ANNEX A

SCIENTIFIC DISCIPLINARY AREA: MATHEMATICS AND INFORMATICS

RESEARCH PROGRAM NO. 1

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **14.00** in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **28.2.2019** at **17.30** in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

The interview will be held on **1.3.2019** at **11.00** in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Giuseppe Rosolini on the phone number +39 010 3536942 or via the email address: rosolini@unige.it

Scientific coordinator: Prof. Giuseppe ROSOLINI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Homotopy Type Theory and Effectiveness

Description: The project focusses on Homotopy Type Theory. The intention is to evaluate the computational content that the theory may express by describing models for HoTT built in models of constructive mathematics such as the effective topos, the quasitopos of equilogical spaces, and more generally categories which are quotient completions of hyperdoctrines. The possibilities of such models are manyfold, for instance on the one hand some would produce models of HoTT via realizability. On the other hand, some would be topological models comparable with known models of HoTT.

Scientific disciplinary sector: MAT/01 LOGICA MATEMATICA

Place: Dipartimento di Matematica (DIMA)

Required degree:
Dottorato di ricerca in matematica, Dottorato di ricerca in matematica e applicazioni,

Subjects of the interview:
Categorical Logic, Topos Theory.

RESEARCH PROGRAM NO. 2

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **11.00** in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **1.3.2019** at **13.00** in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

The interview will be held on **6.3.2019** at **11.00** in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Giovanni Alberti on the phone number +39 010 3536913 or via the email address: alberti@dima.unige.it

Scientific coordinator: Prof. Giovanni ALBERTI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23.250,00

Title: Infinite-dimensional inverse problems with finite measurements.

Description :Many imaging techniques, including electrical impedance tomography, elastography and ultrasonography, which are used in many contexts (medical imaging, nondestructive testing, geophysics, etc.), are modeled by inverse problems for PDE. Their analysis has now provided a deep understanding of their features. However, given the infinite-dimensionality of the problems, the recovery requires infinitely many measurements, which is never achievable in practice. The candidate will work on bridging this gap between theory and applications by combining methods of applied harmonic analysis, machine learning and PDE theory. We expect to obtain theoretical results with finite measurements under realistic assumptions on the unknowns (such as sparsity), and to derive related reconstruction algorithms

Scientific disciplinary sector: MAT/05 ANALISI MATEMATICA

Place: Dipartimento di Matematica (DIMA)

Required degree:
Dottorato di ricerca in Matematica, Fisica, Informatica.

Subjects of the interview:
PDE, inverse problems, compressed sensing, sparse regularisation theory, machine learning

The candidate will need to prove his/her knowledge of the English language.

RESEARCH PROGRAM NO. 3

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **9.00** in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **28.2.2019** at **12.00** in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

The interview will be held on **28.2.2019** at **14.00** in Dipartimento di Matematica (DIMA), Via Dodecaneso 35, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting via the email address: piana@dima.unige.it or sorrentino@dima.unige.it

Scientific coordinator: Prof. Michele PIANA

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23.250,00

Title: Computational methods for the analysis of electroencephalographic data measured by ALTEA

Description: The ALTEA experiment aims at understanding the interaction between cosmic radiation and astronauts' central nervous system, using measurements recorded onboard the International Space Station (ISS). The ALTEA instrument is a helmet that detects the transition of heavy particles, and simultaneously records the electroencephalographic signal of the astronaut. The ALTEA data include data registered onboard the ISS, characterized by very low signal-to-noise ratio and presence of artifacts, as well as control measurements recorded on earth.
The post-doc will make use of computational techniques, mostly related to inverse problems and machine learning, to characterize the impact of the cosmic radiation on the astronauts' cerebral activity.

Scientific disciplinary sector: MAT/08 ANALISI NUMERICA

Place: Dipartimento di Matematica (DIMA)

Required degree:
Dottorato di ricerca in Matematica, Matematica Applicata, Fisica, Ingegneria Biomedica

Subjects of the interview:
The interview will mainly assess the candidate's knowledge about inverse problems, clustering and machine learning, as well as their knowledge about magneto-/electro-encephalography.

RESEARCH PROGRAM NO. 4

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **8.00** in Dipartimento di informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via Opera Pia 13, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **28.2.2019** at **11.00** in Dipartimento di informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via Opera Pia 13, Genova.

The interview will be held on **28.2.2019** at **14.30** in Dipartimento di informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via Opera Pia 13, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Francesca ODONE

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Marker-less motion analysis

Description: Measuring and understanding human motion is crucial in several domains, ranging from neuroscience, to rehabilitation and sports biomechanics In the last decades this research field had made considerable progress and developed very precise systems, mosly based on the adoption of markers. Unfortunately, marker-based methods are slow and invasive. The goal of this project is to devise marker-less alternatives, based on the use of image sequence analysis with deep learning. The activity will start with an analysis of existing architectures, which we will use as a baseline, and continue with the design of more specific methods for multi-view gait analysis.

Scientific disciplinary sector: INF/01 INFORMATICA

Place: Dipartimento di informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS)

Required degree:
Laurea Magistrale delle classi LM-18 Informatica, LM-21 Ingegneria Biomedica

Subjects of the interview:
Motion analysis with application to rehab and neuroscience; marker-based methods for motion analysis, clinical experimental protocols in gait analysis, machine learning methods for high dimensional data (e.g., images and videos), deep learning approaches to motion analysis.

The candidate will need to prove his/her knowledge of the English language.

RESEARCH PROGRAM NO. 5

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **11.00** in Dipartimento di informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via Opera Pia 13, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **28.2.2019** at **14.00** Dipartimento di informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via Opera Pia 13, Genova.

The interview will be held on **5.3.2019** at **17.00** in Dipartimento di informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS), Via Opera Pia 13, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Lorenzo ROSASCO on the phone number +39 0103536607 or via the email address: lorenzo.rosasco@unige.it.

Scientific coordinator: Prof. Lorenzo ROSASCO

NO. 1 research fellowship - Duration 2 year – Annual pre-tax amount: € 27.133,00

Title: Machine learning approaches to signal representation and prediction for time series in energy trading**.**

Description: Extracting actionable information from massive amount of complex high dimensional data is a key problem in science and finance . The goal of this project is to develop sound machine learning algorithms that can provably tackle the challange of representing and predicting time series for energy trading. Specifically we will consider a multidisciplinary approach based on tools from computer science, signal processing and optimization to develop efficient and optimal learning techniques with computational requirements tailored to the information in the data. The goal is to derive results leading to better understanding of available techniques, but also to develop novel algorithmic solutions with improved statistical accuracy in predicting energy-market temporal evolution

Scientific disciplinary sector: INF/01 INFORMATICA

Place: Dipartimento di informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS)

Required degree:
Dottorato di ricerca in Ingegneria,matematica, Fisica, Informatica

Subjects of the interview: Machine leaning, optimization, time series.

RESEARCH PROGRAM NO. 6

The assessment criteria for the qualifications and the interview will be affixed on **1.3.2019** at **11.00** in Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Bacheca PT, Corso Europa 26, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **1.3.2019** at **16.00** in Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Bacheca PT, Corso Europa 26, Genova.

The interview will be held on **4.3.2019** at **9.00** in Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Corso Europa 26, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Antonino BRIGUGLIO *on the phone number +39 0103538289 or via the email address: antonino.briguglio@unige.it.*

Scientific coordinator: Prof. Antonino BRIGUGLIO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Curiosity Driven palaeoenvironmental reconstruction of Liguria. Describing the past as a tool to understand the present and Predict the Future

Description: This project is aimed to study, describe and depict to an unprecedentedly high level of accuracy the evolutionary palaeoenvironments of some parts of Liguria during the Meso- and the Cenozoic. The quality of the fossil records is in some parts so pristine and continuous that if the correct approach is used, a number of palaeogeographic maps of the regions could be created with an advanced level of detail including all those variations as time passed such as sea level fluctuations, ocean temperature, palaeo pH and salinity.

Scientific disciplinary sector: GEO/01 PALEONTOLOGIA E PALEOECOLOGIA

Place: Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV)

Required degree:
Dottorato di ricerca in Scienze della Terra

Subjects of the interview:
Palaeontology, Sedimentology, Stratigraphy, palaeoenvironmental reconstruction, statistics, regional geology.

The candidate will need to prove his/her knowledge of the English language.

RESEARCH PROGRAM NO. 7

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **9.30** in Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Corso Europa 26, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **28.2.2019** at **12.30** in Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Corso Europa 26, Genova.

The interview will be held on **28.2.2019** at **15.00** in Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV), Corso Europa 26, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Marco FERRARI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Erosive phenomena along coasts characterized by coastal defence structures: analysis, assessment, and alternatives.

Description: The coastal defence structures (e.g. groynes, detached breakwaters), coupled with beach nourishments, are the most commons measures adopted to contrast the beach erosion. However, in the case of design errors, negative effects could be occur.
In case of the negative effects the critical structures could be remove, but it is a potentially critical operation, and a careful evaluation is necessary to evaluate the environmental and economic sustainability of the technical intervention. The individuation of a methodology for the future scenarios assessment is the main target of this research project.
The research project will be subdivided in the three main part:

   I.   Characterization of the study areas.
   II. Application of the coastal modelling.
   III. Evaluation and analysis of the model results.

The researcher will have to contribute at the every project phases

Scientific disciplinary sector: GEO/04 GEOGRAFIA FISICA E GEOMORFOLOGIA

Place: Dipartimento di Scienze della Terra, dell'Ambiente e della Vita (DISTAV)

Required degree:
Laurea V.O. in Scienze Geologiche, Scienze Ambientali, Laurea Specialistica delle classi 82/S Scienze e Tecnologie per l'Ambiente e il Territorio, 85/S Scienze Geofisiche, 86/S Scienze Geologiche.
Laurea Magistrale delle classi LM-74 Scienze e Tecnologie Geologiche, LM–75 Scienze e Tecnologie per l'Ambiente e il Territorio , LM -79 Scienze Geofisiche

Subjects of the interview:
Coastal morphodynamic beach response (surveyed data and modelled data); Beach hydrodynamic features; Storm surge data analysis and coastal vulnerability management.

RESEARCH PROGRAM NO. 8

The assessment criteria for the qualifications and the interview will be affixed on **4.3.2019** at **8.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Largo Rosanna Benzi, 10, Genova
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The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **4.3.2019** at **11.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Largo Rosanna Benzi, 10, Genova

The interview will be held on **4.3.2019** at **14.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Largo Rosanna Benzi, 10, Genova
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Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Mario AMORE email address: mario.amore@unige.it

Scientific coordinator: Prof. Mario AMORE

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Lifestyle, physical health, and severe psychiatric disorders

Description: The life expectancy of subjects with schizophrenia, other psychotic disorders, bipolar disorder, major depression is reduced by 10-25 years (mainly due to the greater morbidity and mortality linked to physical comorbid ilnnesses) when compared to the general population. Generally, the inadequate dietary habits, poor exercise, cigarette, alcohol or substances abuse, dysregulation of the sleep-wake rhythm, poor adherence to treatment have been all identified as potentially relevant causes related to the poor outcome of these conditions. Based on the current literature, it is generally known that lifestyle modification may have attenuate the physical morbidity/mortality of people with severe psychiatric disorders. The present project is aimed to evaluate the effectiveness of an intervention based on psychoeducation, cognitive-behavioral strategies, and health coaching.

Scientific disciplinary sector: MED/25 PSICHIATRIA

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI)

Required degree:
Laurea Magistrale della classe LM-41 Medicina e chirurgia

Subjects of the interview:
Schizophrenia and other psychotic disorders; bipolar disorder; major depression; physical health; psichoeducation; cognitive-behavioral strategies; health coaching

The candidate will need to prove his/her knowledge of the English language.

RESEARCH PROGRAM NO. 9

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **9.00** in Dipartimento di Scienze della Salute (DISSAL), Via A. Pastore 1, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **28.2.2019** at **12.00** in Dipartimento di Scienze della Salute (DISSAL), Via A. Pastore 1, Genova.

The interview will be held on **28.2.2019** at **14.30** in Dipartimento di Scienze della Salute (DISSAL), Via A. Pastore 1, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Paolo DURANDO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Epidemiological survey about occupational injuries in the healthcare setting in order to improve training programs in health and safety at work toward students and postgraduates residents at the University of Genoa.

Description: The project aims to carry out an accurate epidemiological analysis of accidents occurred in the healthcare setting, conducted both at the national and international level, through a systematic review of the current literature, integrated with available data sources, for the correct sizing of its impact and identification of the main associated determinants.
To this end, students are enrolled in the three-year and Master's degree courses in the healthcare area and resident doctors at the School of Medical and Pharmaceutical Sciences of the University of Genoa, through the administration of a structured - validated questionnaire.

Scientific disciplinary sector: MED/44 MEDICINA DEL LAVORO

Place: Dipartimento di Scienze della Salute (DISSAL)

Required degree:
Laurea Magistrale della classe LM/SNT4 Scienze delle Professioni Sanitarie della Prevenzione

Subjects of the interview:
Work-related injury risk in the healthcare sector
Injuries with exposure to biological risk to blood-borne pathogens
Protective and preventive measures required for specific risks identified in the healthcare sector

RESEARCH PROGRAM NO. 10

The assessment criteria for the qualifications and the interview will be affixed on **4.3.2019** at **9.30** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Clinica Neurologica, Largo Paolo Daneo 3, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **4.3.2019** at **13.30** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Clinica Neurologica, Largo Paolo Daneo 3, Genova.

The interview will be held on **5.3.2019** at **12.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Clinica Neurologica, Largo Paolo Daneo 3, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Elisa PELOSIN

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Boosting the brain: effect of cortical stimulation protocol on motor performance under dual task condition in patients with Parkinson's disease.

Description: The present study aims to explore the effects of dorso-lateral-prefrontal cortex (dLPFC) neuromodulation via transcranial direct current stimulation (tDCS), on gait performance during dual-task condition in patients with Parkinson's disease. Evidence has been shown that the dual task higthens walking deficits and increases the risk of falls. Recent studies have also demonstrated that a single session of tDCS can improve walking speed and stride length in patient's with Parkinson's disease. This approach could potentially allow shorter training sessions with greater effectiveness. The challenge of rehabilitation is to create new interventions that are efficient and able to promote motor learning in order to prolong its effectiveness over time.

Scientific disciplinary sector: MED/48 SCIENZE INFERMIERISTICHE E TECNICHE NEURO-PSICHIATRICHE E RIABILITATIVE

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI)

Required degree:
Laurea Magistrale delle classi LM/SNT2 Scienze riabilitative delle professioni sanitarie, SNT/02/S Scienze delle professioni sanitarie della riabilitazione

Subjects of the interview:
Scientific evidence, guidelines and physical therapy approaches for patients with Parkinson's disease. Principles and techniques of non-invasive cortical neuromodulation. Motor and cognitive assessment tests. Principles of statistical analysis.

The candidate will need to prove his/her knowledge of the English language

RESEARCH PROGRAM NO. 11

The assessment criteria for the qualifications and the interview will be affixed on **5.3.2019** at **9.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Biblioteca, Largo Paolo Daneo 3 (ex via De Toni 5), Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **5.3.2019** at 1**2.00** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Biblioteca, Largo Paolo Daneo 3, (ex via De Toni 5), Genova.

The interview will be held on **5.3.2019** at **12.30** in Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Biblioteca, Largo Paolo Daneo 3 (ex via De Toni 5), Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Marco TESTA

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Design and clinical validation of a personalized treatment protocol in patients suffering from low back pain and neck pain.

Description: Low back pain and neck pain are very frequent musculoskeletal disorders, usually benign, that can evolve towards a condition of chronic pain with important consequences in terms of social and economic costs. The intervention proposed in the structures of the health system is based on a standard number of sessions, usually 10 distributed in two weeks, while an intervention aimed at self-empowerment of the patient with respect to the management of the disorder is not a consolidated practice in public facilities.
The aim of the project is to develop a multimodal intervention protocol (education, exercise and manual therapy) to be administered to a group of patients suffering from vertebral pain, evaluating the improvement of quality of life, the consumption of drugs and the reduction of treatment costs compared to the usual intervention.

Scientific disciplinary sector: MED/48 SCIENZE INFERMIERISTICHE E TECNICHE NEURO-PSICHIATRICHE E RIABILITATIVE

Place: Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI)

Required degree:
Dottorato di ricerca in Neuroscienze

Subjects of the interview:
Knowledge of epidemiology, classification and treatment of low back pain and neck pain and of the principles of therapeutic exercise required for the development of a personalized treatment plan on subjects with musculoskeletal disorders.

The candidate will need to prove his/her knowledge of the English language.

SCIENTIFIC DISCIPLINARY AREA: CIVIL ENGINEERING AND ARCHITECTURE

RESEARCH PROGRAM NO. 12

The assessment criteria for the qualifications and the interview will be affixed on **4.3.2019** at **12.00** in Dipartimento Architettura e Design (DAD), Stradone S. Agostino 37, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **4.3.2019** at **17.30** in Dipartimento Architettura e Design (DAD), Stradone S. Agostino 37, Genova.

The interview will be held on **5.3.2019** at **14.30** in Dipartimento Architettura e Design (DAD), Stradone S. Agostino 37, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Carmen ANDRIANI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Regeneration of cultural heritage systems along the Ligurian coast. Guidelines for reusing and developping the Fortezza del Priamar in Savona.

Description: The research is focused on the Ligurian boundaries between ports and cities and it aims to develop and define new strategies of analysis and intervention able to regenerate the historical and cultural heritage of the urban fabric.
The goals are: guidelines definition for reusing and developping internal and external spaces of the Fortezza del Priamar in Savona, mainly related to cultural and public services; in-depth analysis and resulting proposals for new uses of specific parts of the building; a study about developping new strategies for the external areas in order to regenerate the surrounding neighborhoods; a plan in phases of the research design solutions in order to request public and private funding.

Scientific disciplinary sector: ICAR/14 COMPOSIZIONE ARCHITETTONICA E URBANA

Place: Dipartimento Architettura e Design (DAD)

Required degree:
Dottorato di ricerca in Architettura

Subjects of the interview:
The interview will focus on the candidate previous experiences on both research and design practice, with a particular focus on the abandoned buildings along the coast and the public space design related to artistic production and to exhibition areas.

RESEARCH PROGRAM NO. 13

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **10.00** in Dipartimento Architettura e Design (DAD), Stradone S. Agostino 37, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **28.2.2019** at **13.00** Dipartimento Architettura e Design (DAD), Stradone S. Agostino 37, Genova.

The interview will be held on **28.2.2019** at **13.30** in Dipartimento Architettura e Design (DAD), Stradone S. Agostino 37, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof.ssa Silvia PERICU via the email address: pericu@arch.unige.it.

Scientific coordinator: Prof.ssa Silvia PERICU

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Responsible for the collection and filing of projects case studies for the production of research outputs aimed at the communication and cultural diffusion of the studies conducted within the European Creative EU project, CFC Creative Food Cycles, focused on the new recycling systems of agro-food and industrial waste".

Description: The project involves the identification of a responsible person who takes care of the collection of case studies and the production of research output aimed at communication and cultural diffusion of the studies conducted within the two-year Creative Europe research, CFC - Creative Food Cycles.
The candidate must have a good knowledge of the issues dealt within the Creative EU research, excellent knowledge of agri-food systems (production-disposal-recycling), new technologies applied to agro-urban production processes (bio materials and creative recycling) , as well as experience in organizing cultural events and workshops related to European projects. Considered the partnership with international research centers (LUH Hannover and IAAC Barcelona) a good knowledge of English and Spanish is required in order to coordinate the project and encourage collaborations.

Scientific disciplinary sector: ICAR/21 URBANISTICA

Place: Dipartimento Architettura e Design (DAD)

Required degree:
Laurea Magistrale delle classi: LM-4 Architettura e ingegneria edile-architettura.

Subjects of the interview:
Experiences developed in the organization of cultural events and workshops related to European projects, knowledge of agri-food systems (production-disposal-recycling) and new technologies applied to agro-urban production processes (bio-material and creative recycling).

The candidate will need to prove his/her knowledge of English and Spanish languages.

SCIENTIFIC DISCIPLINARY AREA: INDUSTRIAL AND INFORMATION ENGINEERING

RESEARCH PROGRAM NO. 14

The assessment criteria for the qualifications and the interview will be affixed on **5.3.2019** at **8.30** in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Via Opera Pia 15/a, Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **5.3.2019** at **11.30** in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Via Opera Pia 15/a, Genova.
.
The interview will be held on **5.3.2019** at **12.00** in Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME), Via Opera Pia 15/a, Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Matteo ZOPPI on the phone number +39 3204382160 or via the email address: Zoppi@dimec.unige.it

Scientific coordinator: Prof. Matteo ZOPPI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Development of a robot for load testing of dental implants

Description: The researcher will contribute to the construction of the prototype of a robotized system for load testing of dental implants and prostheses; the tests carried out by the system will comprise cyclic and fatigue with forces applied at any position and direction; the research work will comprise hardware and software integration, the definition of the method of operation of the system, tuning, programming and the support in the development of the tests.

Scientific disciplinary sector: ING-IND/13 MECCANICA APPLICATA ALLE MACCHINE

Place: Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti (DIME),

Required degree:
Laurea Magistrale delle classi LM-25 Ingegneria dell'automazione, LM-32 Ingegneria informatica, LM-33 Ingegneria meccanica

Subjects of the interview:
Variable stiffness actuation in robotics, fluidics, basics of dental implantology.

The candidate will need to prove his/her knowledge of English language.

RESEARCH PROGRAM NO. 15

The assessment criteria for the qualifications and the interview will be affixed on **5.3.2019** at **10.00** in Campus di Savona, Meeting Room, Palazzina Delfino, Via Magliotto 2, 17100 Savona.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **5.3.2019** at **13.00** in Campus di Savona, Meeting Room, Palazzina Delfino, Via Magliotto 2, 17100 Savona.

The interview will be held on **5.3.2019** at **15.00** in Campus di Savona, Meeting Room, Palazzina Delfino, Via Magliotto 2, 17100 Savona.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Stefano BRACCO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Methodologies and models for planning and management of e-mobility systems in smart cities

Description: Nowadays, in EU countries, the attention is more and more focused on the use of means of transport and distributed generation power plants characterized by a low environmental impact. In such a context, integrated systems composed of e-mobility, distributed generation and microgrids represent a valuable solution to plan and design smart cities. Within the project, the spread of e-mobility and distributed generation integrated systems will be analyzed and mathematical models will be developed in order to optimally design and manage the aforesaid infrastructures, with the aim of evaluating the role of e-mobility in smart cities. Different possible technical solutions will be proposed and the developed models will be applied to real test cases.

Scientific disciplinary sector: ING-IND/33 SISTEMI ELETTRICI PER L'ENERGIA

Place: Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN)

Required degree:
Laurea Magistrale della classe LM-30 Ingegneria energetica e nucleare

Subjects of the interview:
power systems, distributed generation, electric vehicles.

The candidate will need to prove his/her knowledge of English language.

RESEARCH PROGRAM NO. 16

The assessment criteria for the qualifications and the interview will be affixed on **6.3.2019** at **9.00** in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Opera Pia 11a, 16145 Genova.

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **6.3.2019** at **12.30** in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Opera Pia 11a, 16145 Genova.

The interview will be held on **6.3.2019** at **14.00** in Dipartimento di Ingegneria Navale, Elettrica, Elettronica e delle Telecomunicazioni (DITEN), Via Opera Pia 11a, 16145 Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Micaela LIBERTI on the phone number +390644585353 or via the email address: [micaela.liberti@uniroma1.it.](mailto:micaela.liberti@uniroma1.it) su utente skype: skymikpe

Scientific coordinator: Prof.ssa Micaela LIBERTI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Clinical treatment planning in electroporation applications from calculation of the E-field induced in a 3D domain

Description: The research activity concerns the development of in vitro in vivo devices suitable for obtaining electromagnetic stimulation of tumor lesions and the relative numerical and experimental dosimetry. In particular, the electroporation technique will be favored. Three phases are foreseen: Device development and design, experimental realization and verification and lastly in vitro and in vivo dosimetry.

Scientific disciplinary sector: ING-INF/02 CAMPI ELETTROMAGNETICI

Place: Centro interuniversitario sulle interazioni tra campi elettromagnetici e biosistemi (ICEmB)

Required degree:
Dottorato di ricerca in Ingegneria Elettronica, Ingegneria Biomedica

Subjects of the interview:
Development of exposure systems, numerical and experimental methods for electromagnetic dosimetry; electroporation mechanisms

RESEARCH PROGRAM NO. 17

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **10.00** in Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Laboratorio DSP**,** Via Opera Pia 13, Genova**.**

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **28.2.2019** at **14.00** in Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Laboratorio DSP**,** Via Opera Pia 13, Genova**.**

The interview will be held on **28.2.2019** at **15.00** in Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN), Laboratorio DSP**,** Via Opera Pia 13, Genova**.**

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Igor BISIO *on the phone number +39 010 3352803 o via e-mail all'indirizzo* igor.bisio@unige.it

Scientific coordinator: Prof. Igor BISIO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Study and Analysis of Methods and Systems for the Physical and Logical Tracking of Components and Equipment and for the Detection of Foreign Objects in Industrial Environment

Description: The activity will concern the study, analysis and development of context awareness solutions with particular emphasis to the study and analysis of methods and systems for the physical and logical tracking of components and equipment and for the detection of foreign objects in the environment industrial. The research will be conducted directly in the industrial environments of interest and will be carried out within a group and interacting with figures, at different levels, within this reference context for the research activity

Scientific disciplinary sector: ING-INF/03 TELECOMUNICAZIONI

Place: Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN)

Required degree:
Laurea V.O. in Ingegneria Elettronica, Ingegneria Informatica, Ingegneria delle Telecomunicazioni, Ingegneria Elettrica, Ingegneria Gestionale, Informatica, Fisica.
Laurea Specialistica delle classi 23/S (Scienze e Tecnologie Informatiche), 25/S (Scienze e Tecnologie Fisiche), 29/S (Ingegneria dell'Automazione), 30/S (Ingegneria delle Telecomunicazioni), 31/S (Ingegneria Elettrica), 32/S (Ingegneria Elettronica), 34/S (Ingegneria Gestionale), 35/S (Ingegneria Informatica)
Laurea Magistrale, delle classi LM-18 (Scienze e Tecnologie Informatiche), LM-25 (Ingegneria dell'Automazione), LM-26 (Ingegneria della Sicurezza), LM-27 (Ingegneria delle Telecomunicazioni), LM-28 (Ingegneria Elettrica), LM-29 (Ingegneria Elettronica), LM-30 (Ingegneria energetica e nucleare), LM-31 (Ingegneria Gestionale), LM-32 (Ingegneria Informatica).

Subjects of the interview: Signal Processing, Machine Learning, Context Awareness, Internet of Things, Localization and Tracking Methods and Algorithms

The candidate will need to prove his/her knowledge of the English language.

RESEARCH PROGRAM NO. 18

The assessment criteria for the qualifications and the interview will be affixed on **6.3.2019** at **9.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS) Via Opera Pia, 13 16145 Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **6.3.2019** at **12.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS) Via Opera Pia, 13 16145 Genova

The interview will be held on **6.3.2019** at **15.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS) Via Opera Pia, 13 16145 Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Roberto SACILE

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 27.133,00

Fund: UE Progetto PC Italia-Francia Marittimo 2014-2020"LOgistica e SicurEzza del trasporto merci – Progetto Multiazione sulla gestione merci pericolose in ingresso e uscita dai porti nell'area di cooperazione – LOSE+" – Asse 2 – Lotto 2 – Priorità di Investimento 5B.

Title: L*og*istica and *s*afety of freight *t*ransport - Multia*c*tion Project on the handl*ing of dangerous goods entering a*nd exiting ports in the area of cooperation.

Description: The research activity is included in the Interreg Italia Francia Marittimo LOSE + project. The project stems from multiple needs arising on the cross-border territories involved, such as:
a) implement appropriate ICT tools and systems for the control of goods flows that enable the activation of a continuous monitoring system at cross-border level;
b) define, on the basis of the emergency forecasting and management system, a codification of accidents occurring at sea near the coast and in the port area;
c) develop a training support system for the use of ICT in the management of risk and emergencies in the transport of dangerous goods.

Scientific disciplinary sector: ING-INF/04 AUTOMATICA

Place: Dipartimento interscuola di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS)

Required degree:
Laurea V.O. in Ingegneria Informatica, Ingegneria Biomedica, Ingegneria per l'Ambiente e il Territorio, Ingegneria Civile, Ingegneria Chimica.
Laurea Specialistica delle classi 35/S Ingegneria Informatica, 26/S Ingegneria Biomedica, 38/S Ingegneria per l'Ambiente e il Territorio, 28/S Ingegneria Civile, 29/S Ingegneria dell'automazione, 27/S Ingegneria Chimica.
Laurea Magistrale delle classi LM-32 Ingegneria Informatica, LM-25 Ingegneria dell'automazione, LM-21 Ingegneria Biomedica, LM-35 Ingegneria per l'Ambiente e il Territorio, LM-23 Ingegneria Civile, LM-24 Ingeneria dei sistemi edilizi, LM-26 Ingegneria della Sicurezza, LM-22 Ingegneria Chimica

Subjects of the interview: Topics of the interview: risk in the transport of dangerous goods, ICT tools for the monitoring of logistics and transport, general aspects concerning the definition of risk and the vulnerable environmental and social exposure, GIS environments oriented to risk assessment, creation of hazard maps , vulnerability and risk in GIS environments, with particular reference to ArcGIS and Geomedia, definition of decision support systems in risk assessment

RESEARCH PROGRAM NO. 19

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **10.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS) Via Opera Pia, 13 Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **28.2.2019** at **14.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS) Via Opera Pia, 13, Genova

The interview will be held on **28.2.2019** at **15.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS) Via Opera Pia, 13, Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Gabriele ARNULFO *on the phone number +39 010 3532789 o via e-mail all'indirizzo* gabriele.arnulfo@unige.it

Scientific coordinator: Prof. Gabriele ARNULFO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Electrophysiological correlates of aging in the human brain: a connectivity and complexity study exploiting invasive recordings in epileptic patients.

Description: The human brain is a complex system that continuously evolves across our entire life. Despite great effort in the scientific community, a model of the healthy aging is not yet available. In this project the candidate will exploit invasive recordings to improve our understanding of aging from an electrophysiological point of view. Thus this project will provide evidences of modifications in terms of functional and structural connectivity. These will be leveraged to define such a model of the healthy aging brain

Scientific disciplinary sector: ING-INF/06 BIOINGEGNERIA ELETTRONICA E INFORMATICA

Place: Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS)

Required degree:
Laurea Magistrale della classe LM-17 Fisica, LM-21 Ingegneria Biomedica, LM-40 Matematica

Subjects of the interview:
Discrete signal processing, EEG signal processing, object oriented programming

The candidate will need to prove his/her knowledge of the English language.

RESEARCH PROGRAM NO. 20

The assessment criteria for the qualifications and the interview will be affixed on **4.3.2019** at **10.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS) Via Opera Pia, 13 16145 Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **4.3.2019** at **14.30** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS) Via Opera Pia, 13 Genova

The interview will be held on **4.3.2019** at **15.00** in Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS) Via Opera Pia, 13 Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

As regards candidates, who are not resident or domiciled in Italy, and those, who are resident or habitually domiciled at a distance of more than 300 Km from the selection centre, the interview, if requested, can also be held by electronic means (SKYPE video conference call) promptly contacting Prof. Gabriele ARNULFO *on the phone number +39 010 3532789 o via e-mail all'indirizzo gabriele.arnulfo@unige.it*

Scientific coordinator: Prof. Gabriele ARNULFO

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23.250,00

Title: Electrophysiological correlates of drug-resistant focal epileptic patients in paediatric age

Description: The onsets of epilepsy in 80% of the cases is at paediatric age; on average, 25% of the patients are refractory to Anti-Epileptic Drugs. To treat these last cases, surgical ablation of the onset zone can be considered. The localization of this zone is usually performed with highly invasive intra-cerebral recordings. To prevent this, modern inversion techniques and non-invasive EEG recordings can be used. These techniques may require structural information, such as cortical segmentation and the characterization of white matter pathways. The successful candidate will study functional/structural connectivity and critical dynamics to help formalize forward/inverse solutions in HDEEG from focal epileptic patients. Implementation will be done with Python or Matlab, the most commonly used tools in neuroscience.

Scientific disciplinary sector: ING-INF/06 BIOINGEGNERIA ELETTRONICA E INFORMATICA

Place: Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi (DIBRIS)

Required degree:
Dottorato di ricerca in Ingegneria Biomedica, Fisica, Matematica

Subjects of the interview:
Segmentation and coregistration algorithms, Diffusion tensor imaging, structural and functional connectivity, graph theory, self-organized critical systems

The candidate will need to prove his/her knowledge of the English language.

RESEARCH PROGRAM NO. 21

The assessment criteria for the qualifications and the interview will be affixed on **5.3.2019** at **11.00** in Dipartimento di Scienze della formazione (DISFOR), Corso Podestà 2 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **5.3.2019** at **15.30** in Dipartimento di Scienze della formazione (DISFOR), Corso Podestà 2 – Genova

The interview will be held on **6.3.2019** at **12.30** in Dipartimento di Scienze della formazione (DISFOR), Corso Podestà 2 - Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Fabio CAFFARENA

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Cultural models and relations between Italy and the Americas in the 20th century.

Description: The research will deal with the processes of assimilation of migratory flows from Europe to the Americas in the twentieth century. The objectives of the project are to identify the mechanisms of communication and to highlight how the network of relationships during the migration process was created, preserving the identity and origin of immigrants, though admitting also the elements of American culture. For this purpose the forms of communication used by the protagonists of the migratory processes will be analysed, as well as the particular sources such as the epistolary and memorial writings. The project is closely linked to the activities of the Ligurian Archive of Popular Writing, DISFOR didactic laboratory and research centre that preserves and promotes the study of documents, archival materials, and records of ordinary people.

Scientific disciplinary sector: M-STO/04 STORIA CONTEMPORANEA

Place: Dipartimento di Scienze della formazione (DISFOR)

Required degree:
Dottorato di ricerca in Storia

Subjects of the interview:
The European historical migrations in the context of economic, social and cultural sphere of the Mediterranean, with particular reference to the Ligurian-Genoese area between the end of the nineteenth and twentieth century; Migratory processes between the Old and the New World. Written sources of the history of transoceanic migration.

RESEARCH PROGRAM NO. 22

The assessment criteria for the qualifications and the interview will be affixed on **9.4.2019** at **9.00** in Dipartimento di Antichità, filosofia e storia (DAFIST), Sezione di Filosofia, Via Balbi 4, II piano, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **9.4.2019** at **13.00** in Dipartimento di Antichità, filosofia e storia (DAFIST), Sezione di Filosofia, Via Balbi 4, II piano, Genova

The interview will be held on **9.4.2019** at **15.00** in Dipartimento di Antichità, filosofia e storia (DAFIST), Sezione di Filosofia, Via Balbi 4, II piano, Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa M. Cristina AMORETTI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Philosophical Issues in Behavioural Genetics
.
Description: A phenotypic trait is defined as an observable characteristic of an organism resulting from the interaction between its genotype and the environment. This definition seems to work well enough with basic examples like pea colour and metabolic aspects. But what about something as complex as human behaviour? The project will explore the notion of phenotype from a philosophical point of view and will highlight how different areas of biology define phenotypic traits differently as well as how, from those definitions, several conceptualisations of genetic causation follow. By accounting for methodological, epistemological, and ontological aspects as distinct from each other, the project will clarify how DNA can influence the organism from the molecular to the psychological level.

Scientific disciplinary sector: M-FIL/02 LOGICA E FILOSOFIA DELLA SCIENZA

Place: Dipartimento di Antichità, filosofia e storia (DAFIST)

Required degree:
Dottorato di ricerca in Filosofia

Subjects of the interview:
The main philosophical issues in the study of the genotype-phenotype relationship, with a special focus on human behavioural traits. Levels of explanation and levels of organisation in philosophy of the life sciences. The most important theories of causality in genetics and neurobiology

The candidate will need to prove his/her knowledge of the English language.

RESEARCH PROGRAM NO. 23

The assessment criteria for the qualifications and the interview will be affixed on **1.3.2019** at **8.00** in Dipartimento di Antichità, filosofia e storia (DAFIST), Sezione di Filosofia, Via Balbi 2, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **1.3.2019** at **11.00** in Dipartimento di Antichità, filosofia e storia (DAFIST), Sezione di Filosofia, Via Balbi 2, Genova

The interview will be held on **1.3.2019** at **12.00** in Dipartimento di Antichità, filosofia e storia (DAFIST), Sezione di Filosofia, Via Balbi 2, Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Franco MANTI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: The well - being in man - animals relationships. A systemic approach to the use of animals for scientific research and Animals Assisted Interventions (AAI)
.
Description: On the basis of the theoretical elaborations and of the national and international laws in force, the research intends to elaborate operative proposals concerning the well-being in the man-animals relationships through a systemic approach centered on the ethical dimension of these relationships with particular reference to experimentation and Animals Assisted Interventions (AAI). Fundamental objectives: the development of an ethical reference framework related to well - being in human - animal relationships; the study on a model of well-being calculation related to animal experimentation; the identification tools to measure the effectiveness of AAI; the development of an educational project on ethical competence aimed at those involved in using animals experimentation and in the AAI.

Scientific disciplinary sector: M-FIL/03 FILOSOFIA MORALE

Place: Dipartimento di Antichità, filosofia e storia (DAFIST)

Required degree:
Laurea V.O. in:Filosofia, Psicologia, Pedagogia, Laurea Specialistica, della classe:18/S Filosofia teoretica, morale, politica ed estetica, 17/S Filosofia e storia della scienza, 96/S Storia della filosofia, 58/S Psicologia ,65/S Scienze dell'educazione degli adulti e della formazione continua, 87/S Scienze Pedagogiche ,57/S Programmazione e gestione delle politiche e dei servizi sociali, 60/S Relazioni internazionali, Laurea Magistrale, LM-51 Psicologia, LM-52 Relazioni Internazionali, LM 57 Scienze dell'educazione degli adulti e della formazione continua, LM-78 Scienze Filosofiche, LM-85 Scienze Pedagogiche, LM-87 Servizio Sociale e Politiche Sociali

Subjects of the interview:
Elements of bioethics.
Ethics and deontology of health, social and educational professions
Ethics and deontology of scientific experimentation with particular reference to the use of animals
Alternative methods to experimentation with use of animals. Ethical implications
Ethics of organizations with particular reference to clinical governance
Ethics and deontology in the AAI
International, European and Italian legislation in the field of experimentation with the use of animals and alternative experimentations
Guidelines and Institutions, in an international context, related to experimentation with the use of animals, alternative experimentation and AAI

The theoretical foundations of the AAI, the AAI Guidelines of the Ministry of Health, regional legislation.
Elements of Antrozoology.
Elements of animal psychology and comparative psychology
Evaluation criteria and models of animal well-being in the experimentation, with particular reference to the role of the OPBAs and in the AAI
Evaluation criteria and models for experimentation using animals and alternative experimentation
The bio-psycho-social model, the functional diagnosis according to the ICF and its application within the AAI Criteria and models of clinical and pedagogical evaluation and of statistical analysis of the data related to the AAI

RESEARCH PROGRAM NO. 24

The assessment criteria for the qualifications and the interview will be affixed on **5.3.2019** at **9.00** in Dipartimento di Scienze della formazione (DISFOR), Corso Podestà 2 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **5.3.2019** at **13.00** in Dipartimento di Scienze della formazione (DISFOR), Corso Podestà 2 - Genova

The interview will be held on **5.3.2019** at **16.00** in Dipartimento di Scienze della formazione (DISFOR), Corso Podestà 2 - Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Antonella LOTTI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 23.250,00

Title: Study on Faculty Development and development of a University Teaching and Learning Center Model

Description: Study about Faculty development, or pedagogical training of university teachers, at international and national level in order to define the aims, approaches, practical applications and research in this area.
Study of the existing Teaching and Learning Center models in order to identify the roles, the organizational structures, the proposed services, the consultancy models, the research carried out in order to propose a model to be introduced in the Genoa university.
The main goals are to analyze perceptions, knowledge and behaviors changes of the teachers participating in the training activities currently proposed by the University of Genoa to strengthen the university teaching skills: seminars, workshops, practice communities, FOR.I.U. , individual advice.
The research methods envisaged are mixed methods (questionnaires, semi-structured interviews, field observations, systematic reviews, etc.).

Scientific disciplinary sector: M-PED/03 DIDATTICA E PEDAGOGIA SPECIALE

Place: Dipartimento di Scienze della formazione (DISFOR)

Required degree:
Laurea Magistrale della classe LM-85 Scienze Pedagogiche

Subjects of the interview:
Approaches to Faculty Development, educational planning and curriculum design, university teaching methods, teaching and learning center.

RESEARCH PROGRAM NO. 25

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **18.00** in Dipartimento di Scienze della formazione (DISFOR), Corso Podestà 2 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **1.3.2019** at **16.00** in Dipartimento di Scienze della formazione (DISFOR), Corso Podestà 2 - Genova

The interview will be held on **4.3.2019** at **16.30** in Dipartimento di Scienze della formazione (DISFOR), Corso Podestà 2 - Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Laura MIGLIORINI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Evaluation of a national program for the promotion of parenting skills in early childhood within the evidence-based prevention perspective

Description: The research project, within a multi-centric and longitudinal study, aims to evaluate a program for the promotion of a positive interaction between caregiver and child, in 0-6 range, inside an evidence-based prevention perspective. The research work, using a qualitative-quantitative methodology, aims to evaluate the effects of participation in a national program on parental competence. The training has been proposed in environments characterized by psychosocial risk conditions, migration and educational poverty. Dissemination of *evidence-based* programs to promote of parental competence is an innovative aspect in the psychological and social field for the prevention of child neglect. Evaluative practices for interventions validation also spread and become more complex in these area.

Scientific disciplinary sector: M-PSI/05 PSICOLOGIA SOCIALE

Place: Dipartimento di Scienze della formazione (DISFOR)

Required degree:
Dottorato di ricerca in migrazioni e processi interculturali

Subjects of the interview:
Self efficacy, Self perception of parental role, evidence-based prevention, evaluation tools in psychosocial context

RESEARCH PROGRAM NO. 26

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **17.00** in Dipartimento di Scienze della formazione (DISFOR), IV piano, Corso Podestà 2 - Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **1.3.2019** at **15.00** in Dipartimento di Scienze della formazione (DISFOR), IV piano, Corso Podestà 2 - Genova

The interview will be held on **4.3.2019** at **15.30** in Dipartimento di Scienze della formazione (DISFOR), IV piano, Corso Podestà 2 - Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Donatella CAVANNA

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Mentalization's capacity in scholar age: a clinical study

Description: Mentalization, a construct inserted within the attachment framework, constitutes one of the most used criteria to evaluate the mental health and the well-being in scholar age. The research project is aimed to investigate the clinical application of a measure of mentalization, the Reflective Function (RF), recently developed at international level and in progress of national validation. It will be applied to the narratives for children aged 8-12 years. The research project will include clinical populations with specific psychopathologies, and not yet investigated to RF. The project constitutes a multicenter study with Hospital Centers, with which have stable research collaborations.

Scientific disciplinary sector: M-PSI/07 PSICOLOGIA DINAMICA

Place: Dipartimento di Scienze della formazione (DISFOR)

Required degree:
Dottorato di ricerca in Psicologia, Antropologia e Scienze Cognitive

Subjects of the interview:
The interview will verify the candidate's competence on the use of a wide range of attachment tools based on narratives and the competence on scientific literature of reference; it will also occur the knowledge and contextual ability to measure reflective function on clinical interviews and their applications in the clinical context; it will verified the familiarity with the procedures for validating narrative tools.

SCIENTIFIC DISCIPLINARY AREA: LAW

RESEARCH PROGRAM NO. 27

The assessment criteria for the qualifications and the interview will be affixed on **28.2.2019** at **9.00** in Dipartimento di Giurisprudenza, Sezione di Diritto amministrativo, Via Balbi 22, piano 2 ammezzato Genova.
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The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **28.2.2019** at **12.30** in Dipartimento di Giurisprudenza, Sezione di Diritto amministrativo, Via Balbi 22, piano 2 ammezzato Genova.

The interview will be held on **28.2.2019** at **13.00** in Dipartimento di Giurisprudenza, Sezione di Diritto amministrativo, Via Balbi 22, piano 2 ammezzato Genova.

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Piera VIPIANA

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: The protection of business activity in the "centro storico" (old town), according to the dematerializing of cultural heritage interest and according to the administrative judgement's juridical protection

Description: The research project aims to study the protection and the development set of rules built by the national system regarding that kind of business and handmade activities existing in the traditional urban layout of the "centro storico" by ages.
The research main score is to check the urban planning, the cultural heritage law and the landscape law capability to stop the closing phenomenon of those traditional activities. The research will start studying the legislation and it will focus on the juridical protection (the administrative judgement one in particular), on the dematerializing of cultural heritage and on the urban areas competitiveness (smart cities topic).

Scientific disciplinary sector: IUS/10 DIRITTO AMMINISTRATIVO

Place: Dipartimento di Giurisprudenza

Required degree:
Laurea V.O. in Giurisprudenza
Laurea Specialistica della classe: 22/S Giurisprudenza
Laurea Magistrale delle classi: LMG/01 Giurisprudenza

Subjects of the interview:
The oral exam will concern the administrative procedure and some specific topics of administrative law according to the topic of the research grant, such as: safeguard of cultural heritage, concept of "centro storico" and its regulation, rudiments of urban planning, administrative justice.

RESEARCH PROGRAM NO. 28

The assessment criteria for the qualifications and the interview will be affixed on **1.3.2019** at **11.00** in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **1.3.2019** at **15.00** in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, Genova

The interview will be held on **4.3.2019** at **11.00** in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof. Luca GUZZETTI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Rhetorics of employability in the Life Long Learning framework.

Description: In neoliberal societies, the rhetorics of employability have been acquiring an increasing relevance. The spread of such discourses reaches the political agenda, shaping labour and youth policies which particularly affect the professional and life choices of young people in transition to adulthood. The research seeks to critically read these discourses, by contextualising them in the Life Long Learning domain, as policy-making scope where professional and personal empowerment aims are - not always evenly - integrated. With particular attention for the gender perspective, the research aims to explore the negotiation between the subjectivities and the policy objectives or, in a broader sense, between the individual biographies and the cultural and political frames where they unfold in.

Scientific disciplinary sector: SPS/08 SOCIOLOGIA DEI PROCESSI CULTURALI E COMUNICATIVI

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree:
Dottorato di ricerca in Sociologia

Subjects of the interview:
Discourse analysis; transition and biographical patterns; policy-analysis; life course research.

The candidate will need to prove his/her knowledge of the English language

RESEARCH PROGRAM NO. 29

The assessment criteria for the qualifications and the interview will be affixed on **1.3.2019** at **10.00** in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, Genova

The results of the qualification assessment as well as the names of the candidates admitted to the interview will be affixed on **1.3.2019** at **14.00** in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, Genova

The interview will be held on **4.3.2019** at **10.00** in Dipartimento di Scienze della Formazione (DISFOR), Corso Podestà 2, Genova

Such a notice is equivalent to notification to all intents and purposes. All the candidates, who have not received notification of their exclusion, must sit for the exam, without prior notice, at the examination centre.

Scientific coordinator: Prof.ssa Gabriella PETTI

NO. 1 research fellowship - Duration 1 year – Annual pre-tax amount: € 19.367,00

Title: Web radios as training and social communication tools. New models and trends

Description: The aim of the project is the experimentation of a hypermedial service for the University of Genoa through the creation of a research laboratory dedicated to the production and transmission of products and contents, with a high value from an information and social point of view . The research project will focus on the web radio, exploring its potential and studying new communication models. To this end, the research will make use of equipped laboratories at the University Campus of Savona and will directly involve the students of the three CDS there present (L-20, LM-80 and LM-92), since training objectives are closely linked to the project, whose aims are among others, supporting the teaching of CDS and strengthening their relationship with the territory.

Scientific disciplinary sector: SPS/08 SOCIOLOGIA DEI PROCESSI CULTURALI E COMUNICATIVI

Place: Dipartimento di Scienze della Formazione (DISFOR)

Required degree:
Dottorato di ricerca in Lingue, Culture e Tecnologie dell'Informazione e della Comunicazione

Subjects of the interview:
Techniques and methods for the production and delivery of radio programmes, Semantics of new media, Social Communication, Sociology of Communications and Deviance.

The candidate will need to prove his/her knowledge of the English language.