobility rule': they must not have resided or carried out their main activity (work, study etc.) in Italy for more than 12 months in the three years prior to the date of recruitment. Compulsory national service, short stays such as holidays and time spent under a procedure to obtain refugee status under the Geneva Convention are not taken into account for the calculation.

Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	The interview of admitted candidates will remotely take place (using Microsoft TEAMS, SKYPE
	or other platform) on 22 July 2022, at 9.30 (CET).
	Further information will be provided via e-mail after 30 June 2022.
Further information on	Qualifications are all information contained in the application and in the documents attached to it.
how to present	The application must include:
qualifications/publications	a) a copy of a Valid Passport/ID
	 b) a translation of the academic qualifications duly notarized by the Italian diplomatic or consular office of the Country in which the qualifications were obtained and Declaration of Value of the qualifications prepared by the Italian diplomatic-consular Representatives, that is located in the Country where the qualifications were obtained. If the Italian diplomatic or consular office does not provide the documentation in time for the application, applicants should enclose all the documentation available (e.g. degree certificates, transcript of records); c) in case of qualifications issued by an EU contry, previous documents may be replaced by the Diploma Supplement delivered by the University which has issued the title, according to the standards of the EU and UNESCO/CEPES; d) Master thesis extended abstract (max 10 pages); e) Curriculum Vitae; f) Letter of Motivation; g) a self-declaration (https://cloe.dp.unige.it/en/application_package_2022) to demonstrate that they respect the MSCA mobility rule and the English language proficiency. The knowledge of foreign languages certified by an international certificate (TOEFL, CPE, CAE, FCE,); h) Research project proposal; i) Ethics self-as sessment (through the form available at the following link:
	https://cloe.dp.unige.it/en/application_package_2022; l) up to three letters of reference; m) Publication(s)/Patent(s)(optional; max5)
	Further information: https://cloe.dp.unige.it/en/application_package_2022.
Exam Syllabus	The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. The interview will deal with: 1- the knowledge of geomorphological and pedological themes and processes. The topics covered during the discussion are both of general interest, as well as specific to the proposed research. 2- the activity carried out by the PhD candidates during their course of study and during the Master's degree thesis, their level of knowledge of the related topics and of the analytical and experimental methodologies related to the Master Thesis and to research topic of the project presented; 3- the research topic that the candidate aims at developing during the PhD. 4 - the knowledge of the English language
	project's website at the following link: <u>https://cloe.dp.unige.it/en</u> .

Research Themes	For the CLOE COFUND PROJECT the candidate has to choose one of the two proposed themes
Research mentes	(n.1 or 2) for the preparation of the research project:
	Research Theme 1) Evaluation of geomorphological hazards and related risks in the Ligurian
	Apennines with particular emphasis on extreme events and abandonment processes;
	Research Theme 2) Assessment of soil lands cape sensitivity in relation to land use changes in
	Ligurian region (NW, Italy) over the last two centuries.
Information on references	Candidates must choose minimum one, up to three referents supporting their PhD application.
	In their application forms, the PhD candidates must indicate the name, qualification and Institution
	of each referent. Referents must be University professors and researchers, or well-known experts in
	the subject. Referents must send their letters in "pdf" format, within the deadline for submitting the
	application to CLOE supervisor: Prof. Ivano Rellini (<u>ivano.rellini@unige.it</u>)
Foreign Languages	English
For eigh Languages	Ŭ la
Further mormation	Within the three years of the Program (and, preferably, during the second year) PhD students shall
	spend at least 6 months abroad, or at qualified international training centers in Italy, doing research
	on the topic of their Phd dissertation (possibly also non-consecutive, but in any case – for each
	fraction – of adequate consistency).
	Further information is available on the PhD website
	(<u>http://www.distav.unige.it/phdstat/it</u>) and on the project website at the following link:
	https://cloe.dp.unige.it or can be requested to:
	<u>nupper doctoplangent</u> of our boroquebleuto.
	PhD coordinator: Prof. Marco Scambelluri (marco.scambelluri@unige.it);
	CLOE COFUND Supervisor: Prof. Ivano Rellini (<u>ivano.rellini@unige.it</u>).

Curriculum: ELECTRICAL ENGINEERING (CODE 9315)

Electrica, Electronica e delle Tele Places: 5 – Grants: 5 (*) (*) 2 grants funded by Univer expenses to be paid by the recip (*) 1 grant funded by MUR/DIT	rsità degli Studi di Genova, the annual gross amount of the grant, including social security
Places: 5 – Grants: 5 (*) (*) 2 grants funded by Univer expenses to be paid by the recip (*) 1 grant funded by MUR/DIT	rsità degli Studi di Genova, the annual gross amount of the grant, including social security pient, is € 16.500,00.
(*) 2 grants funded by Univer expenses to be paid by the recip (*) 1 grant funded by MUR/DI	pient, is € 16.500,00 .
expenses to be paid by the recip (*) 1 grant funded by MUR/DI	pient, is € 16.500,00 .
(*) 1 grant funded by MUR/DI	
recipient, is € 16.500,00.	
(*) 1 grant funded within D.M. 351/2022 (dottorati in programmi dedicati alle transizioni digitali e ambientali), under	
condition to the approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be	
paid by the recipient, is € 16.500	
	1. 352/2022 (cofunded by Phase Motion Control S.p.A.), under condition to the approval of
	gross amount of the grant, including social security expenses to be paid by the recipient, is $\ \in$
16.500,00.	
	UALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
	5 July 2022
	30 am
	elematic mode (Skype or similar software) by contacting Prof. Andrea Formentini, e-mail
	adrea.formentini@unige.it, within the day before the interview
	pplicants will have to submit:
	a research project up to 10 pages long; 2) an updated CV; 3) a short abstract of the master's
	esis, if available. Candidates who have not yet graduated must present the list and the marks of
	e exams passed in the master's degree program up to the moment of submission of the oplication.
	terview on the submitted research project, the PhD course topics, and the candidate's specific
•	terests in the field. English language test.
	A) Automation: industry, process and transport. Manufacturing plants modeling. Management,
mo	onitoring and control of electrical systems. Innovative techniques and optimization for ectromagnetic device design. Electric drives for robotics, manufacturing automation and
(B	cocesses. Advanced instrumentation and fieldbus applications. B) Energy: Protection from electrostatic hazard. Insulation defects evaluation with partial scharge measurement. Technical-economic evaluations for the energy market. Distributed
ge	eneration. Quality of service. Optimization algorithms, distribution management systems, load recasts and renewable energy resources, with methods based on artificial intelligence, data ining, big data and probabilistic safety assessment. Switches, machines, electric actuators and
ma	agnetic devices for energy storage. Static energy converters.) Electronics: Modeling of power electronic systems and components. Advanced control
teo	chniques for converters. Electrostatic discharge protection systems for electronic devices. complex systems modeling. Analysis and synthesis of circuits and nonlinear dynamic systems.
Νε	eural networks. Electronic systems design.
	D) Electromagnetic compatibility among electrical, power electronic and communications vstems. Modeling, simulation and measurement methods. Lightning current numerical modeling.
	ectromagnetic modeling with full Maxwell approach.
	b) Transport: Modeling for RAMS predictive analysis. Electrified systems for public transport.
	nergy management of electric and hybrid vehicles. Electric traction motor diagnostics. Electric
	ives for rail traction, road and ship propulsion.
) Environment: Numerical simulation and measurement and field reduction techniques.
	ptimized design of low emission devices. Low environmental impact systems. andidates must choose not less than one and not more than three referees to support the
	oplication. These referees must be university professors or experts in the subject and it will be
	eir concern to send reference letters, within the deadline of the public notice, to Prof. Andrea
	prmentini at the following address: <u>andrea.formentini@unige.it</u>
	he name, status and service place of the referees chosen by the candidates must be stated in their
	pplications.
1	nglish

Further Information	Prof. Mario Marchesoni
	University of Genova
	DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval
	Architecture)
	Via all'Opera Pia 11a, I-16145 - Genova, Italy
	mario.marchesoni@unige.it
	tel: +39 0103532183; fax: +39 0103532700;
	Laura Brunelli
	University of Genova
	DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval
	Architecture)
	Via all'Opera Pia 11a, I-16145 - Genova, Italy
	brunelli@dinav.unige.it
	tel: +39 0103532286; fax: + 39 0103532777

Course: SCIENCE AND TECHNOLOGY FOR ELECTRICAL ENGINEERING, COMPLEX SYSTEMS FOR MOBILITY

Curriculum: COMPLEX SYSTEMS FOR MOBILITY (CODE 9316)

Course Coordinator: Marc	chesoni Mario	
	Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale,	
Elettrica, Elettronica e delle	Telecomunicazioni – DITEN)	
Places: 2– Grants: 2 (*).		
(*) 1 grant funded by Unive	ersità degli Studi di Genova, the annual gross amount of the grant, including social security expen ses	
to be paid by the recipient, i		
	D.M. 352/2022 (cofunded by ABB), under condition to the approval of Ministerial funding; the	
	grant, including social security expenses to be paid by the recipient, is € 16.500,00.	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	27 July 2022	
	9.30 am	
	Telematic mode (Skype or similar software) by contacting Prof. Federico Silvestro, e-mail <u>federico.silvestro@unige.it</u> , within the day before the interview.	
Further information on	Applicants will have to submit:	
how to present	1) a research project up to 10 pages long; 2) an updated CV; 3) a short abstract of the master's	
qualifications/publications	thesis, if available. Candidates who have not yet graduated must present the list and the marks of	
quantications/publications	the exams passed in the master's degree program up to the moment of submission of the	
	application.	
Exam Syllabus	Interview on the submitted research project, the PhD course topics, and the candidate's specific	
	interests in the field. English language test.	
Research Themes	((A) Complex systems in electrical and naval engineering: electrical networks, naval systems,	
	automation systems. (B) Intelligent mobility of people and goods: planning aspects (for example	
	relating to local public transport, city logistics, etc.), simulation, of "intelligent" transport systems	
	(infomobility, AVM, V2V, V2I communication, etc.), evaluation of the transport external costs.	
	(C) Maritime and marine transport systems: systems to support navigation safety and development	
	of technologies and planning systems to support European policies of "Integrated Coastal Zone	
	Management" and "Maritime Spatial Planning". (D) Components and technological systems for	
	means of transport that allow to reduce the external costs of transport and to raise safety levels:	
	electric propulsion systems for road or rail electric and hybrid vehicles, management of the energy	
	flows of such vehicles, modeling for predictive RAMS analysis, traffic management and control	
	systems in constrained driving systems, electronics and electric traction drives. (E) Modeling of	
	complex systems: formulation/identification of mathematical models (starting from experiment al	
	data) and their analysis and numerical simulation. The models will mainly refer to the electrical	
	and naval sector, but they also may concern more general problems whose solution is of	
	application interest for these sectors (for example, electrical activity of neuron networks or	
T. C	circuits).	
Information on references	Candidates must choose not less than one and not more than three referees to support the	
	application. These referees must be university professors or experts in the subject and it will be their concerning to conduct the context to	
	their concern to send reference letters, within the deadline of the public notice, to the contact person of the Complex Systems for Mobility Curriculum at the following address:	
	federico.silvestro@unige.it	
	The name, status and service place of the referees chosen by the candidates must be stated in their	
	applications.	
Foreign Languages	Inglese	
Further Information	Prof. Federico Silvestro	
	University of Genova	
	DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval	
	Architecture) via all'Opera Pia, 11a, I-16145 - Genova, Italy	
	E-mail: <u>federico.silvestro@unige.it</u>	
	Tel: +39-010-353-2723; fax: +39-010-353-2700;	
	Laura Brunelli	
	University of Genova	
	DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval	
	Architecture)	
	Via all'Opera Pia 11a, I-16145 - Genova, Italy	
	brunelli@dinav.unige.it	
	tel: +39 0103532286; fax: + 39 0103532777 tel: +39 0103532286; fax: + 39 0103532777	

Course: SCIENCE AND TECHNOLOGY FOR ELECTRICAL ENGINEERING, COMPLEX SYSTEMS FOR MOBILITY

Curriculum: ELECTRICAL ENGINEERING – CLOE Project (CODE 9317)

Course Coordinator: Marc	hesoni Mario
Department of Marine, Ele	ectrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale,
Elettrica, Elettronica e delle Telecomunicazioni – DITEN)	
Places: $1(^{\circ})$ – Grants: 0	
(°) 1 position covered with Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND-2020 "CLOE - Training to complexity: multidisciplinary approaches to rural and mountain sustainable development and	
https://cloe.dp.unige.it.	034449. For more details, see the Marie Skłodowska Curie COFUND project website at
For the CLOE COFUND project, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4	
	he date of the recruitment and not have been already awarded a PhD degree before. ESRs have als o
than 12 months in the three	: they must not have resided or carried out their main activity (work, study etc.) in Italy for more years prior to the date of recruitment. Compulsory national service, short stays such as holidays and
	ure to obtain refugee status under the Geneva Convention are not taken into account for the
calculation.	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	The interview of admitted candidates will remotely take place (using Microsoft TEA MS, SK YPE or other platform) on 25 July 2022, at 9.30 (CET).
	Further information will be provided via e-mail after 14 July 2022.
Further information on	The application must include the following documents (.pdf format):
how to present	1. A copy of a Valid Passport/ID;
qualifications/publications	2. A translation of the academic qualifications duly notarized by the Italian diplomatic or consular
T	office of the Country in which the qualifications were obtained and Declaration of Value of the
	qualifications prepared by the Italian diplomatic-consular Representatives, that is located in the
	Country where the qualifications were obtained. If the Italian diplomatic or consular office does
	not provide the documentation in time for the application, applicants should enclose all the documentation available (e.g. degree certificates, transcript of records);
	3. In case of qualifications issued by an EU contry, previous documents may be replaced by the
	Diploma Supplement delivered by the University which has issued the title, according to the standards of the EU and UNESCO/CEPES;
	4. Master thesis extended abstract (max.10 pages);
	5. Curriculum Vitae;
	6. Letter of Motivation;
	7. A self-declaration (https://cloe.dp.unige.it/en/application_package_2022) to demonstrate that
	they respect the MSCA mobility rule, the ESR definition, and the English language proficiency (IELTS scores, TOEFL results, or proof of a degree awarded in English);
	8. Research project proposal (max. 10.000 charaters, including spaces, footnotes and references);
	9. Ethics self-assessment - through the form available at the following link:
	https://cloe.dp.unige.it/en/application_package_2022.
	10. Up to three letters of reference;
	11. Publication(s)/Patent(s) (optional; max. 5)
	From the CV and other documents enclosed the following datas hould result:
	a) University degree and the final note or qualification thereof;
	b) any other post-lauream degree (like, e.g., Master degrees);
	c) publications concerning one or more of the research topics of the present Curriculum, if any;
	d) research experiences and research and educational activities, if any.
	Further information on the submission of the applications are available on the project website at
	the following link: <u>http://cloe.dp.unige.it</u> .

Exam Syllabus	The comparative as sessment will be based on an evaluation of the candidate's qualifications, a
	research project and an interview designed to assess the skills and knowledge required for
	admission to a PhD programme. More specifically:
	- the RESEARCH PROJECT must fit clearly into one of the research topics singled out in the box
	"Research topics" below. Moreover, the project must contain (i) a clearly defined research
	problem, indicate (ii) basic methodological choices, list (iii) the main bibliography, and give (iv) a
	rough outline of the argument(s) the candidate will use to address the problem. In accordance with
	the selection rules for the PhD curriculum "Electrical Engineering", the research project (v) may be
	written in English, and (vi) it must not exceed 10.000 characters (including all spaces, bibliography
	and references), on penalty of exclusion from the competition.
	- The INTERVIEW will be used to discuss the research project presented by the candidate and its
	relation to the CLOE doctoral training programme.
	Further information on the CLOE doctoral training programme and the selection procedures are
	available on the CLOE website at the following link: <u>http://cloe.dp.unige.it</u> .
Research Themes	The candidate has to choose the proposed topic:
	Microgrid installation in rural environments to cope with electrical energy infrastructures'
	maintenance problems, due to depopulation and increased with pandemics emergency.
	Reconfiguration of energy provision grids to reduce their impact on cultural and natural heritage
	and minimize ground exploitation.
	Further information on the research theme and on the project proposal structure are available on
	the project's website at the following link: <u>http://cloe.dp.unige.it</u> .
	Candidates must provide up to three letters of reference (minimum one) supporting their
	application.
	The letters must be written by Academics, or Experts, in the research topics of the Curriculum.
	The retters must be written by Academics, of Experts, in the research topics of the Cuffic unit.
	They will send their letter of reference, within the deadline established in the Call, directly to the
	following addresses:
	renato.procopio@unige.it and marco.invernizzi@unige.it (with cloe.dp@unige.it in cc).
	In their application form, candidates must point out the name, the qualification, and the workplace
	of the persons that will write reference letters for them.
	English
Further Information	Within the three years of the Program (and, preferably, during the second year) PhD students shall
	spend at least 6 months abroad, or at qualified international training centers in Italy, doing research
	on the topic of their Phd dissertation (possibly also non-consecutive, but in any case - for each
	fraction – of adequate consistency).
	Curriculum coordinator:
	Prof. Mario Marchesoni
	mario.marchesoni@unige.it
	<u>mano.matchesom@unige.n</u>
	Curriculum secretary:
	Mrs. Laura Brunelli
	Mrs. Laura Brunelli laura.brunelli@unige.it
	Mrs. Laura Brunelli

Course: SCIENCE AND TECHNOLOGY FOR ELECTRONIC AND TELECOMMUNICATION ENGINEERING In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: INTERACTIVE COGNITIVE ENVIRONMENTS (CODE 9318)

Course Coordinator: Valle Maurizio		
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale,		
	Elettrica, Elettronica e delle Telecomunicazioni – DITEN)	
Places: 1 – Grants: 1 (*).		
	rsità degli Studi di Genova, the annual gross amount of the grant, including social security expenses	
to be paid by the recipient, i		
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	July 18, 2022 – 15:00 am at the Electrical, Electronics and Telecommunication Engineering and	
	Naval Architecture Department (DITEN), University of Genova, Via Opera Pia 11A - 16145	
	Genova or alternatively by telematic mode through videoconference	
Further information on	In their CVs, candidates must highlight the following features as they will be used as evaluation	
how to present	parameters: publications (e.g. in International Journals, International Conferences, Book Chapters),	
qualifications/publications	the degree mark (or equivalent qualification) obtained, work experience and acquired skills.	
	It is also important for candidates to highlight the following features when presenting their research	
	project as they will be used as evaluative parameters: Relevance to the research themes that appear	
	in this public exam, Originality, Execution modalities, Feasibility, Clear presentation/exposition.	
	A possible outline for the presentation of the research project plan, which must not exceed 10	
	pages, is the following:	
	- motivations and logic foundation;	
	- state of the art;	
	- objectives;	
	- methods employed;	
	- preliminary workplan;	
	- expected outcomes;	
Exam Syllabus	- bibliography. The interview will aim to verify the candidate's competence in relation to the listed research topics	
Exam Synabus	and the methodological ability to deal with research projects. In addition, the interview will also	
	focus on the content of the research project, inherent to one of the listed research themes, submitted	
	by the candidate.	
	The interviews may also take place electronically through MS Teams with video mode enabled to	
	check the candidate's identity, upon request sent by e-mail to the Coordinator of the Doctoral	
	Course, Prof. Maurizio Valle (<u>maurizio valle@unige.it</u>), subject: Interview Ph.D. STIET XXXVIII	
	cycle.	
Research Themes	1. Edge/cloud big data management and machine learning	
	2. Cybersecurity solutions for critical infrastructure	
	3. Machine learning for resource allocation in satellite networks	
	4. Energy Efficiency in the Beyond 5Gedge-cloud continuum	
	5. Advanced Orchestration techniques for 5/6GService-Based Meshes	
	6. Simulations and experiments of electromagnetic problems involving biological tissues or	
	materials in motion	
	7. Design and development of new generation haptic interfaces for virtual touch	
	8. Novel inversion techniques for electromagnetic imaging and antenna diagnostics	
	9. Probabilistic graphical models and machine learning methods for remote sensing image	
	analysis	
	 Data driven self-awareness models for AI enabled wireless communications Emergent and incremental collective-awareness in multiple heterogeneous autonomous agents 	
	12. Integrated circuits with scalable power supply voltages for wireless sensor nodes (WSN)	
	powered by energy harvesters	
	13. IoT solutions in e-Health applications for home assistance and care	
	14. Explainable Artificial Intelligence	
	15. Architectures to support Machine Learning	
	More detailed information on the themes at: <u>http://www.phd-stiet.diten.unige.it</u>	
	and a stated monthland on the distribution of magazine stock distribution of the	

Information on references	Candidates MUST choose AT LEAST one and not more than three referees to support their candidacy. Thereferees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following e-mail address <u>maurizio.valle@unige.it</u> , with subject: Ph.D. STIET XXXVIII cycle_CandidateName_reference letter The candidate MUST indicate in the submitted application names, status and affiliation of the referees. The referees MUST clearly indicate in the reference letters the supported candidate's aptitude to scientific research development
Foreign Languages	English
Further Information	Prof. Maurizio Valle DITEN - Università di Genova Via Opera Pia 11A 16145, Genova, Italy <u>maurizio.valle@unige.it</u>

Course: SCIENCE AND TECHNOLOGY FOR ELECTRONIC AND TELECOMMUNICATION ENGINEERING In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: ELECTROMAGNETISM, ELECTRONICS, TELECOMMUNICATIONS (CODE 9319)

Course Coordinator: Valle	Maurizio
	ectrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale,
Elettrica, Elettronica e delle Telecomunicazioni – DITEN)	
Places: 17 – Grants: 14 (*)	
(*) 4 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security expenses	
to be paid by the recipient, is $\in 16.500,00$.	
(*) 1 grant funded by MUR/DITEN, the annual gross amount of the grant, including social security expenses to be paid by the	
recipient, is € 16.500,00,00.	
(*) 1 grant funded by Istituto di Intelligenza Meccanica della Scuola Superiore Sant'Anna/DITEN, the annual gross amount o	
the grant, including social security expenses to be paid by the recipient, is $\in 16.500,00$, 00.	
(*) 1 grant funded within D	M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval
of Ministerial funding; thea	nnual gross amount of the grant, including social security expenses to be paid by the recipient, is €
16.500,00.	
(*) 7 grants funded within I	D.M. 352/2022 (cofunded by: 1) EsaOte Spa, 2) AITEK S.P.A. 3) Ebit srl, 4) AITEK Spa, 5) CNR e
	AIZOON Spa, 7 Advanced Laboratory on Embedded Systems S.r.l.), under condition to the
	ling; the annual gross amount of the grant, including social security expenses to be paid by the
recipient, is € 16.500,00.	
(°) di cui 3 posti riservati a c	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	July 18, 2022 – 9:00 am at the Electrical, Electronics and Telecommunication Engineering and
	Naval Architecture Department (DITEN), University of Genova, Via Opera Pia 11A - 16145
	Genova or alternatively by telematic mode through videoconference
Further information on	In presenting their CV, it is important for candidates to highlight the following features as they will
how to present	be used as evaluation parameters: publications (e.g. in International Journals, International
qualifications/publications	Conferences, Book Chapters), the degree mark (or equivalent qualification) obtained, work
	experience and acquired skills.
	It is also important for candidates to highlight the following features when presenting their research
	project as they will be used as evaluative parameters: Relevance to the research themes that appear
	in this public exam, Originality, Execution modalities, Feasibility, Clear presentation/exposition.
	A possible outline for the presentation of the research project plan, which must not exceed 10
	pages, is the following:
	- motivations and logic foundation;
	- state of the art;
	- objectives;
	- methods employed;
	- preliminary workplan; - expected outcomes;
	1
Exam Syllabus	- bibliography. The interview will aim to verify the candidate's competence in relation to the listed research topics
L'AIII 5 YILADUS	and the methodological ability to deal with research projects. In addition, the interview will also
	focus on the content of the research project, inherent to one of the listed research themes, submitted
	by the candidate.
	The interviews may also take place electronically through MS Teams with video mode enabled to
	check the candidate's identity, upon request sent by e-mail to the Coordinator of the Doctoral
	Course, Prof. Maurizio Valle (<u>maurizio.valle@unige.it</u>), subject: Interview Ph.D. STIET XXXVIII
	cycle.

Research Themes	1. AI models for rehabilitation robotics (partially funded by Istituto di Intelligenza Meccanica della Scuola Superiore Sant'Anna)
	2. Edge/cloud big data management and machine learning
	3. Cybersecurity solutions for critical infrastructure
	4. Machine learning for resource allocation in satellite networks
	5. Energy Efficiency in the Beyond 5Gedge-cloud continuum
	6. Advanced Orchestration techniques for 5/6GService-Based Meshes
	7. Simulations and experiments of electromagnetic problems involving biological tissues or
	materials in motion
	8. Design and development of new generation haptic interfaces for virtual touch
	9. Novel inversion techniques for electromagnetic imaging and antenna diagnostics
	10. Study and development of human-machine interfaces for upper limb prostheses and
	neurorehabilitation as enabling technologies for personalized medicine (research theme for grant
	funded within D.M. 351/2022 - Azione Dottorati per la Pubblica Amministrazione)
	11. Probabilistic graphical models and machine learning methods for remote sensing image analysis
	12. Data driven self-awareness models for AI enabled wireless communications
	13. Emergent and incremental collective-awareness in multiple heterogeneous autonomous agents
	14. Integrated circuits with scalable power supply voltages for wireless sensor nodes (WSN)
	powered by energy harvesters
	15. IoT solutions in e-Health applications for home assistance and care
	16. Explainable Artificial Intelligence
	17. Architectures to support Machine Learning
	18. Ultrasound systems based on advanced beamforming techniques for innovative diagnostic
	applications (research theme for grant funded within D.M. 352/2022, in collaboration with Es a Ote
	Spa)
	19. Sustainability and digitalization in the intermodal logistic chain (research theme for grant
	funded within D.M. 352/2022, in collaboration with Aitek Spa)
	20. Personalized medicine and process optimization: analysis and implementation of intelligent
	tools to support the clinical path (research theme for grant funded within D.M. 352/2022, in
	collaboration with Ebit Srl)
	21. V2X technologies and solutions for high way safety and monitoring (research theme for grant funded within $DM_{252}(2022)$ in collaboration with Aitel Snc)
	funded within D.M. 352/2022, in collaboration with Aitek Spa)
	22. RF Data Analitics and Machine Learning for Space Systems (research theme for grant funded within D.M. 352/2022, in collaboration with CNR e THALES ALENIA Spa)
	23. Cyber-physical security for critical infrastructures in public administration (research the me for
	grant funded within D.M. 352/2022, in collaboration with AIZOON Spa)
	24. Trustworthy and Verifiable Artificial Intelligence (research theme for grant funded within D.M.
	352/2022 research theme for grant funded within D.M. 352/2022, in collaboration with A dvanced
	Laboratory on Embedded Systems S.r.l.)
	25. Cyber-Physical Energy Management System for Optimal Sizing and Operation of smartgrids
	(Exec. PhD., AIZOON Spa)
	26. Cyber-secure decentralized energy management for IoT-enabled active distribution networks
	(Exec. PhD., AIZOON Spa)
	27. Cyber-Physical System Security of Distribution Systems, Exec. PhD. (Exec. PhD., AIZOON
	Spa)
	More detailed information on the themes at: <u>http://www.phd-stiet.diten.unige.it</u>
Information on references	Candidates MUST choose AT LEAST one and not more than three referees to support their
	candidacy. Thereferees must be university professors or experts in the subject and it will be their
	concern to send reference letters, within the deadline of the public notice, to the Coordinator of the
	Doctoral Course at the following e-mail address <u>maurizio.valle@unige.it</u> , with subject: Ph.D. STIET XXXVIII evels Condidate Name, reference latter
	STIET XXXVIII cycle_Candidate Name_reference letter
	The candidate MUST indicate in the submitted application names, status and affiliation of the referees.
	The referees MUST clearly indicate in the reference letters the supported candidate's aptitude to
	scientific research development.
Foreign Languages	English
Further Information	Prof. Maurizio Valle
	DITEN - Università di Genova
	Via Opera Pia 11A
	16145, Genova, Italy
	maurizio.valle@unige.it
L	

Course: SCIENCE AND TECHNOLOGY FOR ELECTRONIC AND TELECOMMUNICATION ENGINEERING In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia – IIT)

Curriculum: COMPUTATIONAL VISION, AUTOMATIC RECOGNITION AND LEARNING (CODE 9320)

Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni – DITEN) Places 2 – Grannis 12 (*). (*) 2 grants funded by IIT, the annual gross amount of the grant, including social security expenses to be paid by the recipient, sc 6 (16 500,00) Comparative assessment procedure Interview Interview July 21, 2022 – 900 am at IIT, Italian Institute of Technology, Via Enrico Melen, 83, Genoa or alternative by telematic mode through videoconfirence Further information on how to present gnalifications/publications for the evaluation: the publication list (e.g. in International Journals, Intermational gnalifications/publications Conferences, Book Chapters), the achieved degree mark (or quivalent qualification), the work experience and acquired skills. The following features of the submitted research project will be assessed in particular: relevanceto the research themes that appear in this public call, originality, implementation, flexibility, clarity of presentation. The research project MAXIMULENCITH IS 10 PAGES A possible structure of the research project planis the following: - Motivations and rationale - State of the art - Objectives - Employed methods - Pretiminary work plan - Expected outcomes - Bibliography The interview will aim to verify the candidate's competence in relation to the listed research topics: and the methodological ability to deal with research projects. In addition, the interview will also focus on thethemes of the research project. Inherent to the listed research themes, submitted by the candidate. The interview may also take place electronically through MS Teams with video mode enabled to check the candidate's identity, upon request sent by e-mail to the Contraint of the Doctoral Course, Prof. Mauzio V Stall (equite) and deep nuing reasoning Theme A: 3D scene understanding with geometrical and deep planning reasoning Theme B: Deep Learning for Multi-modal sc	Course Coordinator: Valle	Maurizio
Eletricia, Eletronica e delle Telecomunicazioni – DITEN) Places: 2– Crants: 2 (*). (*) 2 grants funded by IIT, the annual gross amount of the grant, including social security expenses to be paid by the recipient, & EloS0,00 Comparative assessment GUALIFICATIONS/PUBLICATIONS AND INTERVIEW Interview Interview July 21, 2022 – 9:00 am at IIT, Italian Institute of Technology, Via Enrico Melen, 83, Genoa or alternatively by telenatic mode through videcconference Further information on the oardidates must clearly highlight in the Curriculum Vitae the following features as they will be used for the evaluation: the publication list (e.g. in International Journals, International Gonferences, Book Chapters), the achieved degree mark (or equivalent qualification), the work experience and acquired skills. The following features of the submitted research project will be assessed in particular: relevance to the research themes that appear in this public call, originality, implementation, feasibility, clarity of presentation. The research project MAXIMUM LENGTH IS 10 PAGES A possible structure of the research project plan is the following: - Motivations and rationale - State of the art - Objectives - Employed methods - Preliminary work plan - Expected outcomes - Bibliography The interview will aim to verify the candidate's competence in relation to the listed research trojes and the methodological ability to deal with research projects. In addition, the interview will als o focus on the themes of the research project, inherent to the Eisted research trojes - Bibliography The interview may also take place electronically through MS Teams with video mode enabled to check the candidate's identity, upon request sent by e-mail to the Condinator of the Doctoral Course, Prof. Maurizio Valle (municio valle@unice_d) and to Dr. Alessio Del Bue (alessio delhue Giit_d), subject: Interview Ph.D. STIET XXXVIII cycle. Them A: 3D Scene understanding with geometrical and delep learning Theme D: Visual Reasoning with Knowledge and Graph Neural N		
Places: 2 - Grants: 2 (*). (*) 2 grants funded by IIT, the annual gross amount of the grant, including social security expenses to be paid by the recipient, k (*) 2 grants funded by IIT, the annual gross amount of the grant, including social security expenses to be paid by the recipient, k (*) 6 500,00 Comparative assessment procedure Interview Interview, July 21, 2022 - 9:00 am at IIT, Italian Institute of Technology, Via Enrico Melen, 83, Genoa or alternatively by telematic mode through videoconference Further information on how to present gualifications/publications for the evaluation: the publication list (e.g. in International Journals, International Journals, International Journals, International Journals, International Journals, International Following features of the submitted research project will be assessed in particular, relevance to the research project MAXIMUMLENGTH IS 10 PAGES A possible structure of the research project plan is the following: - Motivations and artionale - State of the art - Objectives - Bibliography The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research projects. In addition, the intervie w will also focus on the thenes of the research project, inherent to the listed research topics and the methodological ability, up requerts at the genemical and deep learning The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability, up encentroi		
(*) 2 grants funded by IIT, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is Comparative assessment procedure QUALIFICATIONS/PUBLICATIONS AND INTERVIEW Interview: Interview by telematic mode through videoconference Further information on how to present gradifications/publications The candidates must clearly highlight in the Curriculum Withe the following features as they will be used for the evaluation: the publication list (e.g. in International Journals, International Conferences, Book Chapters), the achieved degree mark (or equivalent qualification), the work experience and acquired skills. The following features of the submitted research project will be assessed in particular: relevance to the research themes that appear in this public call, originality, implementation, feasibility, clarity of presentation. The research project MAXIMUMLENGTH IS 10 PACES A possible structure of the research project plan is the following: - Motivations and rationale - State of the art - Objectives - Employed methods - Preliminary work plan - Espected outcomes - Bibliography Exam Syllabus The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research projects. In addition, the interview will als o focus on the theres of the research through MS Teams with video mode enabled to check the candidate's identify, upon request sent by e-mail to the Coordinator of the Doctoral Course, Prof. Maurizio Valle (maurizio valle@uninge.it) and to Dr. Alessio Del Bue (alessio delbue @itit.), subject: Interview Ph.D. STIET XXXVIII cycle. Resea	· · · · · · · · · · · · · · · · · · ·	
€ 16.500,00 Comparative assessment QUALIFICATIONS/PUBLCATIONS AND INTERVIEW Comparative assessment QUALIFICATIONS/PUBLCATIONS AND INTERVIEW procedure Interview: July 21, 2022 - 9:00 am at IIT, Italian Institute of Technology, Via Enrico Melen, 83, Genoa or alternatively by telematic mode through videoconference Further information on how to present (paulifications/publications) The candidates must clearly highlight in the Curriculum Vitae the following features as they will be used for the evaluation: the publication list (e.g. in International Journals, International Conferences, Book Chapters), the achieved degree mark (or equivalent qualification), the work experience and acquired skills. The following features of the submitted research project will be assessed in particular relevance to the research project MAXIMUM LENGTH IS 10 PACES A possible structure of the research project plan is the following: - Motivations and rational - State of the at - Objectives - Employed methods - Preliminary work plan - Expected outcomes - Bibliography Exam Syllabus The interview will aim to verify the candidate's competence in relation to the listed research topics and dition, the intervie will also to check the candidate. - Research Themes Research Themes The interview and as take place electronically through MS Teams with video mode enabled to check th		he appual gross amount of the grant including social security expenses to be paid by the recipient is
procedure - Interview Interview: July 21, 2022 – 9:00 am at IIT. Italian Institute of Technology, Via Enrico Melen, 83, Genoa or alternatively by telematic mode through videoconference Further information on bow to present qualifications/publications The candidates must clearly highlight in the Curriculum Vitae the following features as they will be over the valuation: the publication list (e.g. in International Conferences, Book Chapters), the achieved degree mark (or equivalent qualification), the work experience and acquired skills. The following features of the submitted research project will be assessed in particular: relevance to the research three search project MAXIMUM LENGTH IS 10 PACES A possible structure of the research project plan is the following: - Motivations and rationale - State of the art - Objectives - Employed methods - Preliminary work plan - Egected outcomes - Bibliography The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research project. In addition, the interview will also take place electronically through MS Teams with video mode enabled to check the candidate's identity, upon request sent by e-mail to the Coordinator of the Doctoral Course, Prof. Maurizo Valle Quingcit) and to Dr. Alessio Del Bue (alessio.delbue@itit), vallec't Interview Ph.D.STIET XXXVIII cyclc. Research Themes Themen A: 3D scene understanding with geometrical and deepleam	€ 16.500,00	
Interview Interview <t< th=""><th></th><th>QUALIFICATIONS/PUBLICATIONS AND INTERVIEW</th></t<>		QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
Genoa or alternatively by telematic mode through videoconference Control Further information on thow to present qualifications/publications The candidates must clearly highlight in the Curriculum Vitae the following features as they will be used for the evaluation: the publication list (e.g. in International Journals, International Conferences, Book Chapters), the achieved degree mark (or equivalent qualification), the work experience and acquired skills. The following features of the submitted research project will be assessed in particular: relevance to the research themes that appear in this public call, originality, implementation, feasibility, clarity of presentation. The research project MAXIMUMLENGTH IS 10 PAGES A possible structure of the research project plan is the following: - Motivations and rationale - State of the art - Objectives - Employed methods - Preliminary work plan - Expected outcomes - Bibliography Exam Syllabus The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research projects. In addition, the interview will als o focus on the themes of the research project, inherent to the listed research the by e-mail to the Coordinator of the Doctoral Course, Prof. Maurizio Valle (murizio, valle@unig.ij) and to Dr. Alessio Del Bue (alessio, delbue@it.it), subject: Interview Ph.D. STIET XXXVIII cycle. Research Themes Theme A: 3D scene understanding with geometrical and deep learning Theme D. Visual Reasoning with Knowledge and Graph Neural Networks More detailed information on the specific themes and indication of supervisors, at https://provisdata.iit.if.data/bd/2023. ResearchTopicsPhD IIT-PAVIS.pdf Information on references <	-2	
how to present malifications/publication used for the evaluation: the publication list (e.g. in International Tournals, International Conferences, Book Chapters), the achieved degree mark (or equivalent qualification), the work experience and acquired skills. The following features of the submitted research project will be assessed in particular: relevance to the research themes that appear in this public call, originality, implementation, feasibility, clarity of presentation. The research project MAXIMUMLENGTH IS 10 PAGES A possible structure of the research project plan is the following: - Motivations and rationale - State of the art - Objectives - Employed methods - Preliminary work plan - Expected outcomes - Bibliography Exam Syllabus The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research projects. In addition, the interview will als o focus on the theres of the research project, inherent to the listed research topics and the methodological ability upon request sent by e-mail to the Coordinator of the Doctoral Course, Prof. Maurizio Valle (mauriziovalle@unige.it) and to Dr. Alessio Del Bue (alessio delpue @iii.it), subject. Interview Ph.D. STIET XXXVIII cycle. Research Themes Theme B: Deep Learning for Multi-modal scene understanding Theme B: Deep Learning for Multi-modal scene understanding Theme B: Wall Reasoning with Knowledge and Graph Neural Networks More detailed in information on the specific themes and indication of supervisors, at https://pavisdata.it.it/data/phd/2023. ResearchTopicsPhD IIT-PAVIS.pdf Candidates MUST choose not less than one and not more than three referees to support heir concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at th	Interview	
qualifications/publications Conferences, Book Chapters), the achieved degree mark (or equivalent qualification), the work experience and acquired skills. The following features of the submitted research project will be assessed in particular: relevance to the research themes that appear in this public call, originality, implementation, feasibility, clarity of presentation. The research project MAXIMUMLENGTH IS 10 PAGES A possible structure of the research project plan is the following: - Motivations and rationale - State of the art - Objectives - Employed methods - Preliminary work plan - Expected outcomes - Bibliography Exam Syllabus The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research project. Indition, the interview will also focus on the theres of the research project, inherent to the listed research they submitted by the candidate's identity, upon request sent by e-mail to the Coordinator of the Doctoral Course, Prof. Maurizio Valle (muniziovalle@unige.if) and to Dr. Alessio Del Bue (alessio delhue @it.it), subject: Interview Ph.D. STIET XXXVIII cycle. Research Themes Theme 8: Deep Learning for Multi-modal scene understanding Theme C: Self-Supervised and Unsupervised Deep Learning Theme D: Visual Reasoning with Knowledge and Graph Neural Networks More detailed information on the specific themes and indication of supervisors, at https://pavisdata.iit.it/data/phd/2023_ResearchTopic	Further information on	The candidates must clearly highlight in the Curriculum Vitae the following features as they will be
experience and acquired skills. The following features of the submitted research project will be assessed in particular: relevance to the research themes that appear in this public call, originality, implementation, feasibility, clarity of presentation. The research project MAXIMUM LENGTH IS 10 PAGES A possible structure of the research project plan is the following: - Motivations and rationale - State of the art - Objectives - Employed methods - Preliminary work plan - Expected outcomes - Bibliography The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research projects. In addition, the intervie w will also focus on the themes of the research project, inherent to the listed research themes, submitted by the candidate. The interview may also take place electronically through MS Teams with video mode enabled to check the candidate's identify, upon request sent by e-mail to the Coordinator of the Doctoral Course, Prof. Maurizio Valle (maurizio, valle @minge.it) and to Dr. Alessio Del Bue (alessio delbue @iit.it), subject: Interview Ph.D. STIET XXXVII cycle. Research Themes Theme A: 3D scene understanding with geometrical and deep learning reasoning Theme B: Deep Learning for Multi-modal scene understanding Theme D: Visual Reasoning with Knowledge and Graph Neural Networks More detailed information on the specific themes and indication of supervisors, at https://pavisdata.it.it/data/pld/2023 ResearchTopicsPhD JTF-PAVIS.pdf Information on references Candidates, MUST choose not less than one and not more than three referees to support their candidatey. Thereferees must be university professors or experts in the subject and it will be the it concer to send reference letters, within the deadline of the public notice, to the Coordinator of the DoctoralCourse at the following addresses: maurizo, valle@uning.it is deasio.delbue@ii.it.with subject: Ph.D. STIET XXXVIII cycle. Candidate Name_ refere	how to present	used for the evaluation: the publication list (e.g. in International Journals, International
The following features of the submitted research project will be assessed in particular: relevance to the research themes that appear in this public call, originality, implementation, feasibility, clarity of presentation. The research project MAXIMUMLENGTH IS 10 PAGES A possible structure of the research project plan is the following: • Motivations and rationale • State of the art • Objectives • Employed methods • Preliminary work plan • Expected outcomes • Bibliography The interview will alm to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research projects. In addition, the interview will also focus on the themes of the research project, inherent to the listed research topic to check the candidate's identity, upon request sent by e-mail to the Coordinator of the Doctoral Course, Prof. Maurizio Valle (mutrizio, valle@unige.if) and to Dr. Alessio Del Bue (alessio delbue@it.jt.got) valle@unige.if) and to Dr. Alessio Del Bue (alessed olebue@it.jt.got) value review Ph.D. STIET XXXVIII cycle. Research Themes Theme A: 3D scene understanding with geometrical and deep learning reasoning Theme B: Deep Learning for Multi-modal scene understanding more showed scenes, and indication of supervisors, at https://pavisdata.it.it/data/phd/2023_Research TopicsPhD_IIT-PAVIS.pdf Information on references Candidates MUST choose not less than one and not more than three referees to support their candidate. The referees must be university profescos or experts in the subject and it will be their conce	qualifications/publications	Conferences, Book Chapters), the achieved degree mark (or equivalent qualification), the work
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presentation. The research project MAXIMUM LENGTH IS 10 PAGES A possible structure of the research project plan is the following: Motivations and rationale State of the art Objectives Employed methods Preliminary work plan Expected outcomes Bibliography Exam Syllabus The interview will aim to verify the candidate's competence in relation to the listed research topics and the methodological ability to deal with research projects. In addition, the interview will also focus on the themes of the research project, inherent to the listed research topics and the methodological ability upon request sent by e-mail to the Coordinator of the Doctoral Course, Prof. Maurizio Valle (maurizio valle@unige.it) and to Dr. Alessio Del Bue (alessio delbue @iit.jt), subject. Interview Ph.D. STIET XXXVIII cycle. Research Themes Theme A: 3D scene understanding with geometrical and deeplearning reasoning. Theme B: Deep Learning for Multi-modal scene understanding. Theme C: Self-Supervised and Unsupervised Deep Learning. Theme B: Deep Learning for Multi-modal scene understanding. Theme C: Self-Supervised and Unsupervised Deep Learning. Theme D: Visual Reasoning with Knowledge and Graph Neural Networks More detailed information on the specific themes and indication of supervisors, at https://pavisdata.it.it/data/phd/2023. Research TopicsPhD IIT-PAVIS.pdf Information on references Candidates. MUST choose not less than one on the nume reference letter. The candidate MUST indicate in the submitted application names, status and affiliation of the referees. The referees MUST clearly indicate in the reference letters. The refer		The following features of the submitted research project will be assessed in particular: relevance to
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candidacy. Thereferees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following addresses: <u>maurizio.valle@unige.it</u> e <u>alessio.delbue@iit.it</u> , with subject: Ph.D. STIET XXXVIII cycle_Candidate Name_reference letter The candidate MUST indicate in the submitted application names, status and affiliation of the referees. The referees MUST clearly indicate in the reference letters the supported candidate's aptitude to		https://pavisdata.iit.it/data/phd/2023 ResearchTopicsPhD IIT-PAVIS.pdf
concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following addresses: <u>maurizio.valle@unige.it</u> e <u>alessio.delbue@iit.it</u> , with subject: Ph.D. STIET XXXVIII cycle_Candidate Name_reference letter The candidate MUST indicate in the submitted application names, status and affiliation of the referees. The referees MUST clearly indicate in the reference letters the supported candidate's aptitude to	Information on references	
Doctoral Course at the following addresses: <u>maurizio.valle@unige.it</u> e <u>alessio.delbue@iit.it</u> , with subject: Ph.D. STIET XXXVIII cycle_Candidate Name_reference letter The candidate MUST indicate in the submitted application names, status and affiliation of the referees. The referees MUST clearly indicate in the reference letters the supported candidate's aptitude to		candidacy. The referees must be university professors or experts in the subject and it will be their
subject: Ph.D. STIET XXXVIII cycle_Candidate Name_reference letter The candidate MUST indicate in the submitted application names, status and affiliation of the referees. The referees MUST clearly indicate in the reference letters the supported candidate's aptitude to		
The candidate MUST indicate in the submitted application names, status and affiliation of the referees. The referees MUST clearly indicate in the reference letters the supported candidate's aptitude to		
referees. The referees MUST clearly indicate in the reference letters the supported candidate's aptitude to		
The referees MUST clearly indicate in the reference letters the supported candidate's aptitude to		The candidate MUST indicate in the submitted application names, status and affiliation of the
scientific research development.		
		scientific research development.
Foreign Languages English	Foreign Languages	English

Further Information	Prof. Maurizio Valle
	DITEN - Università di Genova
	Via Opera Pia 11A
	16145, Genova, Italy
	maurizio.valle@unige.it
	and
	Dr. Alessio Del Bue, Ph.D.
	Director, PAVIS - Pattern Analysis & Computer Vision
	IIT Istituto Italiano di Tecnologia
	Via Enrico Melen, 83, 16152, Genova, GE
	<u>alessio.delbue@iit.it</u>

Curriculum: ENDOCRINOLOGY AND DIABETOLOGY (CODE 9321)

	dinator: Striano Pasquale
Department of Neurosciences, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di	
Neuroscienze	, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)
Places: 1-G	cants: 1 (*)
(*) 1 grant fu	nded by Università degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to b	e paid by the recipient, is € 16.500,00
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
assessment	
procedure	
Interview	July 19th 2022 - 10.00 am, Aula Museo - Hall 16, 1st floor, Gaslini Children's Hospital, Genoa.
	The interview can take place, at the request of the person concerned for proven impediments to appear in person
	or if the health situation makes it necessary, also in telematic mode. Candidates who require the telematic
	modality must contact with adequate notice Prof. Pasquale Striano (pstriano@unige.it) and Dott.ssa Chiara
	Armani (chiara.armani@unige.it).
Exam	Contents of the Interview:
Syllabus	- previous experience of research work, including that relating to the thesis;
	- project ideas;
	- knowledge of basic methodologies for clinical and laboratory research;
	- knowledge of English through the presentation of the research project
Research	Pediatric Endocrinology
Themes	
Information	Candidates must choose no less than one and no more than three candidates to support the application. These
on	contacts must be university lecturers or subject matter experts. It will be the responsibility of the contact persons
references	to send the reference letters, within the deadline of the deadline of the call, to the Coordinator of the PhD course
	Prof. Pasquale Striano (pstriano@unige.it) and for information to: chiara.armani@unige.it.
Foreign	English
Languages	

Curriculum: GENETICS (CODE 9322)

Course Coordin	ator: Striano Pasquale	
Department of N	Department of Neurosciences, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di	
Neuroscienze, R	Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)	
Places: 2-Gran		
expenses to be p	ed by Università degli Studi di Genova, the annual gross amount of the grant, including social security aid by the recipient, is € 16.500,00	
(*) 1 grant funde recipient, is € 16.	ed by DINOGMI, the annual gross amount of the grant, including social security expenses to be paid by the 500,00	
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
assessment		
procedure		
Interview	July 19th 2022 - 10.00 am, Aula Museo - Hall 16, 1st floor, Gaslini Children's Hospital, Genoa. The interview can take place, at the request of the person concerned for proven impediments to appear in person or if the health situation makes it necessary, also in telematic mode. Candidates who require the telematic modality must contact with adequate notice Prof. Pasquale Striano (pstriano @unige.it) and Dott.ssa Chiara Armani (chiara.armani@unige.it).	
Exam Syllabus	Contents of the Interview: - previous experience of research work, including that relating to the thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of English through the presentation of the research project	
Research Themes	Genetic Disorders	
Information on	Candidates must choose no less than one and no more than three candidates to support the application. These	
references	contacts must be university lecturers or subject matter experts. It will be the responsibility of the contact persons to send the reference letters, within the deadline of the deadline of the call, to the Coordinator of the PhD course Prof. Pasquale Striano (pstriano@unige.it) and for information to: chiara.armani@unige.it.	
Foreign	English	
Languages		

Curriculum: MUSCULAR, NEURODEGENERATIVE, METABOLIC DISEASES IN CHILDREN, ADOLESCENTS (CODE 9323)

~~~~		
	linator: Striano Pasquale	
	Department of Neurosciences, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di	
Neuros cienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)		
Places: 1-G	rants: 1 (*)	
(*) 1 grant fu	nded by Università degli Studi di Genova, the annual gross amount of the grant, including social security	
expenses to be	e paid by the recipient, is € 16.500,00	
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
assessment		
procedure		
Interview	July 19th 2022 - 10.00 am, Aula Museo - Hall 16, 1st floor, Gaslini Children's Hospital, Genoa.	
	The interview can take place, at the request of the person concerned for proven impediments to appear in person	
	or if the health situation makes it necessary, also in telematic mode. Candidates who require the telematic	
	modality must contact with adequate notice Prof. Pasquale Striano (pstriano@unige.it) and Dott.ssa Chiara	
	Armani (chiara.armani@unige.it).	
Exam	Contents of the Interview:	
Syllabus	- previous experience of research work, including that relating to the thesis;	
	- project ideas;	
	- knowledge of basic methodologies for clinical and laboratory research;	
	- knowledge of English through the presentation of the research project	
Research	Pediatric Neurology, Neurological disorders, Neuromuscular disorders	
Themes		
Information	Candidates must choose no less than one and no more than three candidates to support the application. These	
on	contacts must be university lecturers or subject matter experts. It will be the responsibility of the contact persons	
references	to send the reference letters, within the deadline of the deadline of the call, to the Coordinator of the PhD course	
	Prof. Pasquale Striano (pstriano@unige.it) and for information to: chiara.armani@unige.it.	
Foreign	English	
Languages		

# Curriculum: FOETAL-PERINATAL AND PAEDIATRIC PATHOLOGY (CODE 9324)

	ator: Striano Pasquale
	Veurosciences, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di
Neuroscienze, R	iabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)
Places: 1 – Gran	ts:1(*)
	ed by Università degli Studi di Genova, the annual gross amount of the grant, including social security aid by the recipient, is € 16.500,00
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
assessment procedure	
Interview	July 19th 2022 - 10.00 am, Aula Museo - Hall 16, 1st floor, Gaslini Children's Hospital, Genoa. The interview can take place, at the request of the person concerned for proven impediments to appear in person or if the health situation makes it necessary, also in telematic mode. Candidates who require the telematic modality must contact with adequate notice Prof. Pasquale Striano ( <u>pstriano@unige.it</u> ) and Dott.ssa Chiara Armani ( <u>chiara.armani@unige.it</u> ).
Exam Syllabus	Contents of the Interview: - previous experience of research work, including that relating to the thesis; - project ideas; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of English through the presentation of the research project
Research	Foetal-perinatal and paediatric pathology
Themes	
Information on	Candidates must choose no less than one and no more than three candidates to support the application. These
references	contacts must be university lecturers or subject matter experts. It will be the responsibility of the contact persons to send the reference letters, within the deadline of the deadline of the call, to the Coordinator of the PhD course Prof. Pasquale Striano (pstriano@unige.it) and for information to: chiara.armani@unige.it.
Foreign	English
Languages	

# Curriculum: PAEDIATRIC RHEUMATOLOGY (CODE 9326)

Course Coor	dinator: Striano Pasquale	
Department of	f Neurosciences, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di	
Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)		
Places: 2(°) -	Grants: 1 (*)	
	nded by MUR/DINOGMI, the annual gross amount of the grant, including social security expenses to be paid by	
the recipient,		
	reserved to employee of IRCSS Istituto G. Gaslini	
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
assessment		
procedure		
Interview	July 19th 2022 - 10.00 am, Aula Museo - Hall 16, 1st floor, Gaslini Children's Hospital, Genoa.	
	The interview can take place, at the request of the person concerned for proven impediments to appear in person	
	or if the health situation makes it necessary, also in telematic mode. Candidates who require the telematic	
	modality must contact with adequate notice Prof. Pasquale Striano(pstriano@unige.it) and Dott.ssa Chiara	
T	Armani (chiara.armani@unige.it).	
Exam	Contents of the Interview:	
Syllabus	- previous experience of research work, including that relating to the thesis;	
	- project ideas;	
	<ul> <li>- knowledge of basic methodologies for clinical and laboratory research;</li> <li>- knowledge of English through the presentation of the research project</li> </ul>	
Research	Pediatric Rheumatology	
Themes	rediatile Kileuniatology	
Information	Candidates must choose no less than one and no more than three candidates to support the application. These	
on	contacts must be university lecturers or subject matter experts. It will be the responsibility of the contact persons	
references	to send the reference letters, within the deadline of the deadline of the call, to the Coordinator of the PhD course	
i cici cheeb	Prof. Pasquale Striano (pstriano@unige.it) and for information to: chiara.armani@unige.it.	
Foreign	English	
Languages		

# Curriculum: PAEDIATRIC SPECIALITIES (CODE 9325)

Course Coor	linator: Striano Pasquale		
	f Neurosciences, Rehabilitation, Ophthalmology, Genetics and Mother and Child Sciences (Dipartimento di		
	, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili – DINOGMI)		
	- Grants: 6 (*)		
(*) 1 grant fur	nded by DINOGMI within Dipartimenti di Eccellenza project, the annual gross amount of the grant, in cludin g		
	social security expenses to be paid by the recipient, is € 16.500,00		
	inded by Dipartimento Onco-ematologia G. Gaslini, the annual gross amount of the grant, including social		
	nses to be paid by the recipient, is € 16.500,00		
	nded within D.M. 351/2022 (Azione Dottorati di ricerca PNRR), under condition to the approval of Ministerial		
	nnual gross amount of the grant, including social security expenses to be paid by the recipient, is $\notin$ 16.500,00.		
	unded within D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the		
	inisterial funding; the annual gross amount of the grant, including social security expenses to be paid by the		
recipient, is €	16.500,00. Inded within D.M. 352/2022 (cofunded by Arrow Diagnostics srl), under condition to the approval of Ministerial		
	nnual gross amount of the grant, including social security expenses to be paid by the recipient, is $\in 16.500,00$ .		
	s reserved to employee of IRCSS Istituto G. Gaslini (°)		
Comparative	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW		
assessment			
procedure			
Interview	July 19th 2022 - 10.00 am, Aula Museo - Hall 16, 1st floor, Gaslini Children's Hospital, Genoa.		
	The interview can take place, at the request of the person concerned for proven impediments to appear in		
	person or if the health situation makes it necessary, also in telematic mode. Candidates who require the		
	telematic modality must contact with adequate notice Prof. Pasquale Striano (pstriano @unige.it) and Dott.ssa		
	Chiara Armani (chiara.armani@unige.it).		
Exam	Contents of the Interview:		
Syllabus	- previous experience of research work, including that relating to the thesis;		
	- project ideas;		
	- knowledge of basic methodologies for clinical and laboratory research;		
D	- knowledge of English through the presentation of the research project		
Research	Paediatric Specialties		
Themes	Research theme for grant funded within D.M. 351/2022 (Azione Dottorati di ricerca PNRR e Azione Dottorati per la Pubblica Amministrazione): adoles centology, pediatric allergology and immunology, neurological		
	disorders		
	Research theme for grant funded within D.M. 352/2022: pediatric pulmonology, pediatric cardiology, pediatric		
	hemato-oncology		
	Multimodal neuromonitoring and cerebral autoregulation assessment in Neonatal and Pediatric Intensive Care		
	(°)		
Information	Candidates must choose no less than one and no more than three candidates to support the application. These		
on	contacts must be university lecturers or subject matter experts. It will be the responsibility of the contact		
references	persons to send the reference letters, within the deadline of the deadline of the call, to the Coordin at or of the		
	PhD course Prof. Pasquale Striano (pstriano@unige.it) and for information to: chiara.armani@unige.it.		
Foreign	English		
Languages	ad fallowin athe approximant data d 20.06 2022		

(°) 1 grant added following the agreement dated 20.06.2022

# Curriculum: MIGRATIONS AND INTERCULTURAL PROCESSES (CODE 9327)

Course Coordinator: Andrighetto Luca		
Department of Education (Dipartimento di Scienze della Formazione - DISFOR)		
Places: 3 – Grants: 3 (*)		
	(*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, including social security	
expenses to be paid by the r		
(*) 1 grant funded within D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the		
approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the		
recipient, is € 16.500,00.		
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure Interview	20.7.2022 – 9.00 am	
Inter view	20.7.2022 - 9.00 and	
	The interview will take place in telematic mode through the Teams platform or Skype	
Further information on	The following will be as sessed:	
how to present	1. The quality of the research project presented (before writing the research project please	
qualifications/publications	carefully read the instructions at this link: <u>https://tinyurl.com/mw9xnhzd</u> )	
	2. Research experience and scientific publications.	
	3. Thesis of the 5 or 4-year degree course, which must be attached in PDF format.	
	4. A cademic curriculum and degree mark.	
	5. Specific experiences relevant to the Doctorate themes	
Exam Syllabus	For the admission to the interview, a minimum score, decided by the Commission, and resulting	
	from the qualifications and the project (please carefully read the instructions at this link:	
	https://tinyurl.com/mw9xnhzd) evaluation, is required.	
	The interview will focus on the discussion of the research project and of the qualifications	
	presented, with special reference to some aspects of research methodologies and data analysis	
	techniques within the specific subject areas.	
	1 1 5	
	During the interview, the candidate's real motivation, together with his/her knowledge of two	
	European languages (Italian, English, French and Spanish) will be assessed.).	
Research Themes	- Integration, acculturation and identity construction processes through different levels of	
	analysis (individual, family, group),	
	- Ingroup-outgroup relationships in various contexts (educational, formative and work-related).	
	- Intercultural processes in the wake of migration movements both for the countries of origin and in those of arrival.	
	- Reception systems; forced migrations, environmental migrations and transformations following	
	migrations in urban and rural contexts from local to global.	
	- Public administration operators and immigrant users; multicultural skills for administrative	
	management; multicultural skills for early childhood workers (research theme for grant funded	
	within D.M. 351/2022 - Azione Dottorati per la Pubblica Amministrazione).	
	These research themes can be analyzed using models and methods of various disciplines in the	
Information on references	field of social sciences (anthropology, geography, pedagogy, psychology, sociology, history).	
information on references	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.	
Foreign Languages	English or French or Spanish	
Further Information	Website: https://scienzesociali.dottorato.unige.it/	
	in content magna and and and and and and and and and a	
	Curriculum Coordinator:	
	Prof. Nadia Rania, DISFOR, C.so Podestà 2	
	nadia.rania@unige.it	
	Coordinator of the Phd Course in Social Science:	
	Prof. Luca Andrighetto, DISFOR, C.so Podestà, 2	
	<u>luca.andrighetto@unige.it</u>	
	Administrative manager:	
	Dott.s sa Francesca Figus, DISFOR, C.so Podestà2	
	dottoratoscienzesociali.disfor@unige.it	
	dottoratosetenizzsoetani.uisior @ unige.it	

# Curriculum: PSYCHOLOGY AND COGNITIVE SCIENCES (CODE 9328)

Course Coordinator: Andrighetto Luca	
Department of Education (Dipartimento di Scienze della Formazione - DISFOR)	
Places: $3(^{\circ})$ – Grants: $2(^{*})$	
	ersità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the r	
	oyee of Enterprise Shipping Agency S.R.L ( ^{°°)}
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	19.07.2022 – 10 a.m.
	In presence, with the possibility of remote interview via Skype/Teams platform
Further information on	The following titles will be evaluated:
how to present	1. Quality of the research project which will be presented by candidate (before writing the
qualifications/publications	research project please carefully read the instructions at this link: <u>https://tinyurl.com/mw9xnhzd</u> )
	2. Research experiences and scientific publications
	3. Master's or four-year degree thesis, which can be attached in PDF format
	4. Academic curriculum and degree mark
	The Commission will reserve the possibility of setting a minimum score threshold obtained by
	the candidate in the titles' evaluation in order to access the interview.
Exam Syllabus	The research project presented must be inherent to the research topics of the Psychology and
<i>y</i>	Cognitive Sciences Curriculum listed below (before writing the research project please carefully
	read the instructions at this link: <u>https://tinyurl.com/mw9xnhzd</u> ).
	The interview will focus on the discussion of the research project and the titles presented, als o
	with attention to general aspects of research methodology in psychology and data analysis
	techniques in the specific disciplinary areas. The interview can be held in Italian or English, chosen by the candidate. If the interview will
	take place in Italian, knowledge of the English language will be assessed during the interview.
Research Themes	- Working memory Intelligence, cognitive and meta-cognitive abilities. Cognitive erg ono mic s.
	Non-technical skills and high-fidelity simulation. Human-machine interaction and interaction
	design. Experimental pragmatic. Neuropsychology of language. Aging. Psychology of to urism.
	Acquisition and evolution of language. Psycholinguistics.
	- Language and executive functions in typical and atypical development. School in clusion of
	pupils with developmental disorders. Neo-Piagetian models of cognitive development. Understanding and learning of mathematics. Cognitive processes in child drawing.
	- Dehumanization and objectification in interpersonal and intergroup relationships. Prejudice, its
	different forms and reduction strategies. Quality of working life and psychosocial risks.
	Leadership. Professional development and training.
	- Psychopathological disorders/symptoms, behavioural addictions and emotional (dys)regulation
	in middle childhood, in adolescents and adults. Attachment theory: research, clinical
	applications assessment methods and attachment-based treatments. Adoption. High risk
	adolescents. Mentalization in clinical and non-clinical groups. Risk factors and protection in couples and families.
	- Organizational change and human resource practices within the maritime sector ( ^{oo} )
Information on references	Reference letters are not required. In any case, reference letters received will not be taken into
	consideration for the purposes of the evaluation.
Foreign Languages	English
Further Information	Website: https://scienzesociali.dottorato.unige.it/
	Curriculum Co ordinator
	Curriculum Coordinator: Prof. Cecilia Serena Pace, DISFOR, C.so Podestà 2
	cecilia.pace@unige.it
	Coordinator of the Phd Course in Social Science: Prof. Luca Andrighetto, DISFOR, C.so
	Podestà, 2
	<u>luca.andrighetto@unige.it</u>
	Administrative manager:
	Dott.ssa Francesca Figus, DISFOR, C.so Podestà2
	dottoratoscienzesociali.disfor@unige.it
$\binom{0}{0}$ place added following the	e letter of intent dated 19.5.2022

(°°) place added following the letter of intent dated 19.5.2022

# Curriculum: POLITICAL SCIENCES (CODE 9329)

Course Coordinator: And	Course Coordinator: Andrighetto Luca	
	Department of Education (Dipartimento di Scienze della Formazione - DISFOR)	
Places: 3 – Grants: 3 (*)		
	versità degli Studi di Genova, the annual gross amount of the grant, in cluding social security	
expenses to be paid by the		
	D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the	
	ding; the annual gross amount of the grant, including social security expenses to be paid by the	
recipient, is € 16.500,00.	<i>6,, 6,, 7,</i>	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	25/7/2022 – 9:30 a.m.	
	At the Dipartimento di Scienze Politiche e Internazionali (DISPI), Albergo dei Poveri, piazzale	
	E. Brignole 2A (cancello), Genova.	
	The option of a video (to verify the candidate's ID) conferencing interview via Teams plat form	
	is available.	
	After the publication of the evaluations about qualifications and project proposal, can did at es	
	admitted to the interview who request the video conferencing interview are asked to send an e-	
	mail to the President's committee and curriculum coordinator, before Tuesday 12.7.2022 - 11 am	
	(local timezone). In the e-mail, the candidate's name, surname, and the Teams address must be	
	specified.	
Further information on	The examining commission reserves the right to fix a minimum score threshold to be obtained	
how to present	by candidates in the evaluation of their qualifications/publications in order to be admitted to the	
qualifications/publications		
quantications/publications	witten test.	
	The following will be evolveded.	
	The following will be evaluated:	
	1. The quality of the research project presented by the candidate (before writing the research	
	project please carefully read the instructions at this link: <u>https://tinyurl.com/mw9xnhzd</u> )	
	2. Research experiences and scientific publications;	
	3. Academic curriculum and graduation mark	
Exam Syllabus	The interview will focus on:	
	- the discussion of the presented research project (please carefully read the instructions ah this	
	link: <u>https://tinyurl.com/mw9xnhzd</u> )	
	- disciplinary topics within the specific subject areas of the project	
	- aspects of research methodologies within the specific subject areas.	
	During the interview, the candidate's knowledge of English language will be assessed.	
<b>Research Themes</b>	- Political ideas, ideologies and political phenomena in a historical-critical perspective	
	- Human Rights promotion and protection in a local, national and international dimension	
	- Social and political changes in democratic contexts: the transformation dynamics of the	
	political and cultural relations linked to the changes	
	- Regulation of scientific activity: between law, market and politics and its influence on research	
	practices	
	- Post-Covid PA: digital administration and services' co-design (research theme for grant funded	
	within D.M. 351/2022 - Azione Dottorati per la Pubblica Amministrazione)	
Information on references	Reference letters are not required. Nonetheless, any reference letters received will not be taken	
	into consideration for the final score.	
Foreign Languages	English	
Further Information	Website: https://scienzesociali.dottorato.unige.it/	
	Curriculum Coordinator:	
	Prof. Prof. Paolo Parra Saiani, DISPI, <u>paolo.parra.saiani@unige.it</u>	
	Coordinator of the Phd Course in Social Science:	
	Prof. Luca Andrighetto, DISFOR, C.so Podestà, 2 luca.andrighetto@unige.it	
	Administrative manager:	
	Dott.ssa Francesca Figus, DISFOR, C.so Podestà 2 dottoratoscienzesociali.dis for@unige.it	

# Curriculum: SOCIOLOGY (CODE 9330)

Course Coordinator: Andrighetto Luca	
Department of Education (I	Dipartimento di Scienze della Formazione - DISFOR)
Places: 2-Grants: 2 (*)	
	versità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	Thursday 18.7.2022 – 11:00 am at Dipartimento di Scienze della Formazione (DISFOR), Corso
	A. Podestà 2, Genova.
	The option of a video (to verify the candidate's ID) conferencing interview via Teams platform
	is available.
	After the publication of the evaluations about qualifications and project proposal, can did at estimate the publication of the evaluation of the evaluatio
	admitted to the interview who request the video conferencing interview are asked to send an e-
	mail to the President's committee and curriculum coordinator, before Tuesday 12.7.2022 - 11 am
	(local timezone). In the e-mail, the candidate's name, surname, and the Teams address must be
	specified.
Further information on	A minimum score, decided by the Commission, resulting from the qualifications and the project
how to present	evaluation, is required for the admission to the interview.
qualifications/publications	
	The following will be as sessed:
	1. The quality of the research project presented (before writing the research project please
	carefully read the instructions at this link: <u>https://tinyurl.com/mw9xnhzd</u> )
	2. Research experience and scientific publications
	3. Thesis of the 5 or 4-year degree course, which has to be attached in PDF format
	4. A cademic curriculum and degree mark.
	The results of the qualifications evaluation will be available at least two days before the
	discussion.
Exam Syllabus	The interview will focus on the research project (please carefully read theins tructions at this
	link: <u>https://tinyurl.com/mw9xnhzd</u> ) and the qualifications presented by the candidate with
	special reference to aspects of general research methodology, and data analysis techniques
	referred to the specific disciplinary contexts.
	During the interview, the knowledge of a foreign language will be tested.
Research Themes	-Methodology of social research.
	-Evaluation of educational and social policies.
	-Visual Sociology.
	-Social disparities.
	-Social policies.
	-The youth situation.
	-Dynamics of the labour market.
	-Sociology of organisations and work.
	-Sociology of science and technology.
	-Sociology of cultural processes and communication.
	-Sociology of deviance.
	-Sociology of education.
	-Sociology of the family.
	-Urban sociology.
	-Gender studies.
Information on references	
	consideration for the final score.
Foreign Languages	English, French, Spanish
Further Information	Website: https://scienzesociali.dottorato.unige.it/
	Curriculum Coordinator:
	Prof. Luca Guzzetti, DISFOR, C.so Podestà 2, <u>luca.guzzetti@unige.it</u>
	Coordinator of the Phd Course in Social Science:
	Prof. Luca Andrighetto, DISFOR, C.so Podestà 2, <u>luca.andrighetto@unige.it</u>
	Administrative manager:
	Dott.ssa Francesca Figus, DISFOR, C.so Podestà2, <u>dottoratoscienzesociali.disfor@unige.it</u>

# Curriculum: POLITICAL SCIENCES – CLOE Project (CODE 9331)

Course Coordinator: Andr	ighetto Luca
	Dipartimento di Scienze della Formazione - DISFOR)
Places: 1(°) – Grants: 0	
(°) 1 position covered with COFUND-2020 "CLOE - 7 development and conserva website at <u>https://cloe.dp.un</u> For the CLOE COFUND pro 4 years of research career at also to satisfy the 'mobility r more than 12 months in the holidays and time spent und for the calculation.	oject, the position is reserved to early-stage researchers (ESRs): researchers must be in their first the date of the recruitment and not have been already awarded a PhD degree before. ESRs have rule': they must not have resided or carried out their main activity (work, study etc.) in Italy for three years prior to the date of recruitment. Compulsory national service, short stays such as ler a procedure to obtain refugee status under the Geneva Convention are not taken in to account
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	The interview of admitted candidates will remotely take place (using Microsoft TEAMS, SKYPE or other platform) on 20 July 2022, at 14.30 (CET). Further information will be provided via e-mail and via website ( <u>https://scienzesociali.dottorato.unige.it/</u> ) after 30 June 2022.
Further information on	The following documents must be provided:
how to present	
qualifications/publications	<ul> <li>a copy of a Valid Passport/ID;</li> <li>a translation of the academic qualifications duly notarized by the Italian diplomatic or consular office of the Country in which the qualifications were obtained and Declaration of Value of the qualifications prepared by the Italian diplomatic -consular Representatives, that is located in the Country where the qualifications were obtained. If the Italian diplomatic or consular office does not provide the documentation in time for the application, applicants should enclose all the documentation available (e.g. degree certificates, transcript of records);</li> <li>in case of qualifications is sued by an EU country, previous documents may be replaced by the Diploma Supplement delivered by the University which has issued the title, according to the standards of the EU and UNESCO/CEPES;</li> <li>master thesis extended abstract (max 10 pages);</li> <li>curriculum Vitae;</li> <li>letter of Motivation;</li> <li>a self-declaration (https://cloe.dp.unige.it/en/application_package_2022) to demonstrate that they respect the MSCA mobility rule, the ESR definition, and the English language proficiency (IELTS scores, TOEFL results, or proof of a degree awarded in English);</li> <li>research project proposal;</li> <li>ethics self-assessment - through the form available at the following link: https://cloe.dp.unige.it/en/application_package_2022</li> <li>up to three letters of reference;</li> <li>publication(s)/Patent(s) (optional; max 5)</li> </ul>

Exam Syllabus	The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. Candidates complying with the eligibility criteria who have passed the minimum threshold in the qualifications and in the project required by the CLOE COFUND project (STEP 1) will be admitted to the interview (STEP 2). Interview (STEP 2) is intended to discuss the titles and the research project presented by the candidate. Moreover, the project must contain: an Abstract summarizing the research project proposal; a clearly defined research topic and the state of art; the objectives of the research; the research methodology that, with respect to the research topics of the COFUND CLOE project, will have to favor the legal method of public law (Italian, European and comparative law perspective), also enhancing the multidisciplinary approach of political sciences (so ciological, political and economic); the expected results; the most relevant bibliographic references.
	The project must be written in English and not exceed 6,000 characters (spaces and bibliographic references included). During the interview, the motivational aspect will be evaluated and the knowled ge of English and that of another language of the European Union between Italian, French and Spanish will be ascertained.
Decembration of the second	Further information on the CLOE doctoral training programme and the selection procedures are available on the CLOE website at the following link: <u>http://cloe.dp.unige.it</u> .
Research Themes	Candidates have to choose one of the two proposed topics: Research topic H2020-MSCA-COFUND2020 n. 1: Local authorities' organization, protection of rights and services' delivery in rural and mountain areas.
	Research topic H2020-MSCA-COFUND2020 n. 2: Historical minorities and new minorities' (EU and non EU migrants) protection and empowerment (also from a gender perspective) in rural and mountain areas.
	Further information on research themes and on the project proposal structure are available on the project's website at the following link: <u>http://cloe.dp.unige.it</u> .
Information on references	For the COFUND CLOE project, the submission of up to 3 letters of reference (minimum 1) is required to support the application. The referents must be university professors or experts in the field of the candidates' proposed projects.
	It will be the responsibility of the referents to send the letters of reference, within the deadline of the call, to the following address:
	arianna.pitino@unige.it and cc cloe.dp@unige.it
E	In the application candidates must indicate the name, the qualification and the workplace of the persons that will write reference letters for them.
Foreign Languages	Knowledge of English is required together with that of another language of the European Union between Italian, French and Spanish.

Further Information	Within the three years of the Program (and, preferably, during the second year) PhD students shall spend at least 6 months abroad, or at qualified international training centers in Italy, doing research on the topic of their Phd dissertation (possibly also non-consecutive, but in any case – for each fraction – of adequate consistency).
	Website: https://scienzesociali.dottorato.unige.it/
	COFUND-CLOE Supervisor in the Phd curriculum: Prof.ssa Arianna Pitino, DISPI, Piazzale E. Brignole 3a, Genova <u>arianna.pitino@unige.it</u>
	Curriculum Coordinator: Prof. Paolo Parra Saiani, DISPI, Piazzale E. Brignole 3a, Genova <u>paolo.parra.saiani@unige.it</u>
	Phd Coordinator: Prof. Luca Andrighetto, DISFOR, C.so Podestà, 2, Genova <u>luca.andrighetto@unige.it</u>
	Phd Secretary: Dott.ssa Francesca Figus, DISFOR, C.so Podestà 2, Genova <u>dottoratoscienzesociali.disfor@unige.it.</u>

### Course: SECURITY, RISK AND VULNERABILITY

Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

# Curriculum: CYBERSECURITY AND RELIABLE ARTIFICIAL INTELLIGENCE (CODE 9332)

Course Coordinator: Arma	ndo Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità		
<b>Places:</b> $10(^{\circ})$ – <b>Grants:</b> $8(^{\circ})$		
(*) 1 grant funded by Univ	versità degli Studi di Genova, the annual gross amount of the grant, including social security	
expenses to be paid by the recipient, is $\in$ 16.500,00		
(*) 3 grants funded by FBK Foundation, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is $\notin 16.500,00$ (°°°)		
	D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the	
	approval of Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the	
recipient, is € 16.500,00.		
	M. 352/2022 (cofunded by Aizoon), under condition to the approval of Ministerial funding; the	
	grant, including social security expenses to be paid by the recipient, is $\in$ 16.500,00.	
	D.M. 352/2022 (cofunded by Leonardo Spa), under condition to the approval of Ministerial	
$\frac{1000}{(\circ\circ)}$	nount of the grant, including social security expenses to be paid by the recipient, is $\notin 16.500,00$	
(°) 1 position for a graduate	employed by ZenaByte	
(°) 1 positions for a graduate		
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	28th of July 2022 at 2:00 PM telematically contacting the coordinator of the CV (Prof. Luca	
	Oneto <u>luca.oneto@unige.it</u> ) at least7 days before the evaluation. The candidate must have a	
	reliable internet connection, in order to allow the evaluation to be carried out.	
	The interviews will continue in the next days in case of a large number of candidates.	
Further information on how to present	The research project (10 pages max) must include the candidate's research interests and motivations, a short abstract, the State of the Art and relevant references and the aims of the	
qualifications/publications	research activity.	
quantications/ publications	The application (curriculum) must contain Transcripts of Records, stating the courses atten ded	
	and marks obtained throughout the candidate's university career (Bachelor and M.Sc. Degrees).	
	Undergraduate candidates at the deadline of the public notice may submit further	
	documentation, which they deem appropriate, in order to document their university career.	
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project (10	
	pages max), Curriculum Vitae et Studiorum(10 pages max) and qualifications/publications (10	
	pages max). The interview is also aimed at verifying that the candidate has adequate knowled ge to deal with studies in the chosen curriculum.	
Research Themes	Research lines:	
Rescar en memes	Cybersecurity of distributed systems (ad es, Mobile, Cloud, Web, IoT)	
	Data Protection and Privacy	
	Reliability of Artificial Intelligence	
	FBK research lines are:	
	Cyber Deception in Cloud-to-Edge Environments	
	Explainable Machine Learning in Network Security	
	Model-based safety assessment for hybrid systems Multi-domain Cyber Range and Resilience Testing of Cyber-physical Systems; Missione	
	Critical Platforms and Validation Procedured through Cyber-Priystean Systems, Wissione	
	High Performance Computing for large scale AI applications per applicazioni di Intelligenza	
	Artificiale su larga scala. (°°)	
	Further information and guidelines for the writing the research projects are available at	
	http://sicurezza.unige.it	
Information on references	Candidates must choose at least one and no more than three referees to support their candidature.	
	The referees must be university professors or experts in the subject. If the referee is not a university professor, he/she must also send the Curriculum Vitee and a list of publications	
	university professor, he/she must also send the Curriculum Vitae and a list of publications.	
	The reference letter must be send by the referees, within the deadline of the public notice, to the	
	Coordinator of the curriculum to the following e-mail address: <u>luca.oneto@unige.it</u>	
	The name, status and current position of the referees chosen by the candidate must be stated in	
	the application.	
	Deference letters that are not presented as requested will not be taken into consideration	
	Reference letters that are not presented as requested will not be taken into consideration.	

<b>Foreign Languages</b>	English
Further Information	Curriculum Coordinator
	Prof. Luca Oneto
	DIBRIS, Opera Pia 11a, Genova
	luca.oneto@unige.it
$(^{\circ\circ})$ 2 grants added following	ng the agreement dated 27.5.2022 and 30.05.2022

(°°) 2 grants added following the agreement dated 27.5.2022 and 30.05.2022 (°°°) 1 grant added following the letter received from Fondazione FBK dated 16.06.2022

Course: SECURITY, RISK AND VULNERABILITY Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

### Curriculum: SECURITY AND LAW (CODE 9333)

Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità         Places: 2 - Grants: 2 (*).         (*) 2 grants funded by Università degli Studi di Genova, the annual gross amount of the grant, in cluding social security expenses to be paid by the recipient, is Cl 6.500.00         Comparative assessment       QLALIFICATIONS/PUBLICATIONS ANDINTERVIEW         procedure       19/07/2022, 9 am, Law Department, meeting room of the former Constitutional Law Section, 3rd floor, (7B), via Balbi 22, Cenova. Interview by Skype is possible as well.         The interview can be scheduled on the days after, in case of high number of applications.         Further information on "Qualifications" the information contained in the application and in the curriculum vitae et studiorum, the research project, furtherqualifications.         qualifications/publications       The application form and its attachment can be written in Italian or English or French or Spanish.         Exam Syllabus       The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically:         - The RESEARCH PROJECT must fit into some of the research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically:         - The INTERVIEW will be used to discuss theresearch project presented by the candidate and its relation to some of the research project presented by the candidate and its relation to some of the research project and an istrelation to some of the research project prese	Course Coordinator: Arma	ando Alessandro
Places: 2 - Grants: 2 (*).         (*) 2 grants funded by Universitid degli Studidi Cenova, the annual gross amount of the grant, in cluding social security expranses to be paid by the recipient, is € 16.500,00         Comparative assessment       UULIFICATIONS/PUBLICATIONS AND INTERVIEW         procedure       19/07/2022, 9 am, Law Department, meeting room of the former Constitutional Law Section, and for (7), is a Babi 22, Genova.         Interview       19/07/2022, 9 am, Law Department, meeting room of the former Constitutional Law Section, and for (7), is a Babi 22, Genova.         Further information on how to present qualifications. "Qualifications" the information contained in the application form and its attachment can be written in Italian or English or French or Spanish.         Exam Syllabus       "De comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically:         - The RESEARCH PROJECT must fit into some of the research topics of the PhD programme. It must contain (i) a clearly defined research problem, indicate (ii) basic metodological choices, list (iii) the main bibliography, and give (iv) a rough outline of the argument(s) the candidate will use to address the problem.         - The INTERVIEW will be used to discuss theresearch project presented by the candidate and lis relation to some of the research topics of the PhD curriculamin Security and Law, namely Arrificial intelligence and law         - Occeptual analysis of Security       - Cybersecurity and law         - Occeptual analysis of lega		
(*) 2 grants funded by Universidadegli Studi di Cenova, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00         Comparative assessment       QUALIFICATIONS/PUBLICATIONS AND INTERVIEW         procedure       19/07/2022, 9 am, Law Department, meeting room of the former Constitutional Law Section, 3rd floor, (7B), via Balbi 22, Cenova.         Interview by Skype is possible as well.       The interview can be scheduled on the days after, in case of high number of applications.         Further information on how to present qualifications? the information contained in the application and in the curriculum vitae et studiorum, the research project, further qualifications/publications         Fxam Syllabus       The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically:         - The RESEARCH PROJECT must fit into some of the research tropics of the PhD programme. It must contain (i) a clearly defined research project presented by the candidate and its relation to some of the research project presented by the candidate and its relation to some of the research project opics of the PhD curriculumin Security and Law, namely Artificial intelligence and law         - Conceptual analysis of security       - Oybersecurity and cybercrime         - Oybersecurity and cybercrime       - Oybersecurity and law         - Operture and gata       - New technology and labor relations         - Pinitosophy or privacy and law       - New tec		
Comparative assessment procedure         QUALIFICATIONS/PUBLICATIONS AND INTERVIEW           procedure         19/07/2022, 9 am, Law Department, meeting room of the former Constitutional Law Section, 3rd floor, (7B), via Babi 22, Genova. Interview by Skype is possible as well. The interview can be scheduled on the days after, in case of high number of applications. Further information on 'Qualifications' the information contained in the application and in the curriculum vitae et studiorum, the research project, further qualifications. The application form and its attachment can be written in Italian or English or French or Spanish.           Exam Syllabus         The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically: - The RESEARCH PROJECT must fit into some of the research topics of the PhD programme. It must contain (i) a clearly defined research problem, indicate (ii) basic metodological choices, list (iii) the main bibliography, and give (iv) a rough outline of the argument(s) the candidate and its relation to some of the research topics of the PhD curriculumin Security and Law, namely Artificial intelligence and law - Conceptual analysis of security - Cybersecurity and cybercrime - Cybersecurity and abserd engines - Digital Identity - e-Democracy, e-Government and Rule of law - Health security and cybercrime - Machine learning and law - New technology and labor relations - Philosophy of privacy and hew surveillance society - Personal data protection - Privacy and big data - Smart contracts - Technology induced developments in the philosophy of criminal responsibility and punishment Lines of research are foccused on the following macro-areas: Conceptual analysis of legal issues connected to security, risk, and vulnerability in pub	(*) 2 grants funded by Univ	
Interview         19/07/2022, 9 am, Law Department, meeting room of the former Constitutional Law Section, 3rd floor, (7B), via Balbi 22, Genova.           Interview by Skype is possible as well.         The interview can be scheduled on the days after, in case of high number of applications.           Further information on how to present qualifications/publications         "Meinformation contained in the application and in the curriculum vitae et studiorum, the research project, further qualifications. The application form and its attachment can be written in Italian or English or French or Spanish.           Exam Syllabus         The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically:           The RESEARCH PROJECT must fit into some of the research topics of the PhD programme. It must contain (1) a clearly defined research project presented by the candidate and its relation to some of the research topics of the PhD curriculum in Security and Law, namely Artificial intelligence and law           Conceptual analysis of security         - Other security and Qybercrime           Optimized contrive         - Optimized contrive           Diat aretention and search engines         - Digital Identity           Democracy, e-Covernment and Rule of law         - Heath security           - Human rights in the digital age         - Internet governance           - Dist and bearing and law         - New technology and I abor relations           - Ph	Comparative assessment	
ard floor, (7B), via Balbi 22, Genova.         Interview by Skype is possible as well.         The interview can be scheduled on the days after, in case of high number of applications. <b>Further information on bow to present</b> qualifications/publications         The application form and its attachment can be written in Italian or English or French or Spanish. <b>Exam Syllabus</b> The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically:         The RESEARCH PROJECT must fit into some of the research topics of the PhD programme. It must contain (1) a clearly defined research problem, indicate (ii) basic metodological choices, list (iii) the main bibliography, and give (iv) a rough outline of the argument(s) the candidate and its relation to some of the research topics of the PhD curriculumin Security and Law, namely Artificial intelligence and law         - Conceptual analysis of security         - Cybersecurity and cybercrime         - Cybersecurity and law         - Data retention and search engines         - Digital Identity         - Health security         - Human rights in the digital age         - Internet governance         - Machine learning and law         - New technology and labor relations         - Prinkosyn di dgata         - Smart contracts		
Further information on how to present qualifications/publications       "Qualifications" the information contained in the application and in the curriculum vitae et studiorum, the research project, further qualifications.         gradifications/publications       The application form and its attachment can be written in Italian or English or French or Spanish.         Exam Syllabus       The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically:         - The RESEARCH PROJECT must fit into some of the research topics of the PhD programme. It must contain (i) a clearly defined research problem, indicate (ii) basic metodological choices, list (iii) the main bibliography, and give (iv) a rough outline of the argument(s) the candidate will use to address the problem.         - The INTERVIEW will be used to discuss the research project presented by the candidate and its relation to some of the research topics of the PhD curriculumin Security and Law, namely Artificial intelligence and law         - Conceptual analysis of security       - Cybersecurity and cybercrime         - Qybersecurity and alwe       - Democracy, e-Government and Rule of law         - Heath security       - Human rights in the digital age         - Internet governance       - Machine learning and law         - Nachine learning and law       - Nechnology and labor relations         - Philosophy of privacy and new surveillance society       - Prersonal data protection         - Privac	Interview	3rd floor, (7B), via Balbi 22, Genova.
how to present qualifications/publications         studiorum, the research project, further qualifications. ^{1,1} The application form and its attachment can be written in Italian or English or French or Spanish.           Exam Syllabus         The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically:		The interview can be scheduled on the days after, in case of high number of applications.
qualifications/publications         The application form and its attachment can be written in Italian or English or French or Spanish.           Exam Syllabus         The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically:           - The RESEARCH PROJECT must fit into some of the research topics of the PhD programme. It must contain (i) a clearly defined research problem, indicate (ii) basic metodological choices, list (iii) the main bibliography, and give (iv) a rough outline of the argument(s) the candidate will use to address the problem.           - The INTERVIEW will be used to discuss the research project presented by the candidate and its relation to some of the research topics of the PhD curriculumin Security and Law, namely Artificial intelligence and law           - Conceptual analysis of security         - Oybersecurity and law           - Oybersecurity and search engines         - Digital Identity           - e-Democracy, e-Government and Rule of law         - Heath security           - Human rights in the digital age         - Internet governance           - Machine learning and law         - New technology and labor relations           - Privacy and big data         - Smart contracts           - The ensore are focused on the following macro-areas:           - Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law	Further information on	"Qualifications" the information contained in the application and in the curriculum vitae et
Spanish.           Exam Syllabus         The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically: <ul></ul>	how to present	studiorum, the research project, further qualifications.
Exam Syllabus       The comparative assessment will be based on an evaluation of the candidate's qualific at ions, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically:         - The RESEARCH PROJECT must fit into some of the research topics of the PhD programme. It must contain (i) a clearly defined research problem, indicate (ii) basic metodological choices, list (iii) the main bibliography, and give (iv) a rough outline of the argument(s) the candidate will use to address the problem.         - The INTERVIEW will be used to discuss the research project presented by the candidate and its relation to some of the research topics of the PhD curriculumin Security and Law, namely Artificial intelligence and law         - Conceptual analysis of security       - Cybersecurity and cybercrime         - Cybersecurity and search engines       - Digital Identity         - e-Democracy, e-Government and Rule of law         - Health security         - Human rights in the digital age         - Internet governance         - Machine learning and law         - New technology and labor relations         - Phitosophy of privacy and new surveillance society         - Personal data protection         - Trivacy and big data         - The additional analysis of legal is sues connected to security, risk, and vulnerability in public or private law         - Doctrinal analysis of legal is sues connected to security, risk, or vulnerability in public or private law	qualifications/publications	The application form and its attachment can be written in Italian or English or French or
research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme. More specifically: - The RESEARCH PROJECT must fit into some of the research topics of the PhD programme. It must contain (i) a clearly defined research problem, indicate (ii) basic metodological choices, list (iii) the main bibliography, and give (iv) a rough outline of the argument(s) the candidate will use to address the problem. - The INTERVIEW will be used to discuss the research project presented by the candidate and its relation to some of the research topics of the PhD curriculumin Security and Law, namely Artificial intelligence and law - Conceptual analysis of security - Cybersecurity and cybercrime - Cybersecurity and gebercrime - Dybersecurity and search engines - Digital Identity - e-Democracy, e-Government and Rule of law - Health security - Human rights in the digital age - Internet governance - Machine learning and law - New technology and labo relations - Philosophy of privacy and new surveillance society - Personal data protection - Privacy and big data - Smart contracts - Technology induced developments in the philosophy of criminal responsibility and punishment Research Themes Research Themes		Spanish.
It must contain (i) a clearly defined research problem, indicate (ii) basic metodological choices, list (iii) the main bibliography, and give (iv) a rough outline of the argument (s) the candidate will use to address the problem.         - The INTERVIEW will be used to discuss the research project presented by the candidate and its relation to some of the research topics of the PhD curriculumin Security and Law, namely Artificial intelligence and law         - Conceptual analysis of security       - Cybersecurity and cybercrime         - Cybersecurity and cybercrime       - Cybersecurity and search engines         - Digital Identity       - e-Democracy, e-Government and Rule of law         - Heath security       - Human rights in the digital age         - Internet governance       - Machine learning and law         - New technology and labor relations       - Philosophy of privacy and new surveillance society         - Personal data protection       - Privacy and big data         - Smart contracts       - Technology induced developments in the philosophy of criminal responsibility and punishment         Research Themes       Lines of research are focused on the following macro-areas: Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law         Doctrinal analysis of legal issues connected to security, risk, or vulnerability in public or private law	Exam Syllabus	The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for
its relation to some of the research topics of the PhD curriculumin Security and Law, namely         Artificial intelligence and law         - Conceptual analysis of security         - Cybersecurity and cybercrime         - Cybersecurity and search engines         - Digital Identity         - e-Democracy, e-Government and Rule of law         - Health security         - Human rights in the digital age         - Internet governance         - Machine learning and law         - New technology and labor relations         - Privacy and big data         - Smart contracts         - Technology induced developments in the philosophy of criminal responsibility and punishment         Research Themes         Lines of research are focused on the following macro-areas:         Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law         Doctrinal analysis of legal issues connected to security, risk, or vulnerability in public or private law		It must contain (i) a clearly defined research problem, indicate (ii) basic metodological choices, list (iii) the main bibliography, and give (iv) a rough outline of the argument(s) the candidate
- Cybersecurity and law         - Data retention and search engines         - Digital Identity         - e-Democracy, e-Government and Rule of law         - Health security         - Human rights in the digital age         - Internet governance         - Machine learning and law         - New technology and labor relations         - Philosophy of privacy and new surveillance society         - Personal data protection         - Privacy and big data         - Smart contracts         - Technology induced developments in the philosophy of criminal responsibility and punishment         Research Themes         Kesearch Themes		its relation to some of the research topics of the PhD curriculum in Security and Law, namely Artificial intelligence and law - Conceptual analysis of security
- Data retention and search engines         - Digital Identity         - e-Democracy, e-Government and Rule of law         - Health security         - Human rights in the digital age         - Internet governance         - Machine learning and law         - New technology and labor relations         - Philosophy of privacy and new surveillance society         - Personal data protection         - Privacy and big data         - Smart contracts         - Technology induced developments in the philosophy of criminal responsibility and punishment         Research Themes         Lines of research are focused on the following macro-areas:         Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law         Doctrinal analysis of legal issues connected to security, risk, or vulnerability in public or private law		
<ul> <li>Digital Identity         <ul> <li>Digital Identity</li> <li>e-Democracy, e-Government and Rule of law</li> <li>Health security</li> <li>Human rights in the digital age</li> <li>Internet governance</li> <li>Machine learning and law</li> <li>New technology and labor relations</li> <li>Philosophy of privacy and new surveillance society</li> <li>Personal data protection</li> <li>Privacy and big data</li> <li>Smart contracts</li> <li>Technology induced developments in the philosophy of criminal responsibility and punishment</li> </ul> </li> <li>Research Themes</li> <li>Lines of research are focused on the following macro-areas: Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law</li> <li>Doctrinal analysis of legal issues connected to security, risk, or vulnerability in public or private law</li> </ul>		- Cybersecurity and law
e-Democracy, e-Government and Rule of law         Health security         Human rights in the digital age         Internet governance         Machine learning and law         New technology and labor relations         Philosophy of privacy and new surveillance society         Personal data protection         Privacy and big data         Smart contracts         Technology induced developments in the philosophy of criminal responsibility and punishment         Research Themes         Lines of research are focused on the following macro-areas:         Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law         Doctrinal analysis of legal issues connected to security, risk, or vulnerability in public or private law         Economic analysis of legal issues connected to security, risk, or vulnerability in public or private law		
- Health security         - Human rights in the digital age         - Internet governance         - Machine learning and law         - New technology and labor relations         - Philosophy of privacy and new surveillance society         - Personal data protection         - Privacy and big data         - Smart contracts         - Technology induced developments in the philosophy of criminal responsibility and punishment         Research Themes         Lines of research are focused on the following macro-areas:         Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law         Doctrinal analysis of legal issues connected to security, risk, or vulnerability in public or private law         Economic analysis of legal issues connected to security, risk, or vulnerability in public or private law		
- Human rights in the digital age         - Internet governance         - Machine learning and law         - New technology and labor relations         - Philosophy of privacy and new surveillance society         - Personal data protection         - Privacy and big data         - Smart contracts         - Technology induced developments in the philosophy of criminal responsibility and punishment         Research Themes         Lines of research are focused on the following macro-areas:         Conceptual analysis of legal is sues connected to security, risk, and vulnerability in public or private law         Doctrinal analysis of legal is sues connected to security, risk, or vulnerability in public or private law		
<ul> <li>Internet governance</li> <li>Machine learning and law</li> <li>New technology and labor relations</li> <li>Philosophy of privacy and new surveillance society</li> <li>Personal data protection</li> <li>Privacy and big data</li> <li>Smart contracts</li> <li>Technology induced developments in the philosophy of criminal responsibility and punishment</li> <li>Research Themes</li> <li>Lines of research are focused on the following macro-areas: Conceptual analysis of legal is sues connected to security, risk, and vulnerability in public or private law</li> <li>Doctrinal analysis of legal is sues connected to security, risk, or vulnerability in public or private law</li> </ul>		
<ul> <li>Machine learning and law</li> <li>New technology and labor relations</li> <li>Philosophy of privacy and new surveillance society</li> <li>Personal data protection</li> <li>Privacy and big data</li> <li>Smart contracts</li> <li>Technology induced developments in the philosophy of criminal responsibility and punishment</li> </ul> Research Themes Lines of research are focused on the following macro-areas: Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law Doctrinal analysis of legal issues connected to security, risk, or vulnerability in public or private law Economic analysis of legal issues connected to security, risk, or vulnerability in public or private		
<ul> <li>New technology and labor relations         <ul> <li>Philosophy of privacy and new surveillance society</li> <li>Personal data protection</li> <li>Privacy and big data</li> <li>Smart contracts</li> <li>Technology induced developments in the philosophy of criminal responsibility and punishment</li> </ul> </li> <li>Research Themes         <ul> <li>Lines of research are focused on the following macro-areas: Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law Doctrinal analysis of legal issues connected to security, risk and vulnerability in public or private law</li> <li>Economic analysis of legal issues connected to security, risk, or vulnerability in public or private</li> </ul> </li> </ul>		
<ul> <li>Philosophy of privacy and new surveillance society</li> <li>Personal data protection</li> <li>Privacy and big data</li> <li>Smart contracts</li> <li>Technology induced developments in the philosophy of criminal responsibility and punishment</li> <li>Research Themes</li> <li>Lines of research are focused on the following macro-areas: Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law</li> <li>Doctrinal analysis of legal issues connected to security, risk and vulnerability in public or private law</li> <li>Economic analysis of legal issues connected to security, risk, or vulnerability in public or private</li> </ul>		
<ul> <li>Personal data protection         <ul> <li>Personal data protection</li> <li>Privacy and big data</li> <li>Smart contracts</li> <li>Technology induced developments in the philosophy of criminal responsibility and punishment</li> </ul> </li> <li>Research Themes         <ul> <li>Lines of research are focused on the following macro-areas: Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law Doctrinal analysis of legal issues connected to security, risk and vulnerability in public or private law Economic analysis of legal issues connected to security, risk, or vulnerability in public or private</li> </ul> </li> </ul>		
- Privacy and big data         - Smart contracts         - Technology induced developments in the philosophy of criminal responsibility and punishment         Research Themes         Lines of research are focused on the following macro-areas:         Conceptual analysis of legal is sues connected to security, risk, and vulnerability in public or private law         Doctrinal analysis of legal is sues connected to security, risk, or vulnerability in public or private law         Economic analysis of legal is sues connected to security, risk, or vulnerability in public or private		
- Smart contracts         - Technology induced developments in the philosophy of criminal responsibility and punishment         Research Themes         Lines of research are focused on the following macro-areas:         Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law         Doctrinal analysis of legal issues connected to security, risk and vulnerability in public or private law         Economic analysis of legal issues connected to security, risk, or vulnerability in public or private		
- Technology induced developments in the philosophy of criminal responsibility and punishment           Research Themes         Lines of research are focused on the following macro-areas: Conceptual analysis of legal is sues connected to security, risk, and vulnerability in public or private law Doctrinal analysis of legal issues connected to security, risk and vulnerability in public or private law Economic analysis of legal issues connected to security, risk, or vulnerability in public or private		
Research ThemesLines of research are focused on the following macro-areas: Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or private law Doctrinal analysis of legal issues connected to security, risk and vulnerability in public or private law Economic analysis of legal issues connected to security, risk, or vulnerability in public or private		
Doctrinal analysis of legal issues connected to security, risk and vulnerability in public or private law Economic analysis of legal issues connected to security, risk, or vulnerability in public or private	Research Themes	Lines of research are focused on the following macro-areas: Conceptual analysis of legal issues connected to security, risk, and vulnerability in public or
Economic analysis of legal issues connected to security, risk, or vulnerability in public or private		Doctrinal analysis of legal issues connected to security, risk and vulnerability in public or

Information on references	- Coordinator of the PhD Programme
	Prof. Alessandro Armando
	DIBRIS, Via Dodecaneso 35, Genova (+39) 3281003201
	alessandro.armando@unige.it
	- Coordinator of the curriculum
	Prof. Giorgio Afferni
	DIGI, Via Balbi 22, Genova (+39) 3356063568
	giorgio.afferni@unige.it
	- Administrative contact of the curriculum
	Dott.ssa M. Stefania Lavezzo
	Via Balbi 22, Genova (+39) 0102095436, int. 55436
	maria.Stefania.Lavezzo@unige.it
Foreign Languages	English
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### Course: SECURITY, RISK AND VULNERABILITY

Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

Course Coordinator: Arma	undo Alessandro	
Centro Strategico Interdipar	Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
<b>Places:</b> 3– <b>Grants:</b> 3 (*).		
(*) 3 grants funded by Univ	ersità degli Studi di Genova, the annual gross amount of the grant, in cluding social security	
expenses to be paid by the re		
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	21.7.2022 - 11.30 am, at the "Dipartimento di Scienze Politiche e Internazionali, piazzale	
	Brignole, 2a, Genova. Also online (Teams) upon request.	
Further information on	The Commission will assess:	
how to present	1. Quality of the research project	
qualifications/publications	2. Research experiences and scientific publications	
	3. Master thesis (which must be attached in PDF format)	
	4. A cademic curriculum and final degree mark	
	The Commission will set a minimum threshold obtained by the candidate in the evaluation of cv	
	and research project in order to access the interview	
Exam Syllabus	Candidates who obtain the minimum score established by the Commission on research projects and the cv will be admitted to the interview.	
	The interview will focus on the discussion of the research project and the titles presented, with a	
	specific attention devoted to research methodology.	
	During the interview, the motivational aspects will be assessed and the knowledge of English	
	will be ascertained.	
Research Themes	Within International Relations, Security Studies, Foreign Policy Analysis as pecific attention	
	will be devoted to:	
	Causes and features of civil wars:	
	Institutional and political solutions to civil wars;	
	Evolution of Peacekeeping and Peace-building;	
	Tools and approaches in foreign and defense policy.	
	Technology and security	
Information on references	Two references letters to be sent by e-mail to the curriculum coordinator.	
Foreign Languages	English	
Further Information	For further information please get in contact with prof. Giampiero Cama (curriculum	
	coordinator e-mail: <u>gcama@unige.it</u> ) or prof. Fabrizio Coticchia (e-mail:	
	fabrizio.coticchia@unige.it)	

Curriculum: SECURITY AND STRATEGIC STUDIES (CODE 9334)

### Course: SECURITY, RISK AND VULNERABILITY

Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

### Curriculum: MANAGEMENT AND SECURITY (CODE 9335)

Course Coordinator: Arma	ndo Alessandro
	timentale su Sicurezza, Rischio e Vulnerabilità
Places: 3–Grants: 3 (*) (°	
	ersità degli Studi di Genova, the annual gross amount of the grant, in cluding social security
expenses to be paid by the r	
	M. 352/2022 (cofunded by Esaote SpA), under condition to the approval of Ministerial funding;
	he grant, including social security expenses to be paid by the recipient, is $\notin$ 16.500,00. (°)
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	15/07/2022. The interviews will take place by skype, starting from 10 a.m. Candidates will
	receive information (in case of a high number of applications interviews could be scheduled on
	the days after).
Further information on	"Qualifications" mean useful information to appreciate the application, starting from the
how to present	Curriculum Vitae et Studiorum, the research project and any further element. The application
qualifications/publications	
	Documents must be sent in electronic form.
Exam Syllabus	The interview will be a discussion on the Curriculum Vitae et Studiorum and
	qualifications/publications and an in depth presentation of the candidate's research project. The
	interview is also aimed at verifying that the candidate has adequate knowledge to deal with
	studies in the chosen curriculum.
Research Themes	The research lines characterizing the curriculum are focused on the following macro-areas:
	- industry analysis and case studies, in relationship to security
	- security as common and cross topic involving any organization (deepened as, for example,
	businessethics, sustainability and environmental management, technology, innovation and
	knowledge management, organizational issues, performance and crisis management, alternative finance, risk management and performance, turnaround: retrenchment and recovery, compliance,
	financial reporting transparency, accounting scandals and crisis communication)
	- Corporate reorganization of international groups (grant funded within D.M. 352/2022) (°)
Information on references	
information on references	The referees must be university professors or experts in the subject. If the referee is not a
	university professor, he/she must also send his/her Curriculum Vitae and a list of public ations.
	The reference letter must be send by the referees, within the deadline of the public notice, to the
	responsible of the curriculum (teres ina.torre @economia.unige.it), object: reference letter –Name
	-phd. The name, status and current position of the referees chosen by the candidate must be
	stated in the application. Reference letters that are not presented as requested will not be taken
	into consideration.
Foreign Languages	Inglese
Further Information	Coordinator of the PhD Programme
	Prof. Alessandro Armando
	DIBRIS, Via Dodecaneso 35, Genova (+39) 3281003201
	alessandro.armando@unige.it
	Responsible of the Curriculum
	Prof.ssa Teresina Torre
	DIEC, Via Vivaldi 5. Genova (+39)
(°) grant added following the	teres in a. torre@economia.unige.it

(°) grant added following the agreement dated 26.5.2022

## Course: SECURITY, RISK AND VULNERABILITY

Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

# Curriculum: RISK AND RESILIENCE ENGINEERING FOR THE NATURAL, INDUSTRIALIZED AND BUILT ENVIRONMENTS (CODE 9336)

Course Coordinator: Armando Alessandro	
Centro Strategico Interdipartimentale su Sicurezza, Rischio e Vulnerabilità	
Places: 4 – Grants: 4 (*)	
(*) 3 grants funded by Univ	ersità degli Studi di Genova, the annual gross amount of the grant, including social security expenses
to be paid by the recipient, i	s € 16.500,00
	.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval
of Ministerial funding; the a	innual gross amount of the grant, including social security expenses to be paid by the recipie nt, is $\in$
16.500,00.	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	26/7/2022, 9:00am, room A7 in Via Montallegro 1, 16145 Genova. Depending on the number of candidates, the interviews may continue in the following days. Upon request of the candidate or due to sanitary conditions the interview may take place remotely by contacting Prof. Serena Cattari (serena.cattari@unige.it) at least 15 days before the date of the interview. The candidate must have a reliable internet connection.
Further information on	The research project (10 pages max) must include the candidate's research interests and
how to present	motivations, a short abstract, the State of the Art and relevant references and the aims of the
qualifications/publications	research activity.
	The application (curriculum) must contain Transcripts of Records, stating the courses attended and marks obtained throughout the candidate's university career (Bachelor and M.Sc. Degrees). Undergraduate candidates at the deadline of the public notice may submit further document tation, which they deem appropriate, in order to document their university career.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project (10 pages
	max), Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max). The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	Risk analyses and resilience studies addressed to assess and tackle risks arising from natural hazards and anthropic activities and their impact on society, in terms of direct and indirect losses and their economic, social and environmental consequences. Studies involve: - the natural environment such as atmosphere, soil and subsoil, fluvial and coastal environment. - industrial and civil buildings (including the monumental ones) -the infrastructure and equipment related to transportation of people, goods and energy.
	Among others, tools and objectives of the research are the monitoring and the planning of mitigation strategies based on a multi-disciplinary and systemic approach. Additional information on the research themes of the curriculum in "Risk and Resilience Engineering for the Natural, Industrialized and Built environments" are described in detail on the course web page: <u>http://sicurezza.unige.it/dottorato</u>
	For 3 grants funded by Università degli Studi di Genova, some possible research topics are described at: <u>https://sicurezza.unige.net/admission/how-to-apply/themes-rrenib</u> .
	For the grant funded on D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), the research project has been already fixed in agreement with the goals of such DM in order to be multidisciplinary among the natural risk management, engineering, law and managerial research area and to enhance the capacity of small-medium public administrations. Additional details on this research theme are provided at <u>https://sicurezza.unige.net/admis.sion/how-to-apply/themes-rrenib</u> (see the grant funded on DM 351 (PA)). For this grant the research project of the candidate must agree with the goals identified for this research theme.

Information on references	Candidates must choose at least one and no more than three referees to support their candidature.
	The referees must be university professors or experts in the subject. If the referee is not a university
	professor, he/she must also send the Curriculum Vitae and a list of publications.
	The reference letter must be send by the referees, within the deadline of the public notice, to the
	Coordinator of the PhD program ( <u>aless andro.armando@unige.it</u> ) and to the responsible of the
	curriculum(serena.cattari@unige.it, dottorato.dicca@unige.it).
	The name, status and current position of the referees chosen by the candidate must be stated in the
	application.
	Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English
	International certifications (TOEFL, CPE, CAE, FCE,) included in the application will be
	considered a plus (preferential title).
<b>Further Information</b>	PhDProgram Coordinator
	Prof. Alessandro Armando
	DIBRIS, Via Dodecaneso 35, Genova
	alessandro.armando@unige.it
	Curriculum Coordinator
	Prof. Serena Cattari
	DICCA – Via Montallegro 1 1614 Genova
	serena.cattari@unige.it

## Course: SECURITY, RISK AND VULNERABILITY

Doctoral Course in agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler – FBK) and CIMA Foundation

# Curriculum: RISK, CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT (CODE 9337)

Course Coordinator: Arma	ndo Alessandro
	timentale su Sicurezza, Rischio e Vulnerabilità
Places: 4 – Grants: 4 (*)	tinkhale su Seurezza, Risemo e vuneraolita
	rsità degli Studi di Genova, the annual gross amount of the grant, including social security expenses s € 16.500,00
(*) 1 grant funded by CIMA the recipient, is € 16.500,00	Foundation, the annual gross amount of the grant, including social security expenses to be paid by
	0.M. 352/2022 (cofunded by CIMA Foundation), under condition to the approval of Ministerial
	nount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00.
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	20/7/2022, 9:30 am, in the Savona Campus of the University of Genova. Depending on the number of candidates, the interviews may continue in the following days. Upon request of the candidate or due to sanitary conditions the interview may take place remotely by contacting Prof. Luca Ferraris ( <u>luca.ferraris@unige.it</u> , <u>CCSD@cimafoundation.org</u> )) at least 7 days before the date of the interview. The candidate must have a reliable internet connection.
Further information on	The research project (10 pages max) must include the candidate's research interests and
how to present	motivations, a short abstract, the State of the Art and relevant references and the aims of the
qualifications/publications	research activity.
	The application (curriculum) must contain Transcripts of Records, stating the courses attended and
	marks obtained throughout the candidate's university career (Bachelor and M.Sc. Degrees).
	Undergraduate candidates at the deadline of the public notice may submit further documentation,
	which they deem appropriate, in order to document their university career.
Exam Syllabus	The interview will be a detailed scientific discussion on the candidate's research project (10 pages max), Curriculum Vitae et Studiorum (10 pages max) and qualifications/publications (10 pages max). The interview is also aimed at verifying that the candidate has adequate knowledge to deal with studies in the chosen curriculum.
Research Themes	<ul> <li>Research lines:</li> <li>Unlocking the potential of Artificial Intelligence for hydrologic science and technology</li> <li>Exploring Multi-platform integrated approaches based on remote and proximal sensing techniques to support forest fire risk assessment</li> <li>Ocean and atmosphere coupled processes.</li> <li>Social and environmental vulnerability and sustainability of internal and mountain territories</li> </ul>
	Further information and guidelines for the writing the research projects are available at <u>http://sicurezza.unige.it/dottorato</u>
Information on references	Candidates must choose at least one and no more than three referees to support their candidature. The referees must be university professors or experts in the subject. If the referee is not a university professor, he/she must also send the Curriculum Vitae and a list of publications.
	The reference letter must be send by the referees, within the deadline of the public notice, to the Coordinator of the curriculum to the following e-mail address: luca.ferraris@unige.it RCCSD@cimafoundation.org
	The name, status and current position of the referees chosen by the candidate must be stated in the application.
	Reference letters that are not presented as requested will not be taken into consideration.
Foreign Languages	English

Further Information	PhD Program Coordinator Prof. Alessandro Armando DIBRIS, Via Dodecaneso 35, Genova <u>alessandro.armando@unige.it</u>
	Curriculum Coordinator Prof. Prof. Luca Ferraris DIBRIS, Campus Universitario, Savona <u>luca.ferraris@unige.it</u>

# Curriculum: HISTORY (CODE 9338)

Course Coordinator: Valer	nti Paola
	dies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)
Places: 8(°)– Grants: 7 (*)	
(*) 6 grants funded by Univ to be paid by the recipient, i	ersità degli Studi di Genova, the annual gross amount of the grant, including social security expenses s $\in$ 16.500,00
	D.M. 351/2022 (Azione Dottorati per il patrimonio culturale), under condition to the approval of ual gross amount of the grant, including social security expenses to be paid by the recipient, is $\in$
	iversity refer to the doctoral research course in its entirety and not to the single curriculum. The be the same for all the curricula and will draw up a single merit list.
The grant funded within D.	M. 351/2022 refers only to the curriculum of ART HISTORY.
	yee of Promo P.A. Fondazione refers only to the curriculum of ART HISTORY (°°)
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	The interview of admitted candidates will remotely take place (using Microsoft TEAMS) on 21 July 2022, at 8.30 (CET).
	Further information will be provided via e-mail after 30 June 2022.
Further information on	Curriculum vitae, qualifications, Master Thesis, publications and Research Project must be
how to present qualifications/publications	included in pdf format, as attachments to the application. Only the qualifications and publications relating to the LAST 3 SOLAR YEARS prior to the calendar year of publication of the call (excluding the Master's degree, which will be assessed even if previous) will be assessed. Qualifications and publications must be congruent with the research themes of the PhD
	Programme. Qualifications include: 1) Master's Degree ( <i>Laurea Magistrale</i> or <i>quadriennale(vecchio ordinamento)</i> or an equivalent
	degree; 2) Copy of the MA dissertation;
	3) Scientific Publications, consistent with the research themes of the PhD Programme: - books;
	- articles in scientific journals (Class A or B in the ANVUR classification); - essays in collective volumes;
	<ul> <li>brief essays, critical notes, editorships;</li> <li>4) Other qualifications:</li> </ul>
	Advanced Training Courses Degrees ( <i>corsi di perfezionamento e/o di specializzazione e/o di Alta Formazione</i> ); Masters in disciplines related to the research themes of the PhD Programme;
	PhD title; Additional Master's degree in disciplines related to the research themes of the Phd Programme; Grants, Fellowships, Awards;
	Research activity in scientific institutions;
	Teaching activity in academic institutions;
	Study experiences abroad;
	Internships, Traineeships and professional experiences related to the research the mes of the PhD programme;
	Title of <i>cultore della materia</i> or member of examination committees in academic institutions.
Exam Syllabus	The comparative assessment will be based on the evaluation of the candidate's qualifications, the research project and the interview designed to assess the skills and knowledge required for
	admission to the PhD programme. The interview will evaluate in particular:
	• Argumentative and analytical skills with regard to the presentation of the research project;
	<ul> <li>Arguine fractive and analytical skins with regard to the presentation of the research project, knowledge of the state-of-the-art and historiographic context related to the research project;</li> <li>Foreign language proficiency</li> </ul>
	<u>09 and a by a state</u> }
Research Themes	Research Themes are published on the website of the Phd Programme: http://archivio.dafist.unige.it/home/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico- architettonico-e-ambientale/
Information on references	Letters of refence are not required and, if eventually received, will not be taken into account for the
mor mation on references	Letters of referice are not required and, if eventually received, will not be taken into account for the

	evaluation.
Foreign Languages	The interview will test the candidate's knowledge of one of these languages: English, French,
	German or Spanish
	The candidate can choose one of these languages for the interview: Italian, English, French,
	German or Spanish.
Further Information	For further information on the curriculum, send an email to:
	francesco.cassata@unige.it
	-

 $\binom{\circ}{\circ}$  1 place added following the letter of intent dated 8.06.2022

# Curriculum: ART HISTORY (CODE 9339)

Course Coordinator: Valer	nti Paola
	idies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)
Places: 8(°) – Grants: 7 (*	
	ersità degli Studi di Genova, the annual gross amount of the grant, including social security expenses
to be paid by the recipient, i	
	D.M. 351/2022 (Azione Dottorati per il patrimonio culturale), under condition to the approval of
	1000000000000000000000000000000000000
16.500,00.	and gross amount of the grant, menduing social security expenses to be paid by the recipient, is e
10.300,00.	
Grants (6) funded by the Ur	niversity refer to the doctoral research course in its entirety and not to the single curriculum. The
	be the same for all the curricula and will draw up a single merit list.
	oo tho sume for an tho carnou a una trin aratt ap a single more not.
The grant funded within D.	M. 351/2022 refers only to the curriculum of ART HISTORY.
	oyee of Promo P.A. Fondazione refers only to the curriculum of ART HISTORY ( ^{oo} )
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	The interview of admitted candidates will remotely take place (using Microsoft TEAMS) on 21
	July 2022, at 8.30 (CET).
	Further information will be provided via e-mail after 30 June 2022.
Further information on	Curriculum vitae, qualifications, Master Thesis, publications and Research Project must be
how to present	included in pdf format, as attachments to the application. Only the qualifications and publications
qualifications/publications	relating to the LAST 3 SOLAR YEARS prior to the calendar year of publication of the call
quantications/ publications	(excluding the Master's degree, which will be assessed even if previous) will be assessed.
	Qualifications and publications must be congruent with the research themes of the PhD
	Programme.
	Qualifications include:
	1) Master's Degree (Laurea Magistrale or quadriennale (vecchio or dinamento) or an equivalent
	degree;
	2) Copy of the MA dissertation;
	3) Scientific Publications, consistent with the research themes of the PhD programme:
	- books;
	- articles in scientific journals (Class A or B in the ANVUR classification);
	- essays in collective volumes;
	<ul><li>brief essays, critical notes, editorships;</li><li>4) Other qualifications:</li></ul>
	Advanced Training Courses Degrees (corsi di perfezionamento e/o di specializzazione e/o di Alta
	<i>Formazione</i> ); Masters in disciplines related to the research themes of the PhD Programme;
	PhD title;
	Additional Master's degree in disciplines related to the research themes of the Phd Programme;
	Grants, Fellowships, Awards;
	Research activity in scientific institutions;
	Teaching activity in academic institutions;
	Study experiences abroad;
	Internships, Traineeships and professional experiences related to the research the mes of the PhD
	programme;
	Title of <i>cultore della materia</i> or member of examination committees in academic institutions.
Exam Syllabus	The comparative assessment will be based on the evaluation of the candidate's qualifications, the
	research project and the interview designed to assess the skills and knowledge required for
	admission to the PhD programme.
	The interview will evaluate in particular:
	• Argumentative and analytical skills with regard to the presentation of the research project;
	knowledge of the state-of-the-art and historiographic context related to the research project;
	Foreign language proficiency
Research Themes	Descent Themes are published on the website of the Dhd Dro groupses.
Research Inemes	Research Themes are published on the website of the Phd Programme:
	http://archivio.dafist.unige.it/home/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico-
	architettonico-e-ambientale/
	Degeneral Theme for the position for ded by the DNDD DN (251 (D-tained and11-2)
	Research Theme for the position funded by the PNRR DM 351 ('Patrimonio culturale'):
	Genoese museums and inter-ethnic inclusiveness: identification of case studies, iconographic
	surveys, design of museum itineraries and didactic devices for a new communication of the

	'Difficult Heritage' hidden in the city's art collections.
	Research Theme for the position reserved to employee of Promo P.A. Fondazione: Bus in ess and Culture: the Production of Social and Economic Value Through the Contamination of the two Systems. The model that characterized the encounter between business and culture was characterized, for a long time, by the "patronage" approach, which manifests itself through sponsorship: a vehicle of social commitment, a manifestation of a cultural sensitivity on the part of the entrepreneur, but an action functional only to the reputation and corporate image. (°°)
Information on references	Letters of refence are not required and, if eventually received, will not be taken into account for the
	evaluation.
Foreign Languages	The interview will test the candidate's knowledge of one of these languages: English, French,
	German or Spanish
	The candidate can choose one of these languages for the interview: Italian, English, French,
	German or Spanish.
Further Information	For further information of this curriculum, send an email to:
	paola.valenti@unige.it

(°°) 1 place added following the letter of intent dated 8.06.2022

# Curriculum: ARCHEOLOGY (CODE 9340)

Course Coordinatory Valor		
Course Coordinator: Valer		
	idies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)	
<b>Places:</b> $8(^{\circ})$ – <b>Grants:</b> $7(^{*})$		
	ersità degli Studi di Genova, the annual gross amount of the grant, including social security expenses	
to be paid by the recipient, i		
	D.M. 351/2022 (Azione Dottorati per il patrimonio culturale), under condition to the approval of	
$ Ministerial funding; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is \in \mathbb{R}^{3}$		
16.500,00.		
Grants (6) funded by the Ur	niversity refer to the doctoral research course in its entirety and not to the single curriculum. The	
	be the same for all the curricula and will draw up a single merit list.	
	se the sume for an the carrie and win allow up a single next list.	
The grant funded within D.	M. 351/2022 refers only to the curriculum of ART HISTORY.	
	oyee of Promo P.A. Fondazione refers only to the curriculum of ART HISTORY (°°)	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW	
procedure		
Interview	The interview of admitted candidates will remotely take place (using Microsoft TEAMS) on 21	
	July 2022, at 8.30 (CET).	
	Further information will be provided via e-mail after 30 June 2022.	
Further information on	Curriculum vitae, qualifications, Master Thesis, publications and Research Project must be	
how to present	included in pdf format, as attachments to the application. Only the qualifications and publications	
qualifications/publications		
quantications/ publications	(excluding the Master's degree, which will be assessed even if previous) will be assessed.	
	Qualifications and publications must be congruent with the research themes of the PhD	
	Programme.	
	Qualifications include:	
	1) Master's Degree (Laurea Magistrale or quadriennale (vecchio or dinamento) or an equivalent	
	degree;	
	2) Copy of the MA dissertation;	
	3) Scientific Publications, consistent with the research themes of the PhD programme:	
	- books;	
	- articles in scientific journals (Class A or B in the ANVUR classification); - essays in collective volumes;	
	<ul><li>brief essays, critical notes, editorships;</li><li>4) Other qualifications:</li></ul>	
	Advanced Training Courses Degrees (corsi di perfezionamento e/o di specializzazione e/o di Alta	
	<i>Formazione</i> ); Masters in disciplines related to the research themes of the PhD Programme;	
	PhD title;	
	Additional Master's degree in disciplines related to the research themes of the Phd Programme;	
	Grants, Fellowships, Awards;	
	Research activity in scientific institutions;	
	Teaching activity in academic institutions;	
	Study experiences abroad;	
	Internships, Traineeships and professional experiences related to the research the mes of the PhD	
	programme;	
	Title of <i>cultore della materia</i> or member of examination committees in academic institutions.	
Exam Syllabus	The comparative as sessment will be based on the evaluation of the candidate's qualifications, the	
	research project and the interview designed to assess the skills and knowledge required for	
	admission to the PhD programme.	
	The interview will evaluate in particular:	
	• Argumentative and analytical skills with regard to the presentation of the research project;	
	knowledge of the state-of-the-art and historiographic context related to the research project;	
	<ul> <li>Foreign language proficiency</li> </ul>	
Research Themes	Desearch Themes are published on the website of the Dhd Drogrammer	
Nesearch Themes	Research Themes are published on the website of the Phd Programme: http://archivio.dafist.unige.it/home/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico-	
	<u>http://archivio.danst.unige.tt/nome/ricerca/studio-e-valorizzazione-del-patrimonio-storico-artistico-</u> architettonico-e-ambientale/	
Information on reference	I attars of reference are not required and if avantually received will not be taken into account fourth-	
Information on references	Letters of refence are not required and, if eventually received, will not be taken into account for the	
	evaluation.	
Information on references Foreign Languages		

	The candidate can choose one of these languages for the interview: Italian, English, French, German or Spanish.
Further Information	For further information on this curriculum, send an email to:
	fabrizio.benente@unige.it

(°°) 1 place added following the letter of intent dated 8.06.2022

# Curriculum: ART HISTORY – CLOE Project (CODE 9341)

Course Coordinator: Valenti Paola

<b>Course Coordinator:</b> Valer	dies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)
<b>Places:</b> 1 (°) – <b>Grants:</b> 0	(D) $(D)$
(°) 1 position covered with I 2020 "CLOE - Training to	Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND- complexity: multidisciplinary approaches to rural and mountain sustainable development and 034449. For more details, see the Marie Skłodowska Curie COFUND project website at
years of research career at th to satisfy the 'mobility rule' than 12 months in the three	oject, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 he date of the recruitment and not have been already awarded a PhD degree before. ESRs have also : they must not have resided or carried out their main activity (work, study etc.) in Italy for more years prior to the date of recruitment. Compulsory national service, short stays such as holidays and ure to obtain refugee status under the Geneva Convention are not taken into account for the
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Înterview	The interview of admitted candidates will remotely take place (using Microsoft TEAMS, SKYPE or other platform) on 22 July 2022, at 9.30 (CET). Further information will be provided via e-mail after 30 June 2022.
Further information on	The application must include the following documents (.pdf format):
how to present qualifications/publications	1.A copy of a Valid Passport/ID; 2.A translation of the academic qualifications duly notarized by the Italian diplomatic or consular office of the Country in which the qualifications were obtained and Declaration of Value of the qualifications prepared by the Italian diplomatic consular Representatives, that is located in the
	Country where the qualifications were obtained. If the Italian diplomatic or consular office does not provide the documentation in time for the application, applicants should enclose all the documentation available (e.g. degree certificates, transcript of records);
	3.In case of qualifications issued by an EU contry, previous documents may be replaced by the Diploma Supplement delivered by the University which has issued the title, according to the standards of the EU and UNESCO/CEPES;
	4.Master thesis extended abstract (max 10 pages); 5.Curriculum Vitae;
	6.Letter of Motivation;
	7.A self-declaration ( <u>https://cloe.dp.unige.it/en/application_package_2022</u> ) to demonstrate that they respect the MSCA mobility rule, the ESR definition, and the English language proficiency (IELTS scores, TOEFL results, or proof of a degree awarded in English);
	8.Research project proposal (max. 10.000 charaters, including spaces, footnotes and references); 9.Ethics self-assessment - through the form available at the following link:
	https://cloe.dp.unige.it/en/application_package_2022 10.Up to three letters of reference; 11.Publication(s)/Patent(s) (optional; max. 5)
	From the CV and other documents enclosed the following data should result: a) University degree and the final note or qualification thereof;
	<ul> <li>b) any other post-lauream degree (like, e.g., Master degrees);</li> <li>c) publications concerning one or more of the research topics of the present Curriculum, if any;</li> <li>d) research experiences and research and educational activities, if any.</li> </ul>
	Further information on the submission of the applications are available on the project website at the following link: <u>http://cloe.dp.unige.it</u> .
	From the Curriculum Vitae and the related documents the following information should result: a) University degree and the final note or qualification thereof;
	<ul> <li>b) any other post-laureamdegree (like, e.g., Master degrees);</li> <li>c) publications, if any (they will be assessed only if pdf copy will be provided);</li> <li>d) research experiences and research and educational activities, if any.</li> </ul>
	For further information it is recommended to vis it the the project's website at the following link: <u>https://cloe.dp.unige.it</u> .

Exam Syllabus	The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme.
	<ul> <li>The research project has to be written in English and must fit clearly into one of the research topics singled out in the box "Research topics"</li> <li>The PhD research project must be organized according to the following points: - Objectives; - Sources and state of the art; - Importance for the advancement of knowledge; - Proposed methodology; - A developmental work plan.</li> <li>The PhD research project, including bibliography, must not exceed 30.000 characters, spaces included.</li> </ul>
	<ul> <li>The interview will be in English and will concern the presentation and discussion of the research project by the candidate and is aimed at verifying its aptitude for scientific research The evaluation will be based on the following criteria:</li> <li>argumentative skills in the presentation of the research project, knowledge of the state of the art and general preparation on themes and topics related to the project;</li> <li>foreign language knowledge</li> </ul>
	Further information at the following link <u>https://cloe.dp.unige.it</u>
Research Themes	The applicant must submit a project based on one of the two research paths proposed below or combine them:
	- retracing and mapping the presence of major artists and architects of the XX century in the Ligurian hinterland
	- designing and developing strategies to connect cultural memories and the sustainable enhancement of the mountain and rural areas surrounding the region
<b>.</b>	For further information on research themes and on the project proposal structure it is recommended to visit the the project's website at the following link: <u>https://cloe.dp.unige.it</u> .
Information on references	Candidates must provide up to three letters of reference supporting their application.
	The letters must be written by Academics, or Experts, in the research topics of the Curriculum. They will send their letter of reference, within the deadline established in the Call, directly to the following addresses:
	<u>paola.valenti@unige.it</u> (with <u>cloe.dp@unige.it</u> in cc).
	In their application form, candidates must point out the name, the qualification, and the workplace of the persons that will write reference letters for them.
Foreign Languages	English
Further Information	Within the three years of the Program (and, preferably, during the second year) PhD students shall spend at least 6 months abroad, or at qualified international training centers in Italy, doing research on the topic of their Phd dissertation (possibly also non-consecutive, but in any case – for each fraction – of adequate consistency).
	PhD Programme coordinator: Prof. Paola Valenti <u>paola.valenti@unige.it</u>
	CLOE COFUND Supervisor in the PhD curriculum: Prof. Paola Valenti ( <u>paola.valenti@unige.it</u> )

Course Coordinator: Valenti Paola

## Curriculum: ARCHEOLOGY – CLOE Project (CODE 9342)

	idies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia – DAFIST)
<b>Places:</b> $2(^{\circ})$ – <b>Grants:</b> $0$	
2020 "CLOE - Training to	Research Grant as per the amount foreseen within the European project H2020-MSCA-COFUND- complexity: multidisciplinary approaches to rural and mountain sustainable development and 034449. For more details, see the Marie Skłodowska Curie COFUND project website at
years of research career at th to satisfy the 'mobility rule' than 12 months in the three	oject, the position is reserved to early-stage researchers (ESRs): researchers must be in their first 4 he date of the recruitment and not have been already awarded a PhD degree before. ESRs have also : they must not have resided or carried out their main activity (work, study etc.) in Italy for more years prior to the date of recruitment. Compulsory national service, short stays such as holidays and ure to obtain refugee status under the Geneva Convention are not taken into account for the
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
Interview	The interview of admitted candidates will remotely take place (using Microsoft TEAMS, SKYPE or other platform) on 22 July 2022, at 9.30 (CET). Further information will be provided via e-mail after 30 June 2022.
Further information on	The application must include the following documents (.pdf format):
how to present	1.A copy of a Valid Passport/ID;
qualifications/publications	2.A translation of the academic qualifications duly notarized by the Italian diplomatic or consular
	office of the Country in which the qualifications were obtained and Declaration of Value of the qualifications prepared by the Italian diplomatic-consular Representatives, that is located in the Country where the qualifications were obtained. If the Italian diplomatic or consular office does not provide the documentation in time for the application, applicants should enclose all the
	documentation available (e.g. degree certificates, transcript of records); 3.In case of qualifications issued by an EU contry, previous documents may be replaced by the Diploma Supplement delivered by the University which has issued the title, according to the standards of the EU and UNESCO/CEPES;
	4.Master thesis extended abstract (max.10 pages); option 2 10.000 characters 5.Curriculum Vitae; 6.Letter of Motivation;
	7.A self-declaration ( <u>https://cloe.dp.unige.it/en/application_package_2022</u> ) to demonstrate that they respect the MSCA mobility rule, the ESR definition, and the English language proficiency (IELTS scores, TOEFL results, or proof of a degree awarded in English);
	8.Research project proposal (max. 10.000 charaters, including spaces, footnotes and references); 9.Ethics self-assessment - through the form available at the following link: https://cloe.dp.unige.it/en/application package 2022
	10.Up to three letters of reference; 11.Publication(s)/Patent(s) (optional; max. 5)
	From the CV and other documents enclosed the following data should result: a)University degree and the final note or qualification thereof;
	b)any other post-lauream degree (like, e.g., Master degrees); c)publications concerning one or more of the research topics of the present Curriculum, if any; d)research experiences and research and educational activities, if any.
	Further information on the submission of the applications are available on the project website at the following link: <u>http://cloe.dp.unige.it</u> .
	Only the titles and publications relating to the LAST 3 SOLAR YEARS prior to the calendar year of publication of the call (excluding the degree diploma, which will be assessed even if previous) will be assessed and deemed congruent with the research topics of the PhD course.

Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia - DAFIST)

Exam Syllabus	The comparative assessment will be based on an evaluation of the candidate's qualifications, a research project and an interview designed to assess the skills and knowledge required for admission to a PhD programme.
	<ul> <li>The research project has to be written in English and must fit clearly into one of the research topics singled out in the box "Research topics"</li> <li>The PhD research project must be organized according to the following points: - Objectives; - Sources and state of the art; - Importance for the advancement of knowledge; - Proposed methodology; - A developmental work plan.</li> <li>The PhD research project, including bibliography, must not exceed 30.000 characters, spaces included.</li> </ul>
	<ul> <li>The interview will be in English and will concern the presentation and discussion of the research project by the candidate and is aimed at verifying its aptitude for scientific research The evaluation will be based on the following criteria:</li> <li>argumentative skills in the presentation of the research project, knowledge of the state of the art and general preparation on themes and topics related to the project;</li> <li>foreign language knowledge</li> </ul>
	Further information at the following link <u>https://cloe.dp.unige.it</u>
Research Themes	The candidate has to choose one of the four proposed themes for the preparation of the research project:
	<ul> <li>Theme 1. Rural archaeology and history: space, environmental resources and access rights</li> <li>Theme 2. Rural heritage and landscapes definition, construction and conservation</li> <li>Theme 3. Historical practices and new models of sustainable conservation and development.</li> <li>Theme 4. Landscape of practices and landscape for rights and the changes in institutional definitions;</li> </ul>
	For further information on research themes and on the project proposal structure is recommended to visit the the project's website at the following link: <u>https://cloe.dp.unige.it</u> .
Information on references	Candidates must provide up to three letters of reference supporting their application.
	The letters must be written by Academics, or Experts, in the research topics of the Curriculum. They will send their letter of reference, within the deadline established in the Call, directly to the following addresses: anna.stagno@unige.it (with cloe.dp@unige.it in cc).
	In their application form, candidates must point out the name, the qualification, and the work place of the persons that will write reference letters for them.
Foreign Languages	English
Further Information	Within the three years of the Program (and, preferably, during the second year) PhD students s hall spend at least 6 months abroad, or at qualified international training centers in Italy, doing research on the topic of their Phd dissertation (possibly also non-consecutive, but in any case – for each fraction – of adequate consistency).
	Curriculum coordinator: Prof. Paola Valenti ( <u>paola.valenti@unige.it</u> )
	CLOE COFUND Supervisor in the PhD curriculum: Prof. Anna Stagno ( <u>anna.stagno@unige.it</u> )

Course Coordinator: Scion	
	Dipartimento di Economia – DIEC)
Places: 4 – Grants: 4 (*)	
	niversità degli Studi di Genova, the annual gross amount of the grant, including social security
expenses to be paid by the r	
	UR/DIEC, the gross annual amount of the scholarship is € 16.500,00 including social security
	.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), under condition to the approval
of Ministerial funding; the a 16.500,00.	annual gross amount of the grant, including social security expenses to be paid by the recipient, is $\in$
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	Transform 26th July 2022 0.20 and at Department of Francesian (DIFO). Course Hairweiter
Interview	Tuesday 26th July 2022, 9.39 a.m. at Department of Economics (DIEC), Genoa University, Genoa.
	The interviews may also take place electronically with a Skype or Teams connection, video included to check identity.
Further information on	In presenting their CV, it is important for candidates to highlight the following features as they
how to present qualifications/publications	will be used as evaluative parameters: publications done (e.g. in International Journals, International Conferences, Book Chapters), the degree mark (or equivalent qualification) obtained,
	work experience and acquired skills.
	It is also important for candidates to highlight the following features when presenting their
	research project as they will be used as evaluative parameters: Relevance to the research themes that appear in this public exam, Originality, Execution modalities, Feasibility, Clear
	presentation/exposition.
	The outline for the presentation of the research project plan, which should not exceed 10 pages
	should give an idea of the motivations and logic foundation, objectives and a preliminary State of
	the Art.
Exam Syllabus	The interview will aim to verify the candidate's competence in relation to the listed research topics
	and the methodological ability to deal with research problems. In addition, the interview will also
	focus on the themes of the research project, inherent to the listed research themes, presented by the
	candidate.
Research Themes	The main research topics of interest for the PhD in Strategic Engineering are as follows:
	1. Complex Systems Analysis
	<ol> <li>Computational Intelligence &amp; AI</li> <li>Conflict management</li> </ol>
	4. Crowdsourcing
	5. Cyber Security
	6. Decision Making
	7. Game Theory
	8. Green Transition
	9. Modelling
	10. International & Law Affairs
	11. Logistics & Supply Chain Management
	12. Modeling (Human Behavior, Systems)
	13. Optimization: Models and Methods
	14. Project Management 15. Simulation
	16. Safety and security
	17. Sanitation, Hygiene
	18. Risk Analysis
	19. Strategic Engineering
	20. Strategic Planning & Management
	21. Strategies in: Defence & Aerospace, Economy, Health care, Industry and Industrial Plants,
	Informatics & Communication Technologies, Water 22. Systems Engineering.
	More detailed information on the specific themes at the web site: www.simulationteam.com/strategos/phd
	Only for the grant funded within D.M. 351/2022 (Azione Dottorati per la Pubblica Amministrazione), research topics 2, 12 and 19 must be referred for applications. The proposed research project must focus on the design and simplification of organizational models for public
	research project must rocus on the design and simplification of organizational models for public

Information on references	administration, through digital enabling solutions based on algorithms and optimization models. The project should foster the digital transition of public administrations. Analysing the enormous amount of data (Big Bata) from the various PA information systems (Databases), a digital solution must be developed based on artificial intelligence, capable of classifying data and transforming theminto information. The focus of the project must be centred on datarelating to PA users, in order to design algorithms and optimization models capable of rationalising and organising work automatically, e.g. through the automatic creation of timetables, work schedules, planning, and staff scheduling in order to ensure greater effectiveness, efficiency and cost-effectiveness for PA. Candidates must choose not less than one and not more than three referees to support their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following addresses: sciomach@economia.unige.it. The name, status and service place of the referees chosen by the candidates must be stated in the ir applications. The candidates' aptitude for scientific research must emerge from the contents of the reference letters.
Foreign Languages	English
Further Information	For further information, please contact the Members of the PhD Programme Committee by e-mail: Agostino Bruzzone (agostino@itim.unige.it), Elvezia Cepolina (elvezia.maria.cepolina@unige.it), Anna Sciomachen (sciomach@economia.unige.it)

#### Course: ROBOTICS AND INTELLIGENT MACHINES

Dottorato di "interesse nazionale" in agreement with Università di PISA, Università degli Studi della BASILICATA, Università degli Studi di FERRARA, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Università degli Studi di CATANIA, Università degli Studi di ROMA "La Sapienza", Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT) Consiglio Nazionale delle Ricerche (CNR) and Scuola Superiore Sant'Anna (⁵⁰)

## Curriculum: HOSTILE AND UNSTRUCTURED ENVIRONMENTS (CODICE 9347)

Coordinator: Cannata Gior	gio
	eering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica
e ingegneria dei sistemi – D	
Places: 7 – Grants: 7 (*)	
	unded by the associated parties; the annual gross amount of the grant, including social security
expenses to be paid by the r	
	D.M. 351/2022, under condition to the approval of Ministerial funding; the annual gross a mount
of the grant, including socia	I security expenses to be paid by the recipient, is $\notin$ 16.500,00. (°°°)
	ant fully funded by companies on behalf and associated parties; the annual gross amount of the
	rity expenses to be paid by the recipient, is € 16.500,00. (°°°)
(*) 1 grant cofunded by MU	$\mathbb{R}$ /DIBRIS, the gross annual amount of the scholarship is $\in 16.500,00$ including social security
contributions charged to the	scholarship recipient. ( ⁰⁰⁰ )
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
P- 000 000 0	july 25th at 9:30
	Candidates are ranked separately for each research theme they applied.
	Step 1 – Assessment of qualifications (maximum 60 points).
	Candidates are ranked on the basis (not in order or relevance) of their student career,
	Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsemen
	letters.
	Candidates are admitted to Step 2 if their score is greater than or equal to 40 points.
	<b>Step 2 – Oral examination</b> (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview.
	The oral examination for each research theme is passed if the score is greater than or equal to 40 points.
	The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).
Further information on	Candidates <u>must</u> :
how to present qualifications/publications	<ul> <li>submit the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent indicator);</li> </ul>
	<ul> <li>specify up to three research themes of their interest (see the research themes listed below and at <u>Admission – Drim – Irim (i-rim.it)</u>);</li> </ul>
	<ul> <li>submit a motivation letter (Research project) related to one (or more) of the research themes selected; use the template available at: <u>Admission – Drim – Irim (i-rim.it)</u>;</li> </ul>
	<ul> <li>submit a Curriculum Vitae including all the technical scientific studies/activities already done and pertinent to the doctoral program;</li> </ul>
	<ul> <li>submit up to 3 recommendation letters from university professors or recognized experts in the field supporting the candidate;</li> </ul>
Research Themes	1. AI methods for Robots in Unstructured Environments – Italian Inst. of Technology

	2. Detection and tracking of obstacles for autonomous marine vehicles – Univ. Genova
	<ol> <li>Distributed tactile sensing for elephant-trunk inspired soft manipulators Italian Inst. of Technology (^{ooo})</li> </ol>
	3. End-to-endstructured design methodologies for safe adaptive robots – Univ. Genova (°°°)
	4. Social perception in unstructured environments – Univ. Milano Bicocca
	5. Soft growing and adaptable robots for exploration of extreme environments – Italian Inst. of Technology
	$ 6. \ Traversa bility for Mobile Robots in Hostile and Unstructured Environments - Univ. \ Catania \\$
	7. Soft Robotics for Human Cooperation and Rehabilitation (II) Italian Inst. of Technology
	For a complete description of the research themes proposed check:
	Admission – Drim – Irim (i-rim.it)
Information on references	Candidates must choose no more than three recommenders to endorse their candidature.
	The recommenders must be university professors or recognized experts in the field, and must
	upload the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to: <u>https://forms.gle/TT4UwLqrjf88Cban6</u>
Foreign Languages	English
1 of eigh Languages	
Further Information	For more information about
	<ul> <li>the research themes please check the contact person indicated in the project themes description file available at:</li> <li><u>Admission – Drim – Irim (i-rim.it)</u></li> </ul>
	<ul> <li>the doctorate rules and structure please check:</li> <li><u>RULES – Drim – Irim (i-rim.it)</u></li> <li><u>CURRICULA AND THEMES – Drim – Irim (i-rim.it)</u></li> </ul>
	<ul> <li>other enquiries contact the Doctorate Secretary:</li> <li><u>phd_drim@unige.it</u></li> </ul>
	A step-by-step guideline for the application is available here: <u>https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf</u>
( ^{oo} ) Information updated follo	wing request dated 9.06.2022

(°°) Information updated following request dated 9.06.2022 (°°°) Information updated following request dated 15.06.2022 and agreement amendment received from IIT dated 30.05.2022

#### Corso: ROBOTICS AND INTELLIGENT MACHINES

Dottorato di "interesse nazionale" in agreement with Università di PISA, Università degli Studi della BASILICATA, Università degli Studi di FERRARA, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Università degli Studi di CATANIA, Università degli Studi di ROMA "La Sapienza", Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT) Consiglio Nazionale delle Ricerche (CNR) and Scuola Superiore Sant'Anna (⁹⁰)

#### Curriculum: INDUSTRY 4.0 (CODICE 9348)

Coordinator: Cannata Gior	gio
	eering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e
ingegneria dei sistemi – DIB	
Places: 15 (°) (°°°) – Grants	s: 14 (*)
(*) 6 doctorate grants fully f expenses to be paid by the r	unded by the associated parties; the annual gross amount of the grant, including social security ecipient, is $\notin 16.500,00$ .
(*) 5 grants funded within [	D.M. 351/2022, under condition to the approval of Ministerial funding; the annual gross amount of
the grant, including social so	ecurity expenses to be paid by the recipient, is € 16.500,00.
	D.M. 352/2022, under condition to the approval of Ministerial funding; the annual gross amount of
the grant, including social se	ecurity expenses to be paid by the recipient, is € 16.500,00.
(°) 1 place reserved to empl	
Comparative assessment	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	
•	<u>july 25th at 9:30</u>
	Candidates are ranked separately for each research theme they applied.
	Step 1 – Assessment of qualifications (maximum 60 points).
	Candidates are ranked on the basis (not in order or relevance) of their student career, Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters.
	Candidates are admitted to Step 2 if their score is greater than or equal to 40 points.
	<b>Step 2 – Oral examination</b> (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview.
	The oral examination for each research theme is passed if the score is greater than or equal to 40 points.
	The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).
Further information on	Candidates <u>must</u> :
how to present	
qualifications/publications	<ul> <li>submit the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent indicator);</li> </ul>
	<ul> <li>specify upto three research themes of their interest (see the research themes listed below and at <u>Admission – Drim – Irim (i-rim.it)</u>);</li> </ul>
	<ul> <li>submit a motivation letter (Research project) related to one (or more) of the research themes selected; use the template available at: <u>Admission – Drim – Irim (i-rim.it)</u>;</li> </ul>
	<ul> <li>submit a Curriculum Vitae including all the technical scientific studies/activities already done and pertinent to the doctoral program;</li> </ul>
	<ul> <li>submit up to 3 recommendation letters from university professors or recognized experts in the field supporting the candidate;</li> </ul>
Research Themes	1. Mechatronic Technologies for the Smart Factory - Intellimech & Univ. Pisa
	2. Mechatronic Technologies for Intelligent Machines - Intellimech & Univ. Pisa
	3. Swarms of Heterogeneous Soft Robots - National Research Council - ISTC
	4. Planning and coordination of collaborative robot teams for manufacturing applications -
	+. I annung and coordination of conaborative robot teams for manufacturing applications -

	National Research Council – STIIMA
	5. Intelligent Machines for small batch production - National Research Council – STIIMA
	6. New protocols and control algorithms for closer human-robot cooperation - Polytechnic University of Marche
	7. Cooperative and collaborative control for mobile manipulators – Univ. Basilicata
	8. Learning and Control Methods for Autonomous Robots in ComplexIndustrial Scenarios – Univ. of Bologna
	9. Development of CAE-based tools for electronic cams optimization – Univ. Genova
	10. Multimodal Sensing for Robot Self-aware Control – Univ. Genova
	11. Human-Robot Interaction for Industry 4.0 and Service Robotics – Univ. Napoli Federico II
	12. Optimization of collaborative robotic assembly tasks – Univ. Padova
	13. Planning and control strategies for robotic manipulators embedding elastic elements for efficient manipulation – Univ. Pisa
	14. Robotic trajectory planning for industrial sustainability – Univ. Udine
	15. Advanced Human-Robot Interaction and Collaboration – Italian Inst. Of Technology.
	For a complete description of the research themes proposed check: <u>Admission – Drim – Irim (i-rim.it)</u>
Information on references	Candidates must choose no more than three recommenders to endorse their candidature. The recommenders must be university professors or recognized experts in the field, and must upload the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to: <u>https://forms.gle/TT4UwLqrjf88Cban6</u>
Foreign Languages	English
<b>EIf</b>	
Further Information	For more information about
	<ul> <li>the research themes please check the contact person indicated in the project themes description file available at:</li> <li><u>Admission – Drim – Irim (i-rim.it)</u></li> </ul>
	<ul> <li>the doctorate rules and structure please check:</li> <li><u>RULES – Drim – Irim (i-rim.it)</u></li> <li><u>CURRICULA AND THEMES – Drim – Irim (i-rim.it)</u></li> </ul>
	<ul> <li>for other enquiries contact the Doctorate Secretary:</li> <li><u>phd_drim@unige.it</u></li> </ul>
	A step-by-step guideline for the application is available here: https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf
^(°°) Information updated following red	

(°°°) place added following the agreement dated 26.5.2022

#### Corso: ROBOTICS AND INTELLIGENT MACHINES

Dottorato di "interesse nazionale" in agreement with Università di PISA, Università degli Studi della BASILICATA, Università degli Studi di FERRARA, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Università degli Studi di CATANIA, Università degli Studi di ROMA "La Sapienza", Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT) Consiglio Nazionale delle Ricerche (CNR) and Scuola Superiore Sant'Anna (⁹⁰)

#### Curriculum: INSPECTION AND MAINTENANCE OF INFRASTRUCTURES (CODICE 9349)

Coordinator: Cannata Gior	gio
	eering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e
ingegneria dei sistemi – DIB	BRIS)
Places: 5 – Grants: 5 (*)	
expenses to be paid by the r	Funded by the associated parties; the annual gross amount of the grant, including social security ecipient, is $\notin$ 16.500,00. D.M. 351/2022, under condition to the approval of Ministerial funding; the annual gross amount of
the grant, including social so	ecurity expenses to be paid by the recipient, is € 16.500,00.
Comparative assessment	OUALIFICATIONS/PUBLICATIONS AND INTERVIEW
procedure	<u>july 25th at 9:30</u>
	Candidates are ranked separately for each research theme they applied.
	<b>Step 1 – Assessment of qualifications</b> (maximum 60 points). Candidates are ranked on the basis (not in order or relevance) of their student career, Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters.
	Candidates are admitted to Step 2 if their score is greater than or equal to 40 points.
	<b>Step 2 – Oral examination</b> (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview.
	The oral examination for each research theme is passed if the score is greater than or equal to $40$ points.
	The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).
Further information on	Candidates <u>must</u> :
how to present qualifications/publications	
	<ul> <li>specify up to three research themes of their interest (see the research themes listed below and at <u>Admission – Drim – Irim (i-rim.it)</u>);</li> </ul>
	<ul> <li>submit a motivation letter (Research project) related to one (or more) of the research themes selected; use the template available at: <u>Admission – Drim – Irim (i-rim.it)</u>;</li> </ul>
	<ul> <li>submit a Curriculum Vitae including all the technical scientific studies/activities already done and pertinent to the doctoral program;</li> </ul>
	<ul> <li>submit up to 3 recommendation letters from university professors or recognized experts in the field supporting the candidate;</li> </ul>
<b>Research Themes</b>	1. Robotic based underwater shallow water infrastructure inspection - Univ. Genova
	2. Autonomous quadrupeds to improve public infrastructures resilience - Univ. Genova
	<ol> <li>Development and experimentation of a Reconfigurable Underwater Vehicle for Inspection, Free-floating Intervention and Survey Tasks - Univ. Firenze</li> </ol>
	4. Human-centric, interactive, personal robotics - Univ. Pisa
	-
	5. Deep learning models for quality control and anomaly detection in Industry 4.0 - CNR

	STIIMA
	For a complete description of the research themes proposed check:
	<u>Admission – Drim – Irim (i-rim.it)</u>
Information on references	The recommenders must be university professors or recognized experts in the field, and must upload the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to: <u>https://forms.gle/TT4UwLqrjf88Cban6</u>
Foreign Languages	English
Further Information	For more information about
	<ul> <li>the research themes please check the contact person indicated in the project themes description file available at:</li> <li><u>Admission – Drim – Irim (i-rim.it)</u></li> </ul>
	<ul> <li>the doctorate rules and structure please check:</li> <li><u>RULES – Drim – Irim (i-rim.it)</u></li> <li><u>CURRICULA AND THEMES – Drim – Irim (i-rim.it)</u></li> </ul>
	<ul> <li>for other enquiries contact the Doctorate Secretary:</li> <li><u>phd_drim@unige.it</u></li> </ul>
	A step-by-step guideline for the application is available here: https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf
^{oo} ) Information updated follo	wing request dated 9.06.2022

#### Corso: ROBOTICS AND INTELLIGENT MACHINES

Dottorato di "interesse nazionale" in agreement with Università di PISA, Università degli Studi della BASILICATA, Università degli Studi di FERRARA, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Università degli Studi di CATANIA, Università degli Studi di ROMA "La Sapienza", Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT) Consiglio Nazionale delle Ricerche (CNR) and Scuola Superiore Sant'Anna (⁹⁰)

#### Curriculum: AGRIFOOD (CODICE 9350)

	2010
<b>Coordinator:</b> Cannata Gior	eering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e
ingegneria dei sistemi – DIB	
Places: 5 – Grants: 5 (*)	
(*) 3 grants funded within D the grant, including social so (*) 2 grants funded within D	D.M. 351/2022, under condition to the approval of Ministerial funding; the annual gross amount of ecurity expenses to be paid by the recipient, is $\in$ 16.500,00. D.M. 352/2022, under condition to the approval of Ministerial funding; the annual gross amount of
	ecurity expenses to be paid by the recipient, is € 16.500,00.
Comparative assessment	<b>QUALIFICATIONS/PUBLICATIONS AND INTERVIEW</b>
procedure	<u>july 25th at 9:30</u>
	Candidates are ranked separately for each research theme they applied.
	<b>Step 1 – Assessment of qualifications</b> (maximum 60 points). Candidates are ranked on the basis (not in order or relevance) of their student career, Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters.
	Candidates are admitted to Step 2 if their score is greater than or equal to 40 points.
	<b>Step 2 – Oral examination</b> (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview.
	The oral examination for each research theme is passed if the score is greater than or equal to 40 points.
	The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).
Further information on	Candidates <u>must</u> :
how to present qualifications/publications	- submit the <b>complete list of all the exams sat during their Bachelor's and Master's degree</b> and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent indicator);
	<ul> <li>specify up to three research themes of their interest (see the research themes listed below and at <u>Admission – Drim – Irim (i-rim.it)</u>);</li> </ul>
	<ul> <li>submit a motivation letter (Research project) related to one (or more) of the research themes selected; use the template available at: <u>Admission – Drim – Irim (i-rim.it)</u>;</li> </ul>
	<ul> <li>submit a Curriculum Vitae including all the technical scientific studies/activities already done and pertinent to the doctoral program;</li> </ul>
	<ul> <li>submit up to 3 recommendation letters from university professors or recognized experts in the field supporting the candidate;</li> </ul>
Research Themes	1. Virtual and Physical Prototyping of Sensorized Compliant Grippers - Univ. Genova
	2. Fresh Food Handling - Univ. Campania Luigi Vanvittelli
	3. Automation of poultry and pig farms always having animal welfare as the goal - Univ. Catania Hypertec Solution Srl (°)
	<ol> <li>Design of poultry and pig farms always having animal welfare as the goal - Univ. Catania Hypertec Solution Srl (^o)</li> </ol>

	5. Autonomous Robotics for mountain agriculture - Univ. Trento
	For a complete description of the research themes proposed check:
	<u>Admission – Drim – Irim (i-rim.it)</u>
Information on references	Candidates must choose no more than three recommenders to endorse their candidature.
	The recommenders must be university professors or recognized experts in the field, and must
	upload the recommendation letters (specifying their name, role and affiliation), within the
	deadline of the public notice, to: <u>https://forms.gle/TT4UwLqrjf88Cban6</u>
Fonoign Longuages	English
Foreign Languages	Eaglisti
Further Information	For more information about
	- the research themes please check the contact person indicated in the project themes description
	file available at:
	<u>Admission – Drim – Irim (i-rim.it)</u>
	- the doctorate rules and structure please check:
	<u>RULES – Drim – Irim (i-rim.it)</u>
	<u>CURRICULA AND THEMES – Drim – Irim (i-rim.it)</u>
	- for other enquiries contact the Doctorate Secretary:
	phd_drim@unige.it
	pha anne angon
	A step-by-step guideline for the application is available here:
	https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf wing request dated 9.06.2022

(°) Information updated following request dated 9.06.2022 (°) Information updated following request dated 15.06.2022

#### Corso: ROBOTICS AND INTELLIGENT MACHINES

Dottorato di "interesse nazionale" in agreement with Università di PISA, Università degli Studi della BASILICATA, Università degli Studi di FERRARA, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Università degli Studi di CATANIA, Università degli Studi di ROMA "La Sapienza", Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT) Consiglio Nazionale delle Ricerche (CNR) and Scuola Superiore Sant'Anna (⁹⁰)

#### Curriculum: HEALTHCARE AND WELLNESS OF PERSONS (CODICE 9351)

Coordinator: Cannata Gior	Coordinator: Cannata Giorgio		
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria, robotica e			
ingegneria dei sistemi – DIE			
<b>Places</b> : 20 – <b>Grants</b> : 20 (*			
(*) 87 doctorate grants fully funded by the associated parties; the annual gross amount of the grant, including social security expenses to be paid by the recipient, is $\notin 16.500, 00.$ (°°°)			
	D.M. 351/2022, under condition to the approval of Ministerial funding; the annual gross amount		
	of the grant, including social security expenses to be paid by the recipient, is $\in$ 16.500,00. (°°°)		
	D.M. 352/2022, under condition to the approval of Ministerial funding; the annual gross amount		
	Is curity expenses to be paid by the recipient, is $\in 16.500,00$ . (°°°)		
Comparative assessment procedure	<b><u>OUALIFICATIONS/PUBLICATIONS</u></b> AND INTERVIEW		
procedure	july 25th at 9:30		
	<u>July 25 ul at 9.50</u>		
	Candidates are ranked separately for each research theme they applied.		
	<b>Step 1 – Assessment of qualifications</b> (maximum 60 points). Candidates are ranked on the basis (not in order or relevance) of their student career, Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters.		
	Candidates are admitted to Step 2 if their score is greater than or equal to 40 points.		
	<b>Step 2 – Oral examination</b> (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each		
	interview.		
	The oral examination for each research theme is passed if the score is greater than or equal to $40$ points.		
	The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).		
Further information on	Candidates <u>must</u> :		
how to present			
qualifications/publications	<ul> <li>submit the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent indicator);</li> </ul>		
	<ul> <li>specify up to three research themes of their interest (see the research themes listed below and at <u>Admission – Drim – Irim (i-rim.it)</u>);</li> </ul>		
	<ul> <li>submit a motivation letter (Research project) related to one (or more) of the research themes selected; use the template available at: <u>Admission – Drim – Irim (i-rim.it)</u>;</li> </ul>		
	<ul> <li>submit a Curriculum Vitae including all the technical scientific studies/activities already done and pertinent to the doctoral program;</li> </ul>		
	<ul> <li>submit up to 3 recommendation letters from university professors or recognized experts in the field supporting the candidate;</li> </ul>		
Research Themes	<ol> <li>AI-based neuromodulation for controlling neuronal activity - Univ. Genova 1. 3D bioprinting of living materials - Univ. Genova (°)</li> </ol>		
	2. Study and development of a highly ergonomic wearable device for movement and posture assessment in rehabilitation, work, and sports - SWHARD-Univ. Genova		
	3. Virtual reality and robotic integration to assess human vestibular performance -		

	MOVENDO Uning Company
	MOVENDO-Univ. Genova
	4. Advanced computer-vision techniques in body machine interfaces for rehabilitation and assistance of people with neurological diseases - MOVENDO-Univ. Genova
	5. Diversity-Aware Social Robots for Education and Social Assistance - Scuola di Robot i ca- Univ. Genova
	6. Legal issues of Robotics and Intelligent machine in medicine and healthcare - Univ. Genova
	7. Design and Operation Methodologies for Upper-Limb Exoskeletons - Univ. Calabria
	8. Social robot as sistant for intelligent health care - Univ. Palermo
	9. Robot assisted rehabilitation for older adults after strokes or traumatic events - Univ. Trento
	10. Robotics enhanced by IoT and AI for healthcare 4.0 - Univ. Campus Bio-Medico Roma
	11. Magnetic multi-robot system control - Scuola Sup. S. Anna Pisa
	12. Intelligent Microscale Robots - Scuola Sup. S. Anna Pisa
	13. Sensing for Medical Robotics - Scuola Sup. S. Anna Pisa
	14. Robotics for healthcare - Politecnico Torino
	15. Bio-inspired friction-based self-locomoting soft microbot - Univ. Salento
	16. Sensorimotor interfaces and control for human-robot collaboration - Univ. Siena
	17. Sensorimotor interfaces and control for human-robot augmentation - Univ. Siena
	<ol> <li>Human-robot coexistence and interaction in robot-assisted medical procedures - Univ. Roma La Sapienza Medlogix (⁰⁰⁰)</li> </ol>
	19. Artificial Intelligence methods and Robotic Assistance in Surgical Procedures - Univ. Modena e Reggio Emilia
	20. Motion and action prediction for human-robot collaboration facilitated by body signals and context - Univ. Bolzano
	For a complete description of the research themes proposed check: Admission – Drim – Irim (i-rim.it)
Information on references	Candidates must choose no more than three recommenders to endorse their candidature. The recommenders must be university professors or recognized experts in the field, and must upload the recommendation letters (specifying their name, role and affiliation), within the deadline of the public notice, to: https://forms.gle/TT4UwLqrjf88Cban6
Foreign Languages	English
Further Information	For more information about
	<ul> <li>the research themes please check the contact person indicated in the project themes description file available at: <u>Admission – Drim – Irim (i-rim.it)</u></li> <li>the doctorate rules and structure please check: <u>RULES – Drim – Irim (i-rim.it)</u> <u>CURRICULA AND THEMES – Drim – Irim (i-rim.it)</u></li> <li>for other enquiries contact the Doctorate Secretary: <u>phd_drim@unige.it</u></li> </ul>
	A step-by-step guideline for the application is available here: <u>https://unige.it/sites/contenuti.unige.it/files/documents/Guida_eng_XXXVII.pdf</u>
	wing request dated 13.06.2022 owing request dated 9.06.2022

(^{°°)} Information updated following request dated 9.06.2022 (^{°°°)} Information updated following request dated 15.06.2022

#### Curriculum: ROBOTICS AND INTELLIGENT MACHINES

Dottorato di "interesse nazionale" in agreement with Università di PISA, Università degli Studi della BASILICATA, Università degli Studi di FERRARA, Università degli Studi di SIENA, Università degli Studi di TRENTO, Università "Campus Bio-Medico" di ROMA, Politecnico di BARI, Università degli Studi di MILANO-BICOCCA, Università della CALABRIA, Università degli Studi di FIRENZE, Università del SALENTO, Università degli Studi di UDINE, Università degli Studi di PADOVA, Libera Università di BOLZANO, Università degli Studi di CATANIA, Università degli Studi di ROMA "La Sapienza", Università degli Studi della Campania "Luigi Vanvitelli", Università degli Studi di PALERMO, Politecnico di TORINO, Università Politecnica delle MARCHE, Università degli Studi di MODENA e REGGIO EMILIA, Università degli Studi di BOLOGNA, Istituto Italiano di Tecnologia (IIT) Consiglio Nazionale delle Ricerche (CNR) and Scuola Superiore Sant'Anna (^{oo})

### Curriculum: MOBILITY AND AUTONOMOUS VEHICLES (CODICE 9352)

Coordinator: Cannata Gior	gio	
Department of IT, Bioengineering, Robotics and Systems Engineering (Dipartimento di Informatica, bioingegneria,		
robotica e ingegneria dei sis		
Places: 3 – Grants: 3 (*)		
	funded by the associated parties; the annual gross amount of the grant, including social	
security expenses to be paid by the recipient, is € 16.500,00.		
(*) 1 grant funded within D.M. 351/2022, under condition to the approval of Ministerial funding; the annual gross		
amount of the grant, including social security expenses to be paid by the recipient, is €16.500,00.		
	ants fully funded by companies on behalf and associated parties; the annual gross a mount	
	lsecurity expenses to be paid by the recipient, is € 16.500,00	
	<b>QUALIFICATIONS/PUBLICATIONS AND INTERVIEW</b>	
procedure		
	<u>july 25th at 9:30</u>	
	Candidates are ranked separately for each research theme they applied.	
	Step 1 – Assessment of qualifications (maximum 60 points).	
	Candidates are ranked on the basis (not in order or relevance) of their student career,	
	Curriculum Vitae, motivation letter, qualified scientific and technical skills, endorsement letters.	
	Candidates are admitted to Step 2 if their score is greater than or equal to $40$ points.	
	<b>Step 2 – Oral examination</b> (maximum 60 points). The Candidates are expected to discuss about their qualifications and scientific and technical skills, and to show their motivation and attitude for scientific research. Then they are interviewed on the research theme(s) they have applied for (see below) receiving a specific score for each interview.	
	The oral examination for each research theme is passed if the score is greater than or equal to 40 points.	
	The final score is the sum of the scores in Step 1 and Step 2 (for each research theme the candidate applied to).	
Further information on	Candidates <u>must</u> :	
how to present		
qualifications/publications	<ul> <li>submit the complete list of all the exams sat during their Bachelor's and Master's degree and/or equivalents (BS, Master) specifying the average marks (GPA or equivalent indicator);</li> </ul>	
	<ul> <li>specify up to three research themes of their interest (see the research themes listed below and at <u>Admission – Drim – Irim (i-rim.it)</u>);</li> </ul>	
	<ul> <li>submit a motivation letter (Research project) related to one (or more) of the research themes selected; use the template available at: <u>Admission – Drim – Irim (i-rim.it)</u>;</li> </ul>	
	- submit a <b>Curriculum Vitae</b> including all the technical scientific studies/activities already done and pertinent to the doctoral program;	
	<ul> <li>submit up to 3 recommendation letters from university professors or recognized experts in the field supporting the candidate;</li> </ul>	
Research Themes	<ol> <li>Innovative solutions for electric vehicles and connected, cooperative and au to mated mobility – Politecnico Bari</li> </ol>	

	2. Perception and control in mobile intelligent robots – Univ Milano-Bicocca
	3. Control and Coordination of Mobile Etherogeneous Robots for Surveillance Operations – LEONARDO-Univ. Genova
	Trans a superior data superior and the superior data and
	For a complete description of the research themes proposed check: Admission – Drim – Irim (i-rim.it)
Information on references	
	The recommenders must be university professors or recognized experts in the field, and
	must upload the recommendation letters (specifying their name, role and affiliation),
	within the deadline of the public notice, to: <u>https://forms.gle/TT4UwLqrjf88Cban6</u>
Foreign Languages	English
Further Information	For more information about
	- the research themes please check the contact person indicated in the project themes description file available at:
	<u>Admission – Drim – Irim (i-rim.it)</u>
	- the doctorate rules and structure please check:
	<u>RULES – Drim – Irim (i-rim.it)</u> CURRICULA AND THEMES – Drim – Irim (i-rim.it)
	- for other enquiries contact the Doctorate Secretary:
	<u>phd_drim@unige.it</u>
	A step-by-step guideline for the application is available here:
	https://unige.it/sites/contenuti.unige.it/files/documents/Guida eng XXXVII.pdf
(°°) Information updated following re	quest dated 9.06.2022

²⁾ Information updated following request dated 9.06.2022