

# MARTINA GUASCO

Martina Guasco is a licenced Italian architect who has worked internationally across Europe, chiefly between Italy and Germany.

Her international architectural experience has grown with the development of small-scale projects, large-scale projects, high-rise buildings and masterplans, through the use of different materials, construction systems and different programs of construction laws: mainly Italian and German systems (HOAI).

She is the author of urban and building physics research applied to aerodynamics, thermodynamics and fluid dynamics in architecture.

## WORK EXPERIENCE

Ongoing-2022

### **ARCHITECT**

CALIGO DESIGN STUDIO - Margherita del Grosso, Matteo Orlandi  
Genoa, Italy

- Project-responsible and detailed architect

Feasibilities and strategic planning for factories allocations, new constructions and cultural buildings.  
Documents and cost estimations for public administration permissions.

Scale: 700 mq up to 15.000 mq

Phases: concept, preliminary, final, detailed design and construction documents.  
eq. to: HOAI Leistungsphasen 1-2-3-4-5-6-7-8-9

Ongoing-2021

### **FREELANCE ARCHITECT - INDEPENDENT ARCHITECTURE PRACTICE**

Martina Guasco  
Genoa, Italy

Licenced Architect - Ordine degli Architetti Pianificatori Paesaggisti e Conservatori della Provincia di Genova - N° 4773

Phases: concept, preliminary, final, detailed design and construction documents.  
eq. to: HOAI Leistungsphasen 1-2-3-4-5-6-7-8-9

2022-2021

**ARCHITECT**

Büro 213 - Architekten  
Berlin, Germany

- Project responsible/team coordinator and detail architect.

Wood construction for residential buildings- extensions, new construction design and landscape design.

Holzbau für Wohnungsbau: Neubau/Erweiterung/Umbau/Dachaufstockung

Phases: concept, preliminary, final and detailed design

eq. to: HOAI Leistungsphasen 1-2-3-4-5

2021-2020

**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 Leistungsphasen 1-2-3-4-5-6-7-8-9

2016 - 2019

**JUNIOR ARCHITECT**

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

# SELECTED PROJECTS

## 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)

## 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)

## STADIO FLAMINIO competition

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

## 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)

## 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)

## 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)

Complete list available: <https://mala-chite.com/project-list>

## ACADEMIC EXPERIENCES

- 2022-2023      STUDENTS TUTORING  
DESIGN SOLUTIONS for GREEN TECHNOLOGIES - a.a 2022/2023 - Prof. Katia Perini - Department of Architecture and Design, University of Genoa, Genoa, Italy
- 2022-2021      STUDENTS TUTORING  
RESIDENTIAL PARK - a.a 2021/2022 - Prof. Arch. Christiano Lepratti - Department of Architecture and Design, University of Genoa, Genoa, Italy
- 2021-2022      STUDENTS TUTORING  
OASYS LAB - a.a 2020/2021 - Prof. Arch. Christiano Lepratti - Department of Architecture and Design, University of Genoa, Genoa, Italy
- 2019            MSc Student VISITOR - MASTER THESIS RESEARCH  
Building Physics and Services, Department of the Built Environment, Eindhoven University of Technology, Eindhoven, the Netherlands.
- 2017            FOUNDER MEMBER  
IANUA - Students and Alumni Association  
Students and Alumni Association of Institute for Advanced Study of Genoa University

## LECTURES

- May 2023      AERODYNAMIC APPLICATIONS ON BLUFF BODIES  
University of Genoa, Department of Architecture and Design, Genoa, Italy  
PROGETTAZIONE TECNOLOGICA DEL VERDE - a.a 2022/2023 - Prof. Katia Perini
- April 2022      SUSPENDED FACADE - DETAILED DESIGN  
University of Genoa, Department of Architecture and Design, Genoa, Italy  
RESIDENTIAL PARK - a.a 2021/2022 - Prof. Arch. Christiano Lepratti
- April 2021      YAZD - NATURAL COOLING SYSTEMS  
University of Genoa, Department of Architecture and Design  
Genoa, Italy  
OASYS LAB - a.a 2020/2021 - Prof. Arch. Christiano Lepratti

# PUBLICATIONS

## PUBLICATION – 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>

## PUBLICATIONS – CONFERENCE PAPER

Ricci A., Guasco M., Caboni F., Orlanno M., Repetto M.P., Giachetta A.

*“Wind comfort assessment of a newly designed tower 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.

DOI: <https://www.depts.ttu.edu/nwi/14ACWE/>

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 new designed tall building.”*

BBAA IX – The 9th International Colloquium on Bluff Body Aerodynamics and Applications, University of Birmingham, UK, 20–23 July 2020.

DOI: <https://en.cstam.org.cn/afmc/?p=171> – \*CANCELLED DUE OF COVID PANDEMIC

Martina Guasco, Martina Orlanno, Chiara Piccardo, Andrea Giachetta, Ambrose Dadoo

*“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: [http://doi.org/10.1051/e3sconf/20201720\\_010](http://doi.org/10.1051/e3sconf/20201720_010)

# EDUCATION

2020–2017

## 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 new designed tall building"

Thesis' issues: architectural design, climatological analyses, statistical analyses, wind tunnel tests, computational fluid dynamic analyses CFD.

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

2017–2014

## 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, 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

2017–2014

## HIGHER EDUCATION - IANUA

Institute for Advanced Study of Genoa University

1st. Level Diploma

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 Chairman of Engineering UNIPD, POLIMI, Regione Liguria

## SOFTWARES

Allplan

Revit architecture

Rhinoceros

Autocad 2D

Photoshop

Illustrator

Indesign

Lumion

Sketchup

Revit structure

ANSYS FLUENT- (Post P.) CFD Post

Adobe Premier

## LANGUAGES

Italian: mother-tongue

English: C1

German: B1