



prof. arch. Antonella Violano
PhD, Associate Professor of Technology of Architecture (ssd ICAR_12)

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CURRICULUM PROFILE

2020 - Habilitation Full Professor - I Fascia s.c. 08/C1

since 2017 - Associate Professor - s.s.d. ICAR/12
University of Campania "L. Vanvitelli" - Department of Architecture and Industrial Design
ICAR 12 - Technology of Architecture

2005/2017 - Researcher s.s.d. ICAR/12
Second University of Naples (current University of Campania "L. Vanvitelli")
08/C1 - Design and Technological Design of Architecture

1999/2004 - Research fellow s.s.d. ICAR/12 - Second University of Naples
1999/2003 – Research on: *"Analysis, protection and sustainable development of Ager Campanus - Tools for the management and enhancement of the environmental heritage of Ager Campanus. The case of areas of particular natural and landscape value"*
2003/2004 – Research on: *"The Ecological Network as a tool for the management and enhancement of environmental heritage"*

1999 – PhD Europeus in "Evaluation Methods for the Integrated Conservation of Architectural, Urban and Environmental Heritage" (XI Cycle) University of Naples Federico II
Thesis on: *"The integrated management of Architectural Heritage within the institutional framework of the Public Administration"*

1996 - Qualification to the profession of Architect
Order of Architects, Landscape Planners and Conservators of Naples and its Province (Matr. 6666)

1995 - Degree in Architecture
University of Naples Federico II, Faculty of Architecture. Vote: 110 cum laude /110;
Thesis on: *"Ecological Economics: Multi-criteria methods for the evaluation of plans and projects"*.

since 2018 - Director of the Quality Centre of the University of Campania "L. Vanvitelli"
Rectoral Delegation of 17 May 2018 (DR n. 0385 of 17/05/2018)

ACADEMIC RESPONSIBILITIES

since 2019 - President of the Joint Commission of teachers and students of the Department of Architecture and Industrial Design of the University of Campania "L. Vanvitelli"

since 2006 - Responsible for the Quality Assurance (RuAQ) of DADI - Laboratory for the Control of the Built Environment Ri.A.S.

SCIENTIFIC PROFILE

Architect, Associate Professor of Technology of Architecture (s.s.d. ICAR/12) at the Department of Architecture and Industrial Design (DADI) of the Università degli Studi della Campania "Luigi Vanvitelli".

Coordinator of the "Carbon Neutral Building" (CNB) Research Group.

President and Research and Development Director of the innovative start-up DReAM-IT srl.

Ph.D. in Evaluation Methods for the integrated conservation of architectural, urban and environmental heritage (11th cycle - University of Naples 'Federico II').

She carries out research mainly in the field of technological innovation for the built environment and the management of architectural and environmental resources, with particular attention to the themes of environmental quality and energy of the technological project.

Three specific lines of research can be identified, which have had results in numerous publications:

a) **TECHNOLOGICAL CULTURE OF DESIGN:** critical study of the relationship between technological potential, characteristics and quality of the built environment in order to support innovation processes and design experiments environmentally and energetically aware. Specific references concern the energy quality of architectural works (demanding/performance dynamics, resilient technological design, quality controls), construction and architectural transformation technologies (material and immaterial processes), project technologies (methods and tools for decision support, modelling-simulation, integration and communication between the different actors of the construction process and stakeholders) and the cognitive relationships between the creative/design moment and the technical/construction/processory one;

b) **ENERGY-ENVIRONMENTAL DESIGN:** control of the multi-scalar relationships between the building organism and the built and natural environment, with the aim of designing new configurations of architectural and urban systems concerned to generate sustainable anthropic processes. These studies are supported by the development of methods of control of energy and environmental characteristics, developing specific applications at different scales (from the territorial system to the building system) and in the different phases of the building process (from design to construction site), in the light of the new paradigms proposed by the voluntary standard and the mandatory legislative apparatus;

The research line has the innovative peculiarity of investigating the potential of voluntary eco-management tools, until now limited to the restricted areas of the production system, verifying their applicability, after a serious scientific study, to wider contexts such as construction and urban. The scientific investigation starts from the Environmental Management System (inspired by the international standards ISO 14.001 and EMAS), to continue the in-depth studies towards the Quality Management System (ISO 9001) and Energy Management System (ISO 50001) all other instruments applicable to the building sector (Diagnosis and Energy Certification). Specifically, particular attention is paid to the formulation of the demanding framework, through the construction of evaluation indicators to encourage technological innovation.

c) **TECHNOLOGIES OF MATERIALS AND COMPONENTS:** study of the performance and construction characteristics of bio-based materials: "biotic-processed" and "biotic-processing" materials, according to the principles of Regenerative Architecture and the "Cradle to Cradle" approach.

The studies conducted also characterize the attitude to interdisciplinary confrontation with Italian and foreign realities. The scientific research carried out has had opportunities for verification and comparison also through the teaching of professional training courses (Training Courses, IFTS Courses and E-learning Courses) and higher education (Doctorates and Masters): teaching activities for operators external to the university, linked to the world of professions, industry and the market.

Participation in national and foreign Academies, Associations and Institutions

since 2014 - National Secretary of the Italian Society of Architecture Technology (SITdA) and Delegate for Communication

since 2011 - Member of the Association RehabiMed - Barcelona (Spain).

since 2005 - Member of the Inter-University Centre for Research on Architecture and Technological Innovation for the Environment (ABITA)

DIDACTIC ACTIVITIES carried out at university level in Italy and abroad

The didactic activity in the University Degree Courses was carried out exclusively in the s.s.d. ICAR 12 - Technology of Architecture in the Degree Courses of the Department of Architecture and Industrial Design of the University of Campania "L. Vanvitelli", continuously since the academic year 2004-2005.

The post-graduate teaching activity includes experiences carried out both at the Doctorate and at other universities with which he has also collaborated in the field of research activities; in advanced training courses and courses of higher education, in collaboration with public and research institutions; in the Masters of I and II level:

since 2016 - 2nd level Master Erasmus Mundus "Dyclam" - Scuola Politecnica e delle Scienze di Base of the University of Naples Federico II, Interdepartmental Centre CITTAM

since 2004 - 2nd level Master's Degree in Bioecological Architecture and Technological Innovation for the Environment, at the Interuniversity Research Centre for Bioecological Architecture and Technological Innovation for the Environment, University of Florence (ABITA)

2010 – 1st level Master in Valorization and Marketing of Cultural Heritage, Association Project Europe, Interregional Catalogue of Higher Education (Executive Decree No. 283 of 06/11/2009 Resolution of G.R. n. 678 of 9 April 2009)

International teaching activities:

Visiting Professor at the 'Escuela Técnica Superior de Engynieria' of the 'Universidad Politécnica de Valencia'.
March 2023

Visiting Professor at the 'Escuela Técnica Superior de Edificación' of the 'Universidad Politécnica de Madrid'.
September 2019
September 2018

Visiting Professor at National Technical University of Athens - School of Architecture
April 2016

SCIENTIFIC RESEARCH

Since 2015 she is Scientific **Coordinator of the Research Group Carbon Neutral Buildings** (ex: Zero Energy Building towards Zero Embodied Energy Building - ZEB twd ZEEB) operating within the Department of Architecture and Industrial Design of the University of Campania "Luigi Vanvitelli"
(https://www.architettura.unicampania.it/images/ricerca/gruppi/18_Violano_2022_ITA_06_05_2022.pdf).

Since 2022 **President and Scientific Director of DReAM-IT S.r.L** (Development&Research Action on Materials Innovation Technologies), **Innovative START-UP and Academic Spin Off** of the University of Campania "Luigi Vanvitelli" (<https://dreamitsrl.com/>), winner of the "Prize for research activities with industrial impact 2021" announced by the University of Campania "Luigi Vanvitelli" (with R.D. no. 157/2022, prot. gen. of Ateneo no. 38369 of 24/02/2022) .

Coordination of funded research projects:

- 2019-2023 - Scientific Responsible of the UNICAMP Unit Associated partner of the MedEcoSure Project - Mediterranean University as catalyst for EcoSustainable Renovation - Med ENPI CBC Programme 2014-2020

- 2017-2018 - Scientific Responsible for the RIS3 Research Project - PO FSE Campania 2014/2020, Axis III, Specific Objective 14 entitled: "nZero Energy Box", aimed at the construction of prefabricated structures with very high energy efficiency, usable during the construction phase;

- 2009-2010 - Scientific Responsible UO-UNICAMP of the Research Project Law 5/2002 on: "The enhancement and recovery of environmental and cultural heritage through the reading and philological analysis of texts, epigraphs and evaluation based on multi-criteria analysis: the area of Sant'agata dei Goti".

- 2009-2012 - Scientific Responsible UO-ICAR12 of the Project "Guang-Fu South Road, Plan for the Protection of Historical and Cultural Buildings", Ministerial Convention Italy-China - Mediterranean Platform.

Member of the Research Group on Projects financed following competitive calls for proposals:

- 2022-2024 - Member of the Research Group in the European Project FASHION ALIVE, funded by the European Commission CREA-CULT 2021 Coop1

- 2022-2024 - Member of the Research Group in the National Young Researcher Project DR 509/2022 VALERE - THERMAL HERITAGE FOR ECOSUSTAINABLE REGENERATION, MOBILITY AND ECONOMY (THERME), funded by the University of Campania "L. Vanvitelli" within the framework of the VALERE Programme.

- 2020-2021 – Member of the Research group in the Deutsche Akademische Austausch Dienst (DAAD) Project (EF 2020-2021) "Green Ways. Wissensrouten und Netzwerke zwischen Orten mit besonderen regionalen, historischen und kulturellen Prägungen" - Hochschule Bochum - Department of Architecture -Bochum University of Applied Sciences (Germany)

- PRIN 2010-11 on "Protecting the landscape between conservation and transformation. Economy and beauty for sustainable development";

- Research project "S.E.E.M. Solar Eco-efficient Envelope Model", funded by the Ministry of the Environment and aimed at energy efficiency measures and the use of renewable energy sources in urban areas;

- Regional Research Project L R 5/2002, annuality 2007, on "Guidelines for the energy and functional rehabilitation of school buildings in the Mediterranean area";

- PRIN 2004 on "The Environmental Management System and the evaluation of the compatibility of the uses in the rehabilitation design of the disused areas", within the National Project: "The environmental compatibility in the rehabilitation interventions and reconversion of the disused areas";

- PRIN 2002 on "Innovative bioclimatic solutions for the integration of natural and vegetational elements in building systems, as part of National Project: "Strategies for the promotion of environmentally friendly public housing";

- ENEA-MIUR National Research Project on "Analysis of the potential of photovoltaics in building retrofit".

EDITORIAL BOARD AND SCIENTIFIC COMMITTEE

Journal

- TECHNE Assistant Editor. Journal of Technology for Architecture and Environment (ISSN online: 2239-0243; ANVUR - GEV 08 - Scientific Journal, Class A VQR) from 22/01/2021;
- Member of the International Editorial Board of "VITRUVIO - International Journal of Architectural Technology and Sustainability" Universitat Politècnica de València, e-ISSN: 2444-9091 (ANVUR - GEV 08 - Scientific Journal, Class A VQR), since 15/04/2021 ;
- Member of the International Editorial Board of "AGATHON", International Journal of Architecture, Art and Design (ISSN (online) 2532-683X; ISSN (print) 2464-9309, open access; Class A VQR), from 01/01/2020;
- Member of the Editorial Board of the magazine "PONTE" Architecture, Technique and Legislation for building (Print ISSN: 1129-3918), DEI srl Typography of Civil Engineering; ANVUR - GEV 08 - Scientific Journal, from 20/07/2015;
- Member of the Editorial Board of the International Journal "Journal of Civil Engineering and Architecture Research" (Print ISSN: 2333-911X; Online ISSN: 2333-9128), from 09/07/2015;
- Member of the Scientific Advisory Board of the Architecture and Urbanism Magazine "A Obra Nasce" (ISSN 2183-427Xe), Published by Edicoes Universidade Fernando Pessoa, Porto (Portugal) from 27/07/2014;

- Member of the Editorial Board of the International Journal "Journal of Architectural Research and Development" (JARD) (ISSN: 2208-3537), from 04/01/2018;
- Editor in Chief of the International Journal "Housing Policies and Urban Economics" (HoPUE), (ISSN 2385-1031 in print; ISSN 2282-0671 on line, open access) - from 01/07/2017 to 30/06/2020;

Editorial series

- Member of the Scientific Committee of the "MED SMART CITIES" Editorial Series (Scientific Director Marco Sala), Altralinea Edizioni - Florence, from 10/02/2015;
- Member of the Scientific Committee of the Editorial Series "UrbanNarrAction.net UNA", UNAPress Edizioni - Milan, from 12/10/2020.

PUBLICATIONS

The results of the research carried out have been disseminated and approved through more than 190 publications at national and international scientific conferences and in original scientific publications (monographs, volume curatorships, contributions in books and Conference Proceedings), including:

Article in journal: 42

Contribution in volume (Chapter or Essay): 59

Contribution in conference proceedings: 76

Monograph or scientific treatise: 4

Curatorship: 8

Patent: 2

For a detailed list of publications, please refer to the link:

https://iris.unicampania.it/simple-search?query=antonella+violano&location=&rpp=10&sort_by=dc.title_sort&order=asc

Naples, 2023/09/20

In fede
Antonella Violano

I, the undersigned VIOLANO ANTONELLA

AWARE

of the responsibility which I may incur in the event of making a false declaration or exhibiting a false deed or one containing untrue data, as well as of the penal sanctions referred to in Article 76 of Presidential Decree no. 445/2000, for cases of falsity in deeds and false declarations pursuant to Articles 46/47 of Presidential Decree no. 445 of 28.12.2000;

DECLARES

- that I am in possession of the educational and scientific qualifications, that I am the author of all the publications and the holder of the certifications declared in this Curriculum Vitae
- the truthfulness of the information contained in it, with express indication of the declarant's awareness of the penalties under art. 76 for false declarations and that all the data contained in the curriculum as well as the activities and assignments carried out correspond to the truth

AUTHORISES

the processing of personal data pursuant to Legislative Decree 196 of 30 June 2003 and art. 13 GDPR (EU Regulation 2016/679).

In faith
Antonella Violano