

CURRICULUM VITAE

ROSSANO ALBATICI

Personal data

Date and place of birth: November 6th, 1971 - Trento (Italy)

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Qualifications

Ph.D. in Engineering for building restoration and technological innovation, University of Naples - Italy (03.2000)

M.Sc. in Civil Engineering, cum laude, University of Trento - Italy, (12.06.1996)

Recent academic employment history

Full Professor of Building Construction, University of Trento (1.12.2018-up to date)

Associate Professor of Building Construction, University of Trento (2012-2018)

Assistant Professor of Building Construction, University of Trento (2002-2012)

Head of the Laboratory of Building Design DICAM, University of Trento (2017-up to date)

Affiliations and Prizes

- Member of the board of ArTec - Italian Scientific Society of Architectural Engineering (2019-up to date)
- Member of STARS - Society for Theory And Research on Salutogenesis (2019-up to date)
- Member of IAHS - International Association for Housing Science, seated in Miami, Florida – USA (2005-up to date)
- Member of the Scientific Committee of Polo Edilizia 4.0 (Italy) (2019-up to date)
- Representative at the United Nations - Ginevra of IAHS - International Association for Housing Science (2007)
- Member of the Technical Scientific Committee (CTS) of Green Building Council Italia (GBC Italia) (2008-2009)
- Coordinator of working group 5 “Indoor Environmental Quality” (IEQ) of the Technical Scientific Committee (CTS) of Green Building Council Italia (GBC Italia) (2008-2009)

Main research interests

1. Sustainable buildings with particular attention to bioclimatic architecture and the use of passive elements for heating and cooling (natural ventilation)

2. Indoor comfort conditions, both thermal (conditioned as well as natural ventilated buildings), acoustic and visual, even through dynamic modelling of existing buildings and their monitoring
3. Rating system for the evaluation of sustainable buildings
4. Domotics for the exploitation of natural and artificial lighting, in order to achieve the better visual comfort with the less energy consumption
5. Codes of practice and design methodologies for the functional and constructive aspects in the field of renovation and reuse of the existing building stock.

Track-record of published research outputs

Non-bibliometric indicators (in parenthesis the threshold to be accredited as member of the panel for National Scientific Qualification for 1st and 2nd tier Professors in the field 08/C1: Design and Technological Planning of Architecture)

- Overall number of scientific outputs published in the last 10 years: 53 (37)
- Number of A-tier journal papers published in the last 15 years: 17 (3)
- Number of monographs published in the last 15 years: 7 (2)

Bibliometric indicators (numbers referred in sequence to Scopus database / WOS database / Google Scholar database)

- Number of research outputs listed: 27 / 22 / 61
- Number of citations: 384 / 321 / 576
- H-index: 10 / 8 / 11

Track-record of funded research projects

(Principal Investigator – PI, Associated Investigator – AI, collaborating investigator – CI)

1. Main International projects

- "Vocational and Educational Training for Building Observation, Operation and Maintenance" - Leonardo da Vinci Programme (Italy, Romania, Hungary, Ireland, Denmark, Slovakia), Grant Agreement n°2003 HU/03/B/F/PP170003, years 2003-2006 - CI
- "Strategies for a Low Carbon Urban Built Environment" - European Action Cost C23, years 2005-2008 – Member of MC
- "Accessible World for All Respecting Differences" - Leonardo da Vinci Programme (Italy, Romania, Hungary, Ireland, Slovenia), years 2003-2006 - CI
- "B_EN_IMPACT – Building’s ENvironment IMPACT evaluator & optimisator" - Research project funded by EnginSoft s.p.a., years 2009-2012 - CI
- "Energy efficiency and renewable energies in the building sector" - funded by the European Community within the programme European Territorial Cooperation – Alpine Space, years 2009-2012 - CI
- "Smart Energy Regions" - European Action Cost TU1104, years 2012-2015 – Member of MC
- "Indoor living space improvement: Smart Habitat for the Elderly” – European Action Cost TU1104 CA16226, years 2018-2022 – Member of MC
- “Planning and Engagement Arenas for Renewable Energy Landscapes – PEARLS” – H2020-MSCA-RISE-2017 (Italy, Spain, Portugal, Greece, Israel), years 2018-2022 – Local PI

2. Main National projects

- "Analysis of the solar passive systems efficiency for wooden buildings in the alpine region and design guidelines", in "Design of building elements for bio-eco-sustainable enclosures in Italian climates in summer conditions: superinsulation, passive solar systems, ventilated enclosure" -

Scientific Research Programme of Relevant National Interests - co-finance by MIUR, years 2005-2007 – AI

- "Survey of the inner microclimate and thermal comfort conditions in bioclimatic (wooden) buildings naturally ventilated" - Research Programme funded by Progetto Ecosisthema s.r.l., year 2006-2007 - PI
- "Research project aimed at the improvement of the constructive system and its integration with innovative technologies in order to produce renewable energies" - Research Programme funded by Gruppo Polo - Le VillePlus, year 2007-2008 - CI
- "Implementation of LEED rating system section 5 “Indoor Environmental Quality” related to the typological and constructive features of the Italian building estate" - Research Programme funded by Autonomous Province of Trento, year 2008-2009 - PI
- "Strategies for an integrated and sustainable control fo visual and thermal conditions in office buildings" - Research Programme funded by BPT Group - Villotta (PN), year 2008-2009 - CI
- "Analysis and modelling of sunspaces as passive solar systems for building heating" - Research project funded by UNITN, year 2010-2011 - PI
- "Definition of an operative system for the determination of the thermal transmittance value of opaque elements of a building envelope by means of on site survey using infrared thermal technique" - Research Programme funded by ITEA SpA, year 2010-2012 - PI
- "ZEFiRe: Zero-Energy Fishfarming Research. Innovative modular system with high energy efficiency for aquaculture" - Research Programme funded by Energy and Environment Network of the Province of Trento, years 2010-2012 - CI
- "Energy analysis of buildings in dynamic conditions: problems related to proper input data and comparison with as built state" - Research Programme funded by ESSEDI Strategie d'Impresa S.r.l., years 2011-2014 - PI
- "Architecture of Performance" - Research Programme: Industry 2015 - New Technologies for Made in Italy, years 2011-2014 - AI
- "CASA: Comfort per l’Abitare Sostenibile nelle Alpi”, Research Programme co-funded by Covi Srl and Autonomous provincie of Trento, years 2014-2021 -PI
- “IsolMAX”, Research Programme co-funded by Cogi Srl and Autonomous provincie of Trento, years 2018-2020 - PI
- “Renew-wall – retrofit prefabbricato in legno”, Research Programme co-funded by Fanti Legnami Srl and Autonomous province of Trento, years 2019-2022 - AI

Teaching

- Building Construction (Degree in Civil Engineering – 9 ECTS) at DICAM – University of Trento
- Sustainable building and Architecture (Master Degree in Civil Engineering – 6 ECTS) at DICAM – University of Trento

Overall, I have supervised to completion 4 PhD students at the University of Trento, and I am currently the supervisor of 3 PhD students at the University of Trento

Moreover, I have supervised to completion 122 master students at the University of Trento in their final dissertation

Service

- Scientific coordinator of TESS-Lab (Technology for Service and Sustainability Labs) at Progetto Manifattura at Rovereto (Italy, University of Trento (with Bruno Kessler Foundation and Trentino Sviluppo) (2018-up to date)
- Director's delegate: member of the Building Commission, DICAM, University of Trento (2013-up to date)
- Director's delegate: Building management, DICAM, University of Trento (2015-up to date)
- Scientific Responsible of the MoU between UNITN and Polzunov Altai State Technical University (Barnaul, Russia), DICAM, University of Trento (2017-up to date)
- Member of the Executive Committee of the Doctoral School in Environmental Engineering, DICAM, University of Trento (2010 – 2012 and 2018-up to date)
- Member of the Self-assessment group, Didactic Area Committee of Civil Engineering – DICAM, University of Trento (2018-up to date)
- Member of the University salary steps evaluation commission, University of Trento (2017- 2018)
- President of the University salary steps evaluation commission, University of Trento (2019- 2020)
- Responsible of Career service Commission, Didactic Area Committee of Building Engineering and architecture – Faculty of Engineering, University of Trento (2003 – 2009)
- Responsible of Career service Commission, Didactic Area Committee of Civil Engineering – Faculty of Engineering and DICAM , University of Trento (2006 – 2018)
- Elected Representative of researchers in the Department Council, DICAM, University of Trento (2003 – 2004 and 2005-2010)
- Member of the Tutoring Commission, Degree course in Building Engineering and architecture – Faculty of Engineering, University of Trento (2001 – 2006)
- Representative of University Researchers in the Coordination Committee of CONSAT – National Coordination of Building Construction Teachers (2006-2010)

Reviewer for the following international journals

- AIMS Environmental Science
- Applied Energy
- Applied Sciences
- Architectural Science Review
- Building and Environment
- Energies
- Energy and Buildings
- Energy Efficiency
- Energy Sector Management
- Environmental Engineering and Management Journal
- Indoor and Built Environment
- International Journal of Thermal Sciences
- Journal of Building Engineering
- Resources Conservation & Recycling
- Sustainability
- Tema – Technologies Engineering Materials Architecture
- Thermal Science
- International Journal of Heat and Mass Transfer

- Invited reviewer of the Special Journal Issue "Best Practices on Land Management Strategies" of American Society for Civil Engineers ASCE-Urban Planning and Development Journal, (ASCE)-Urban Planning Division published in 2007

External peer-reviewer for research grants

- Slovak Research and Development Agency for the evaluation of national research project presented for funding request (year 2007 e 2013)
- Evaluator of technical, scientific and economic aspects for FinPiemonte SpA on the research and innovation projects presented by the subjects associated with the Innovation Poles (Piemonte Region) and on the development lines and/or technological paths to which the projects refer (year 2010, 2012, 2013, 2014)
- Hungarian Scientific Research Fund (OTKA) for the evaluation of national research project presented for funding request (year 2014)
- Evaluator of technical, scientific and economic aspects for FinPiemonte SpA on the preliminary technical feasibility studies presented by the subjects associated with the Innovation Poles (Piemonte Region) and/or on the development lines or technological trajectories to which the projects refer (2014-2015).
- Anonymous external reviewer for the MIUR for the Call for Young Researchers 2013 pursuant to Ministerial Decree December 28, 2012 n. 956/ric (year 2014)
- Anonymous external reviewer for the MIUR for the Call SIR (Scientific Independence of young Researchers) (year 2015)
- Anonymous external reviewer for the Fondazione Sardegna as part of the "Research Projects of Fondazione Banco di Sardegna - 2015" call for proposals (2015)
- Member of the panel of experts for the technical-scientific evaluation of projects presented under the call "Presentation of industrial research and experimental development projects in the 12 specialization areas defined by PNR 2015-2020" (D. D. 13 July 017 n. 1735) – Specialization area Energy, defined by the Italian Ministry of Education University and Research (2018)
- Evaluator for AIAS-Cofound II Fellowship 19, Aarhus Institute of Advanced Studies - Aarhus University (2019)

Publications

Author and co-author of more than 135 publications among articles on national and international journals, books and conference proceedings.

Complete list at the web page: <https://webapps.unitn.it/du/it/Persona/PER0004743/Pubblicazioni>