



Katia Perini

Fixed-term assistant professor

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Education and training

2012

Ph.D in Architecture - European Ph.D Label

The integration of vegetation in architecture. Innovative methods and tools
- Eccellente

University of Genoa - Genoa - IT

2008

Master's degree in Architecture

Green as architectural component - 110/110 cum laude

University of Genoa - GENOVA - IT

2010

Qualifying Professional Examination for Architecture

University of Genoa - GENOVA - IT

Academic experience

2013 - 2019

Post-doctoral fellow

University of Genoa - Genoa - IT

2014 - 2019

Adjunct Professor

University of Genoa - GENOVA - IT

Adjunct Professor for Progettazione tecnologica per ambiente (Technology design for the environment)

2016

Visiting Scholar as DAAD Grantee

Technische Universität München - Munich - DE

2013

Visiting Scholar as Fulbright Schuman Grantee

Columbia University - New York City - US

2010 - 2011

Guest researcher

Delft University of Technology - Delft - NL

2019 - ONGOING

Assistant Professor

Università di Genova - Genova - IT

Work experience

2008 - 2009

Architect co-worker

AIACE srl - Milan - IT

Working on architectural and research projects in the field of technological innovation and sustainability design (from preliminary design to detailed design) of school residential office etc. buildings characterized by the use of sustainable innovative systems.

2009 - 2013

Founder and Designer

SPLACE - GENOVA - IT

Language skills

English

Proficient

Spanish

Proficient

Italian

Mother tongue

Teaching activity

Academic year 2021-2022: Professor of **“Progettazione tecnologica per l’ambiente”** (Technology design for the environment). Università degli Studi di Genova, Dipartimento Architettura e Design

Academic year 2020-2021: Professor of **“Progettazione tecnologica per l’ambiente”** (Technology design for the environment) and of 'Laboratorio di tecnologia' (Technology design studio). Università degli Studi di Genova, Dipartimento Architettura e Design

Academic year 2019-2020: Professor of **“Progettazione tecnologica per l’ambiente”** (Technology design for the environment). Università degli Studi di Genova, Dipartimento Architettura e Design

Academic year 2018-2019, 2017-2018: Adjunct Professor of **“Progettazione tecnologica per l’ambiente”** (Technology design for the environment). Università degli Studi di Genova, Dipartimento Architettura e Design

Academic year 2017-2018: Adjunct Professor of **“Urban Environment Design Studio”**. With: Richard Plunz (Columbia University, Adriano Magliocco and Paola Sabbion). Università degli Studi di Genova, Dipartimento Architettura e Design

Academic year 2016-2017, 2015-2016, 2014-2015: Adjunct Professor of **“Progettazione tecnologica del verde in architettura”** (Technology design for the integration of vegetation in architecture). Università degli Studi di Genova, Dipartimento Architettura e Design

Invited lectures and seminars

November 2017: **Invited guest lecture: “Nature based adaptation strategies**

for urban resilience". ClimaLab 0250 - Chair of Building Technology and Climate Responsive Design. Technische Universität München.

May 2016: **Visiting Professor at Universitat de Lleida (Spain)**.

April 2016: **Invited guest lecture: "Nature based solutions for urban areas"**. Climate Responsive Design, Faculty of Architecture. Prof Thomas Auer Technische Universität München (Munich).

October 2015: **Critic for PhD students "Open Tables" – PhD school Architecture and Design**. Università degli Studi di Genova, Dipartimento di Scienze per l'Architettura

October 2015: **Seminar entitled: "Research management: methods and tools" – PhD school Architecture and Design**. Università degli Studi di Genova, Dipartimento di Scienze per l'Architettura

October 2013: **Invited guest lecture: "Vertical greening systems: a sustainable design practice for urban areas"**. Lehigh University, Bethlehem, Pennsylvania (U.S.A)

November 2013: **Invited guest lecture: "Greening the building envelope: Green facades and living wall systems for sustainable urban areas"**. Illinois Institute of Technology, Chicago (U.S.A)

October 2013/December 2013: **Guest critic for the mid-term and the final review of the Urban Ecology Studio**. Graduate School of Architecture Planning and Preservation – Prof. Richard Plunz and Patricia Culligan. Columbia University, New York City (U.S.A)

Postgraduate research and teaching activity

Supervision of PhD students, residents and post-doctoral fellows

November 2021/present - Supervisor of PhD thesis of Francesca Mosca, within the PhD in Architecture and Design. Università degli Studi di Genova – DAD

December 2016 - **Member of PhD committee** for the thesis "Thermal effect of vertical vegetation on low-rise building in moderate to hot climates"

Candidate Jamil Binabid. Illinois Institute of Technology, Chicago, USA

December 2016 - **Chair of the PhD committee** for the thesis "Green roofs and vertical greenery systems as passive tools for energy efficiency in buildings"

Candidate: Julià Coma Arpòn, Supervisors: Dr. Luisa F. Cabeza Fabra – Dr. Gabriel Pérez Luque. Universitat del Lleida, Department Science and Engeneering

PhD committees membership

Member of Accademic Board (Collegio di Dottorato), PhD in Architecture and Design. Università degli Studi di Genova – DAD

Research interests

Main research interests: effects and performances of nature based solutions in the field of environmental and economic sustainability in (of) urban areas and building/urban design.

Grants

2020 - ONGOING

Tools governance and teaching for the climate change adaptation strategy for sustainable development

Ministry for Environment Land and Sea Protection of Italy - IT
Principal investigator

2020 - 2021

Light envelope system with mosses for buildings

LINKS LIFTT and Compagnia di San Paolo - IT
Principal investigator

2020 - ONGOING

Monitoring activity and coordination for UNALAB Pilot Project Nature-based Solutions for ex Caserma Gavoglio

Municipality of Genoa - European Commission - IT
Principal investigator

Monitoring activity and coordination for UNALAB Pilot Project, Nature-based Solutions for ex Caserma Gavoglio, within HORIZON 2020 - SCC-02-2016-2017

2020 - ONGOING

Adaptation and mitigation to climate change urban actions promoting health

CCM - Italian national center for diseases control and prevention - IT
Participant

2017 - 2020

PROTERINA-3Évolution

Città Metropolitana di Genova - European Regional Development Fund PO - IT

Participant

Research activity on green infrastructure and design/monitoring of a rain garden.

2021 - ONGOING

ECOLOPES - ECOlogical building enveLOPES a game-changing design approach for regenerating urban ecosystems

European Commission

H2020 FET OPEN grant agreement number 964414 - Principal investigator

In ECOLOPES we propose a radical change for city development: instead of minimizing the negative impact of urbanisation on nature, we aim at urbanisation to be planned and designed such that nature – including humans – can co-evolve within the city. We envisage a radically new integrated ecosystem approach to architecture that focuses equally on humans, plants, animals, and associated organisms such as microbiota. ECOLOPES will provide the technology that will help to achieve this vision.

Partners: Technical University of Munich, Vienna University of Technology, University of Genoa, Technion – Israel Institute of Technology, Studio Animal-Aided Design, McNeel Europe

Editorial activity

Scientific committee member of the series “Pericorsi di Architettura”
Genova University Press (GUP) editor.

Reviewer for the Journals:

Applied Energy (ELSEVIER)

Building and Environment (ELSEVIER)

Building Research & Information (Taylor and Francis)

Elsevier S&T Books

Energy Efficiency (SPRINGER)

Energy (ELSEVIER)

Energy and Buildings (ELSEVIER)

Environmental Engineering and Management Journal (Technical University of Iasi, Romania)

Frontiers of Architectural Research (Higher Education Press. Production and Hosting by Elsevier)

Journal of Cleaner Production (ELSEVIER)

Journal of Earthquake Engineering (Taylor and Francis)

Journal of Urban Technology (Taylor and Francis)

Landscape and Urban Planning (ELSEVIER)

Sustainability (MDPI)

Sustainable Cities and Society (ELSEVIER)

Urban Climate (ELSEVIER)

Assignments abroad

January/February 2017: **Visiting Scholar at Technische Universität**

München. Chair of Building Technology and Climate Responsive Design

March/April 2016: **Visiting Scholar as DAAD Grantee.** Technische Universität

München Chair of Building Technology and Climate Responsive

Design. Project title: Climate landscape. A new approach to urban design

and landscape architecture. *With a research project regarding strategies for landscape architecture and urban design for climate and environmental control in dense urban areas, exploiting the integration of natural elements and forecasting (simulating) their effectiveness.*

September 2013/December 2013: **Visiting Scholar as Fulbright Schuman**

Grantee. Urban Design Lab – Graduate School of Architecture Planning and

Preservation and the Earth Institute. Columbia University, New York City,

USA. *With a research project regarding the environmental sustainability of*

dense urban areas and the role of green infrastructures, considering the policies implemented in New York city and the role of the community involvement.

September 2010/February 2011: **Guest researcher.** Delft University of

Technology, Department of Materials & Environment, The Netherlands. *Title*

of the researches developed (in collaboration with Dr. Marc Ottele): “An experimental approach to determinate the effect of vertical greenery systems on thermal resistance and wind velocity”, “A comparative life cycle analysis for green façades and living wall systems”.