



Filippo Marchelli

## WORK EXPERIENCE

**02/01/2025 - CURRENT**

**Post-doc researcher** Department of Civil, Chemical and Environmental Engineering, University of Genova

Supervisor: Prof. Cristina Moliner

**01/2022 - 31/12/2024**

**Research Fellow** Department of Civil, Environmental and Mechanical Engineering, University of Trento

Co-supervisor with Prof. Luca Fiori of the project "Bioplastics: from residual biomass to platform chemicals to produce them, and how to recycle them", funded by PON 2014-2020.

Teacher of half of the course "Bioenergy", offered to the students of the Master Degree in Energy Engineering in the academic years 2022/2023 and 2023/2024.

**10/2019 - 12/2021**

**Post-doc researcher** Department of Civil, Chemical and Environmental Engineering, University of Genova

Supervisor: Prof. Renzo di Felice

**08/2019 - 12/2021**

**Support teacher in the course Fundamentals of Chemical Engineering 1** University of Genova

14 hours per year in the A.Y. 2019/2020, 2020/2021 e 2021/2022

## EDUCATION AND TRAINING

**10/2016 - 10/2019** Bolzano, Italy

**PhD in Sustainable Energy and Technologies** Free University of Bozen-Bolzano

Supervisor: Prof. Elisabetta Arato

Co-supervisors: Prof. Marco Baratieri, Prof. Barbara Bosio

**Thesis** CFD modelling of spouted beds for biomass thermochemical valorisation

**12/2018 - 05/2019** Melbourne, Australia

**PhD visiting student** Department of Chemical Engineering, Monash University

Supervisors: Prof. Aibing Yu and Dr. Qinfu Hou.

**08/2014 - 07/2016** Genova, Italy

**Master's Degree in Chemical Engineering** University of Genova

Supervisor: Prof. Barbara Bosio

Co-supervisor: Ing. Dario Bove

**Final grade** 110/110 cum laude

08/2011 – 09/2014 Genova, Italy

**Bachelor's Degree in Chemical Engineering** University of Genova

Final grade 101/110

## SCIENTIFIC PRODUCTION

### Scientific articles

Co-author of 27 articles published on international scientific journals. According to the Scopus database, as of February 19th, 2025, they have received 447 citations, with an h-index of 12.

Links <https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=57194342331&zone=> | <https://scholar.google.com/citations?user=g6mlPCsAAAAJ&hl=it>

### Conferences

Participation in international conferences with the presentation of 7 oral contributions and 7 poster contributions.

### Peer review

Peer reviewer for the following scientific journals: Powder Technology, Energies, Applied Sciences, Processes, Heliyon, International Journal of Chemical Reactor Engineering, Particuology, Biomass Conversion and Biorefinery, Drying Technology, Fermentation, Minerals, Agriculture, Chemical Engineering Research and Design, Fuel, Particulate Science and Technology, Renewable Energy, Advanced Powder Technology, Chemical Engineering Science, Chemical Engineering Journal, Journal of Analytical and Applied Pyrolysis, e altre.

Link <https://www.webofscience.com/wos/author/record/I-7470-2019>

### Co-supervisor

Co-supervisor of four students for the preparation of their final dissertation for the Bachelor's Degree in Chemical Engineering at the University of Genova and Master's Degree in Environmental Engineering at the University of Trento.

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Italian

**Other language(s):**

**English**

**Listening** C1

**Spoken production** C1

**Reading** C1

**Spoken interaction** C1

**Writing** C1

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*Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user*