MARTINA GUASCO

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1. ACADEMIC EXPERIENCE

1.1 RESEARCHES

a.a PHD-CANDIDATE

 2024/
 2027 Architecture and Design – XL. Cod. 10458, 2024 – D.M. 630, 24/04/2024 Department of Architecture and Design of the University of Genoa UNIGE, Genoa, Italy – Schmidt Hammer Lassen Architects - SHL, Copenhagen (DK) Supervisors: Prof. Arch. Christiano Lepratti (Unige), Senior Associate – Head of Innovation . Enlai Hooi (SHL)
 Development of methods and lines of research for AI in the prediction of the adaptation of multi-storey buildings with skeleton structure

a.a **RESEARCH SCHOLAR**

2024/

2025 URBAN GENERATION - "A Design Approach for Climate Change Adaptation and Mitigation" - NextGeneration EU/PRIN 2022 projects of relevant national interest a.a 2023/2024.

Ecosystems research Group - Department of Architecture and Design, University of Genoa, Genoa, Italy

P.I. Prof. Katia Perini

Developing front-end tools for mitigation of urban heat island effect by the usage of Nature Based Solutions - Milestones 5/5, Sub-Responsible of computational workflow and group coordination. Investigator on methologies to address UHI and overheating phenomea in urban environment https://ecosystemics.eu/research/projects/urban-generation/

1.2 COLLABORATOR - Teaching methodologies

a.a THEMATIC EXPERT - COLLABORATOR 2023/ 2024 ARCHITECTURE STUDIO 2 - "Washing Machines" - ARCHITECTURAL II sem. COMPOSITION a.a 2023/2024, cod. 106512 Prof. Arch. Christiano Lepratti - Department of Architecture and Design, University of Genoa, Genoa, Italy The studio is run in collaboration with "HouseEurope!" - investigation on Italian bonuses - https://www.houseeurope.eu/

a.a UNIGE DAD COLLABORATOR - PROF KATIA PERINI

2023/

2024 Contract of self-employed person - collaborator

I sem. a.a 2023/2024 - Prof. Katia Perini

Department of Architecture and Design, University of Genoa, Genoa, Italy Development of teaching methods and tools carried out under the scientific responsibility of Prof. Katia Perini.

a.a STUDENTS TUTORING

2023/

2024 SUSTAINABILITY TECHNOLOGY - ARCHITECTURAL COMPOSITION
 I sem. a.a 2023/2024, cod. 106521 - Contract - Art. 33
 Prof. Katia Perini - Department of Architecture and Design, University of Genoa, Genoa, Italy

Supporting computational and dynamic analyses of Begato area to establish a new NBS residential building.

a.a STUDENTS TUTORING

2022/

2023 PROGETTAZIONE TECNOLOGICA DEL VERDE IN ARCHITETTURA -

II sem. a.a 2022/2023, cod. 84631.- Contract - Art. 33 Prof. Katia Perini - Department of Architecture and Design, University of Genoa, Genoa, Italy Supporting the students to develop a custom-made NBS construction system for green facade claddings.

a.a STUDENTS TUTORING

2021/

2022 LABORATORIO DI PROGETTAZIONE II B - RESIDENTIAL PARK - a.a 2021/2022, cod. II sem. 95256

Prof. Arch. Christiano Lepratti - Department of Architecture and Design, University of Genoa, Genoa, Italy

Supporting the students to develop a "reuse-project" based in Berlin. Conversion of a potential dismissed park house into a residential building.

a.a STUDENTS TUTORING

2020/

LABORATORIO DI PROEGETTAZIONE ARCHITETTONICA, URBANA E DEL
 II sem. PAESAGGIO - OASYS LAB - a.a 2020/2021 cod. 83881
 Prof. Arch. Christiano Lepratti - Department of Architecture and Design, University of Genoa, Italy.
 Supporting the students to develop a "desert city" based in the Douiret Desert by developing self-sufficient strategies for urban settlements

1.3 INVITED SPEAKER FOR ACADEMIC COURSES

"Bluff Bodies and Aerodynamic Applications - Presentation of Master Thesis"
Lecture for the course "PROGETTAZIONE TECNOLOGICA DEL VERDE IN ARCHITETTURA" - a.a 2022/2023, cod. 84631.
Prof. Katia Perini - Department of Architecture and Design, University of Genoa, Genoa, Italy
"Detailed Design of Suspended Facade - module: SKIN"
Lecture for the course "LABORATORIO DI PROGETTAZIONE II B - RESIDENTIAL PARK" - a.a 2021/2022, cod. 95256
Prof. Arch. Christiano Lepratti - Department of Architecture and Design, University of Genoa, Genoa, Italy
"Natural Cooling Systems in Traditional Iranian Architecture - Case study: Yazd"
Lecture for the course "LABORATORIO DI PROEGETTAZIONE ARCHITETTONICA, URBANA E DEL PAESAGGIO" - OASYS LAB - a.a 2020/2021 cod. 83881 Prof. Arch. Christiano Lepratti - Department of Architecture and Design, University of Genoa, Genoa, Italy

1.4 GUEST MEMBER

24th UNIGE member - LA BIENNALE DI VENEZIA 2023

November 2023

B+, S+, HOUSEEUROPE!

"A conversation on the speculative real estate market and screening of the short film The Demolition Drama, with economic and ecological models from the collaborative architecture studio B+ and the European citizens' initiative HouseEurope!"

Guest as UNIGE - DAD, Department of Architecture and Design member (ref. Prof. Arch. Christiano Lepratti) and member of HouseEurope! Genoa Team in charge of seeking collaboration in the Genoa environment (e.g. Unige DAD)

Italian Pavilion - "Mondo Novo" - Teatrino di Palazzo Grassi (San Marco 3260, VE) Organisers: Fosbury Architecture, Station plus ETH (Zuerich), B plus.XYZ (Berlin), HouseEurope! Event: <u>https://spaziale2023.it/eventi/economies</u>

November MSc STUDENT VISITOR - MASTER THESIS RESEARCH 2019

Student visitors at TU/E Eindhoven to develop CFD models for wind pedestrian comfort evaluation

Building Physics and Services, Department of the Built Environment, Eindhoven University of Technology, Eindhoven, the Netherlands. Chair: Prof. dr.ir. Bert Blocken, Building Physics and Services, Department of the Built Environment, Eindhoven University of Technology, Eindhoven, the Netherlands.

2. SOFTWARE

3. LANGUAGES

Revit Architecture, Autocad 2D, Photoshop, Illustrator, Sketchup, Adobe Premier, Allplan, Envimet, Indesign, Lumion, Rhinoceros, Grasshopper

English: C1 + RTF of IELTS Life Skill Tests for UK visa application

German: B1

Italian: mother-tongue

4. PUBLICATIONS

1.1 JOURNAL PAPER

Ricci A., Guasco M., Caboni F., Orlanno M., Repetto M.P., Giachetta A., 2022. *"Impact of surrounding environments and vegetation on wind comfort assessment of a new tower with a vertical green park."* Building and Environment 207, 108409. DOI: https://doi.org/10.1016/j.buildenv.2021.108409

1.2 CONFERENCE PAPER

Ricci A., Guasco M., Caboni F., Orlanno M., Repetto M.P., Giachetta A. "Wind comfort assessment of a newly designed tow-er with a vertical green park." ACWE 2022 –

14th

Americas Conference on Wind Engineering, National Wind Institute – Texas Tech University, Lubbock TX, USA, 17-19 May 2022. Conference website: <u>https://www.depts.ttu.edu/nwi/14ACWE/</u>

Caboni F., Guasco M., Orlanno M., Ricci A., Freda A., Repetto M.P., Giachetta A. *"Experimental and numerical analyses for the comfort optimisation of a newly designed tall building."* BBAA IX – The 9th International Colloquium on Bluff Body Aerodynamics and Applications, University of Birmingham, UK, 20-23 July 2020. Website:<u>https://www.birmingham.ac.uk/facilities/mds-cpd/conferences/bbaa-2020/index.aspx</u> -*CANCELLED DUE OF COVID PANDEMIC

Martina Guasco, Martina Orlanno, Chiara Piccardo, Andrea Giachetta, Ambrose Dodoo "Design optimisation of a building attached sunspace through experimental monitoring and dynamic modelling." NSB 2020 - 12th Nordic Symposium on Building Physics - Tallinn, Estonia, 6-9 September 2020

DOI: https://doi.org/10.1051/e3sconf/202017203010

5. GRANTS/AWARDS

November THE PLAN|Contract Vol.1 - Project Publication in Architectural Magazine 2020

The Vines: Design and Local Culture | Hembert Penaranda Officina Architetti Location: San Miguel de Allende, Mexico Client: Tamayo Desarrollos Architect: Hembert Penaranda - Officina Architetti Design Team: Hembert Penaranda, Fernando Arteaga, Andres Morales, Iria Avanzini, Olena Fedosenko, Sergii Borodenko, Martina Guasco, Luis Coral, Laura Botero Website: https://www.theplan.it/eng/contract/001/the-vines

Sept. 2014- IANUA - Grant for merit

Sept. 2017

IANUA - Institute of the Advanced Study of Genoa University Winner of IANUA scholarship merit grant - financial support - eq. 9.000 euro

November "La casa sull'acqua"

2016

Transformation of existing floating terraces in Genoa Port into precast house modules- 1st Classified, *Team: Martina Guasco, Luca Viglierchio, Ayla Schiappacasse* UNIGE - DAD, Department of Architecture and Design, Fondazione Promozione Acciaio, Cogi Srl

6. COMMUNITY BUILDING

2023-ongoing HouseEurope! - EUROPEAN CITIZENS' INITIATIVE (ECI)

Genoa-based member

"HouseEurope is an EU citizens' initiative for an EU legislation that boosts the renovation of existing buildings and stops their demolition driven by speculation."

Program launched by B.plus.xyz (Berlin, DE), Station + (ETH Zuerich, CH), Initiators:

	Arno Brandlhuber, Olaf Grawert - <u>https://www.houseeurope.eu/</u>
	• Community builder responsible for fostering collaboration between administration and academic partners and the HouseEurope! network
	• Initiated and finalized an academic partnership between UNIGE-DAD and HouseEurope! in March 2024. Scientific Responsible: Prof. Arch. Christiano Lepratti - UNIGE DAD
	• Thematic expert and content coordinator of ARCHITECTURE STUDIO 2 - "Washing Machines" a.y. 23/24 - in collaboration with HouseEurope! Topics include Italian legislation on Social Housing, Italian Bonuses, and Adaptation Solutions.
	 Responsible coordinator for dissemination events: "Learning From Italy, Arno Brandlhuber, Giacomo Ardesio", UNIGE DAD- Fondazione degli Architetti di Genova, HouseEurope! Genoa, Italy, 07/06/2024
2017	ISA IANUA STUDENTS ASSOCIATION
	Founder member Students and Alumni Association of IANUA - Institute of Advanced Study of University of Genoa.
	<i>"IANUA is a multidisciplinary community where you can grow, live and dedicate yourself to building your future. We promote the publication and dissemination of members' intellectual work.</i>
	We organise informative and educational events for members and the general public. We deal with issues concerning work, the university and the future. We promote the image and professional careers of members and other deserving people."
	https://www.isaianua.it/
7. EDUCATIC	N
Sept. 2017- April 2020	MASTER'S DEGREE IN ARCHITECTURE
	University of Genoa, Department of Architecture and Design Mark: 110/110 with honours
	Master's Thesis: "Experimental and numerical analyses for the comfort optimisation of a newly designed tall building"
	Supervisors:
	 Prof. A. Giachetta - Department of Architecture and Design, University of Genoa, Italy A. Ricci - Building Physics and Services, Department of the Built Environment, Eindhoven University of Technology, Eindhoven, the Netherlands.

	 Prof. M. P. Repetto - Department of Civil, Chemical and Environmental Engineering, University of Genoa, Genoa, Italy Arch. Hembert Penaranda - Officina Architetti Arch. Iria Avanzini - Officina Architetti Ing. A. Freda - Department of Civil, Chemical and Environmental Engineering, University of Genoa, Genoa, Italy D. Burlando - Department of Civil, Chemical and Environmental Engineering, University of Genoa, Genoa, Italy
Sept. 2014- December 2017	BACHELOR'S DEGREE IN ARCHITECTURE University of Genoa, Department of Architecture and Design Mark: 110/110 with honours Bachelor's degree: "Performance of Solar Passive Heating Systems: Simulations with VIP-Energy Software" Supervisors:
	 Prof. Andrea Giachetta - Department of Architecture and Design, University of Genoa, Italy Arch. PhD. Chiara Piccardo - Department of Architecture and Design, University of Genoa, Italy Prof. Ambrose Dodoo - Department of Built Environment and Energy Technology, Linnaeus University, Sweden
Sept. 2014- Sept. 2017	 HIGHER EDUCATION - IANUA Institute for Advanced Study of the University of Genoa STS - Science and Technologies for Sustainability 1st. Level Diploma STS "develops conceptual approaches, awareness and culture on the topic of transition towards a different model of sustainable development across social, environmental, industrial and economic dimensions. Through a multidisciplinary approach designed and implemented in cooperation with organisations and enterprises, it stimulates the ability to collect and contextualise international principles, methods and guidelines in local and national contexts." Topics: Sustainable design: definition, critics of sustainable design. Multidisciplinary approach. Coastline sustainable management: monitoring, safety, rules. Biorefinery: Food, packaging, pharma products quality assurance. Maritime Sustainability: resources, technologies, rules. Dott. Riccardo Casale: Nuclear Legacy & Sustainable Development: decommissioning and radioactive waste management. Supervisors: Franco La Cecla, ARUP, ARPAL, DeFENS, ABS, Lloyd's, M. Barolo
	Supervisors: Franco La Cecia, ARUP, ARPAL, DEFENS, ABS, Lloyd's, M. Barolo Chairman of Engineering UNIPD, POLIMI, Regione Liguria

https://ianua.unige.it/

8. WORK EXPERIENCE AS AN ARCHITECT

November 2022- Decembre 2023	ARCHITECT
	CALIGO DESIGN STUDIO - Margherita del Grosso, Matteo Orlandi Genoa, Italy
	• Project-responsible and detailed architect
	Scale: 700 mq up to 15.000 mq, building adaptation (logistics, factories, cultural centres).
	Phases: concept, preliminary, final, detailed design and construction documents. eq. to: HOAI Leistugsphasen 1-2-3-4-5-6-7-8-9
January 2021- Ongoing	FREELANCE ARCHITECT - INDEPENDENT ARCHITECTURE PRACTICE
	Martina Guasco Genoa, Italy
	Licencend Architect - Ordine degli Architetti Pianificatori Paesaggisti e Conservatori della Provincia di Genova - N° 4773 Phases: concept, preliminary, final, detailed design and construction documents (commercial/retail/external collaborator) eq. to: HOAI Leistugsphasen 1-2-3-4-5-6-7-8-9 Online portfolio: <u>https://mala-chite.com/</u>
June 2021- Sept. 2022	ARCHITECT
	Büro 213 - Architekten Berlin, Germany
	• Project responsible/team coordinator and detail architect for wood construction
	Holzbau für Wohnungsbau: Neubau/Erweiterung/Umbau/Dachaufstockung Phases: concept, preliminary, final and detailed design eq. to: HOAI Leistugsphasen 1-2-3-4-5
June 2020- June 2021	ARCHITECT - OFFICE MANAGER - PERSONAL ASSISTANT OF THE CHIEF ARCHITECT
	Hembert Penaranda - Officina Architetti Genoa, Italy
	 Project-responsible and detailed architect Office administration responsible for Officina Architetti SRL (cashflow and office sensible data Genoa/Milan) Administration documents responsible for competitions and construction phases (Italy)

Mixed-use buildings, towers, villas, sports amenities, masterplan and urban design-(CAD-BIM Revit, from 1000 sqm to 40.000 sqm) - Colombia and Italy Phases: concept, preliminary, final and detailed design eq. to: HOAI Leistugsphasen 1-2-3-4-5-6-7-8-9

2016-2019 **JUNIOR ARCHITECT**

- Studio di Architettura ed Ingegneria Gnudi May 2019 - October 2019, Genoa, Italy
- Hembert Penaranda Officina Architetti January 2018- January 2019, Genoa, Italy
- MOA Matteo Orlandi Architetto January 2016-Sept. 2017, Genoa, Italy

9. SELECTED PROJECTS AS FREELANCE ARCHITECT

MOTOR VILLAGE - GROSIO CENTRE

Mixed-use building Factory refurbishment - ex-Motor Village Milan - Italy Area: 40.000 sqm Role: architect at Officina Architetti (team member) Phases: preliminary and final design - eq. to Leistungsphasen 3-4 (HOAI)

EX CINEMA NAZIONALE

Theater-Cultural Centre Genoa, Italy Area: 1200 sqm Role: Project Architect at CALIGO Phases: feasibility design - eq. to Leistungsphasen 1-2-3 (HOAI)

DACHAUFSTOCKUNG - Jablonskistr.

Holzbau - Dachaufstockung, Erweiterung, Landschaftplanung Berlin, Germany Role: Architect and team coordinator at Büro 213 Phase: detailed design - eq. to Leistungsphasen 5 (HOAI)

STADIO FLAMINIO competition

Rome, Italy Role: Architect and administration manager at Officina Architetti Phases: competition - Phase 1

STADIO LUIGI FERRARIS - Marassi

Genoa CFC - Calcio Genoa, Italy Role: architect at Officina Architetti (team member), client communication responsible Phases: preliminary design - eq. to Leistungsphasen 1-2-3 (HOAI)

ASTER - STRATEGIC PLANNING

Factories and services allocations Genoa, Italy Area: 15.000 sqm Role: architect at CALIGO Phases: preliminary - eq. to Leistungsphasen 1-2 (HOAI)

UMBAU UND ANBAU - Wohnhaus am Esenpfhul

Holzbau - Anbau, Umbau Berlin, Germany Role: Architect and team coordinator at Büro 213 Phase: detailed design - eq. to Leistungsphase 5 (HOAI)

KRAKOW AM SEE

Holzbau, Neubau, Landschaftplanung Krakow am See - Germany Area: 10.000 sqm Role: Architect and Design Coordinator at Büro 213 Phases: concept design, eq. to Leistungsphase 1 (HOAI)

IBM TOWER

Colombia Role: architectural designer at Officina Architetti Phase: concept - eq. to Leistungsphasen 1-2(HOAI)

THE VINES- CHATWAL HOTEL

San Miguel de Allende - Mexico Role: architectural designer at Officina Architetti (Team member) Phases: preliminary and final design eq. to Leistungsphasen 2-3-4 (HOAI)

WATERFRONT DI LEVANTE - WATERWAY

Detailed design for waterways and piers Genoa - Italy Role: architectural designer at Studio Gnudi Phase: detailed design - eq. to Leistungsphase 5 (HOAI)

91-15 - Mixed-use tower

Facade design - High Rise building Bogotá - Colombia Role: architect at Officina Architetti (Team member) Phases: preliminary and final design - eq. to Leistungsphasen 2-3-4 (HOAI)

PARCO DEL PONTE

Genoa, Italy Role: architectural designer at Studio Gnudi, p.p.: Topotek, Labics Phases: competition - Phase 1

RIVANA- Business Park

Mixed-use towers/headquarter Mellin- Colombia Role: architectural designer at Officina Architetti (team member) Phase: final design - eq. to Leistungsphase 4 (HOAI)