

Stefano Lazzari

Associate Professor of Environmental Technical Physics (IIND-07B)

EDUCATION AND TRAINING

2000

PhD in Technical Physics

Thesis defended: "Numerical and experimental analysis of innovative heat exchangers"

Alma Mater Studiorum - University of Bologna

1996

Full Professional Engineering License (all sectors)

Order of Engineers of Bologna

1996

Master's Degree in Electrical Engineering – Energy Track

100/100 cum laude

Thesis defended: "Computation of Induced Disturbances on Multiconductor Transmission Lines in the Presence of Finite-Conductivity Ground: Time-Domain Model Development and Computer Implementation"

Alma Mater Studiorum - University of Bologna

1994

Awarded the 'Prof. E. Foà' Scholarship

For outstanding performance in Technical Physics

Alma Mater Studiorum – University of Bologna

1990

High School Diploma with a specialization in Science

60/60

E. Fermi State Scientific High School – Bologna

ACADEMIC EXPERIENCE

2017 – ...

Associate Professor of Environmental Technical Physics (IIND-07B)

Teachings:

- Technical Physics (BD Design for Product and Communication), 6 CFU, since a.y. 2013/2014;
- Technical Systems for Architecture (MD Architecture), 6 CFU, since a.y. 2014/2015;
- Environmental Technical Physics (BD Architectural Science - Building Engineering), 8 CFU, since a.y. 2019/2020;
- Renewable Sources and Technical Plant Design (CdLM Architectural Composition), 5 CFU, since a.y. 2023/2024.

University of Genova

2014 – 2017

Tenured Researcher of Environmental Technical Physics (ING-IND/11)

Teachings:

- Technical Physics (BD Design for Product and Communication), 6 CFU, since a.y. 2013/2014;
- Technical Systems for Architecture (CdLM Architettura), 6 CFU, since a.y. 2014/2015;

University of Genova

1999 – 2014

Tenured Researcher of Industrial Technical Physics (ING-IND/10)

Teachings:

- Technical Physics (BD Electrical Engineering), 9 CFU, from a.y. 2010/2011 to a.y. 2013/2014
- Computational Lab of Heat and Mass Transfer (MD Energy Engineering), 3 CFU, from a.y. 2006/2007 to a.y. 2010/2011
- Technical Physics (BD Biomedical Engineering), 6 CFU, from a.y. 2001/2002 to a.y. 2010/2011
- Fluid Dynamics (BD Biomedical Engineering), 6 CFU, in a.y. 2000/2001

Alma Mater Studiorum - Università di Bologna

1996 – 1999

PhD in Technical Physics

His research activities are experimental, numerical and analytical.

Alma Mater Studiorum – University of Bologna

ACADEMIC ROLES

2021 - 2024

Member of the Department Board of DAD

Member of the Departmental Committee for the Assignment of Occasional Appointments

Department of Architecture and Design – University of Genova

2016 - ...

Member of the Research Commission of DAD

Department of Architecture and Design – University of Genova

2017 - ...

Member of the Working Committee of the University Research and Innovation Hub 'ENERGY AND ENVIRONMENT', appointed by the Vice-Rector for Research and Technology Transfer

University of Genova

2016 - 2019

University Representative on the Scientific Committee of the Consortium for Innovative Technologies for Environmental Control and Sustainable Development (TICASS srl)

Member of the Board of the Master's Degree Program in Architecture

University of Genova

2012 - 2014

Member of the Academic Board of the PhD Program in Energy, Nuclear, and Environmental Control Engineering

Alma Mater Studiorum – University of Bologna

2005 - 2010

Member of the Census Committee of the Engineering School
Researchers' Representative on the Faculty Council of the Engineering School
Alma Mater Studiorum – University of Bologna

2000 – 2004, 2009 - 2012

Member of the Department Board of DIENCA
Alma Mater Studiorum – University of Bologna

TITLES

KEY SEMINARS

2017 Webinar

Presenter of the talk 'Sustainable Design and BIM with COMSOL®'

2014 - 2015 Teaching Tutor in the first Second-Level University Master's Program 'Building Designer – Expert in Energy Efficiency and Sustainability for Buildings'
Construction School Authority of the Province of Savona

SCIENTIFIC RESPONSIBILITY FOR INTERNATIONAL AND NATIONAL RESEARCH PROJECTS FUNDED THROUGH COMPETITIVE CALLS INVOLVING PEER REVIEW

2015 - 2018 XERIC - Innovative Climate-Control System to Extend Range of Electric Vehicles and Improve Comfort

H2020 - Scientific leader of a research unit and deputy coordinator of the overall research project aimed at designing and developing an innovative air conditioning system for electric vehicles, with high energy efficiency. The project was successfully completed, reaching TRL6.
European Commission

TEACHING OR RESEARCH APPOINTMENTS (FELLOWSHIPS) AT RECOGNIZED FOREIGN OR SUPRANATIONAL UNIVERSITIES AND RESEARCH INSTITUTES

2018 - 2019 Teaching Assignment

He delivers a 24-hour advanced corporate training course on 'Innovative Air Conditioning Systems' for the engineers from the R&D department.
Webasto Thermo & Comfort Italy s.r.l.

2012 - 2013 PhD School in Energy, Nuclear, and Environmental Control Engineering at the University of Bologna

He teaches the course 'Numerical Modeling with COMSOL Multiphysics: Application Examples'
Alma Mater Studiorum – University of Bologna

LEADERSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, EDITORIAL SERIES, ENCYCLOPEDIAS, AND TREATISES OF RECOGNIZED PRESTIGE

2022 Review Editor

Member of the Editorial Board of Frontiers in Thermal Engineering and Frontiers in Mechanical Engineering

**AWARDS AND RECOGNITION FOR SCIENTIFIC ACTIVITY, INCLUDING AFFILIATION WITH ACADEMIES OF
RECOGNIZED PRESTIGE IN THE FIELD****2017 Best Paper Award**

Awarded for the paper: C. Isetti, S. Lazzari, E. Nannei, B. Cerrai, S. Nari “New climate-control units for more energy-efficient electric vehicles: system architecture”, Proc. of Twelfth International Conference on Ecological Vehicles and Renewable Energies (EVER2017), Principality of Monaco.

2015 – 2016 Reviewer Award

Awarded for his review activity for the journals Energies and Sustainability (MDPI)

**RESULTS ACHIEVED IN TECHNOLOGY TRANSFER IN TERMS OF PARTICIPATION IN THE CREATION OF NEW
COMPANIES (SPIN-OFFS), DEVELOPMENT, UTILIZATION, AND COMMERCIALIZATION OF PATENTS****2014, 2015, 2017 Patents**

Co-inventor in three patents: one related to an innovative method of air treatment; a second relative to an improved three-fluids combined membrane contactor; a third relating to an integrated highly-efficient air-conditioning system.

University of Genova

OTHER TITLES**Publications**

He is author of more than 100 scientific papers published on prestigious international journals with blind review, on International Conference Proceedings, on Italian Conference Proceedings, on Italian Journals.

Author of 2 books, 2 chapters on international books, and several lecture notes.

Scientific affiliations

Member of Italian Association of Technical Physics, Italian Union of Thermofluid Dynamics, and AICARR (Italian Association for Air Conditioning, Heating and Refrigeration)