



**Stefano
Morchio** Ricercatore

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Education and training

2023

PhD in Mechanical, Energy and Management Engineering

2018

MSc Mechanical, Energy and Aeronautics Engineering

109/110

Academic Experience

2025 - ONGOING

Researcher

University of Genova Italy

Adjunct Professor of the course in Applied Thermodynamics and Heat Transfer
(cod. 108756)

CORSO DI LAUREA - INGEGNERIA DELL'ENERGIA

2023 - 2025

Postdoctoral Research Fellow and Adjunct Professor

University of Genova Italy

2019 - 2023

Doctoral Student PhD Imeg in Mechanical, Energy and Management Engineering

University of Genova Italy

Language skills

English

Advanced

Teaching and research activity

Adjunct Professor

Adjunct Professor of the course in Applied Thermodynamics and Heat Transfer (108756), 30 hours, 9 CFU, Corso di Laurea in Ingegneria dell'Energia (ING-IND/10) 11438 (SAVONA) academic year 2023/2024 and 2024/2025

Academic supervisor for graduating Engineering students

Co-supervisor of a Master's thesis in Mechanical, Energy and Aeronautics Engineering

Co-supervisor of a Bachelor's thesis in Mechanical Engineering Co-supervisor of a thesis in Building Engineering and Architecture

Examination Committee Member

"Renewable Energy (60345)" for the Master's Degree in Mechanical, Energy, and Aeronautics Engineering, "Applied Thermodynamics and Heat Transfer (108756)" for the Bachelor's Degree in Energy Engineering, "Solar and Geothermal Energy (80043)" for the Master's Degree in Energy Engineering (LM-30), "Applied Thermodynamics and Heat Transfer (60359)" for the Bachelor's Degree in Electrical Engineering, "Heat Transfer (104390)" for the Bachelor's Degree in Electrical Engineering

Research Project

Research Project "POC instrument" funded by Poc Liftt/Compagnia di San Paolo, aimed at conducting experimental research activities in geothermal applications (2020-2021).

Research interests

Geothermal heat pumps and ground modelling, heat exchangers, heat transfer, solar and geothermal applications served to heat pumps.

Author of 17 scientific articles published in Scopus-indexed journals, Scopus h-index: 8, Scopus citations: 262.

Reviewer for over 30 scientific conference papers and International Journals. Member of the International Scientific Committee for the International Ground Source Heat Pump Association (IGSHPA) Research Conference 2026.

Review Editor for the section "Sustainable Design and Construction" within the journal *Frontiers in Built Environment*.

Guest Editor for the Special Issue "Ground-Source Heat Pumps and Thermal Energy Storage Systems—Energy for the Future" in the *Energies* open-access journal (ISSN 1996-1073).

Presenter (Presenting Author) of a Full Research Paper and Research Poster at the Poster Session at the International Ground Source Heat Pump Association (IGSHPA) Research Conference, Polytechnique Montréal, Canada, May 28–30, 2024.

Presenter (Presenting Author) of a Full Research Paper and Keynote lecture at the 10th AIGE/IIETA International Conference and the 20th AIGE 2025 Conference, Carpi, Italy, June 9–11, 2025.

Research experience abroad

Visiting Appointments:

Visiting Researcher *Awarded the research and scientific mobility fellowship from the "Lerici" Foundation (May–July 2019) at KTH Royal Institute of Technology, Stockholm, Sweden.*

Conference Participation *Journées Nationales sur l'Énergie Solaire (JNES 2021), CNRS, FédEsol (Fédération de Recherche Sur L'Énergie Solaire), August 25–27, 2021, Odeillo.*

Visiting PhD Student *In accordance with the PhD project (International PhD Student) at Polytechnique Montréal, Canada (April–October 2022).*

Educational Visit *Université Savoie Mont Blanc (Le Bourget-du-Lac, France), March 27–29, 2025.*