



Filippo Marchelli

Research fellow

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Education and training

2020

PhD in Sustainable Energy and Technologies

CFD simulations of spouted beds for biomass thermochemical conversion
Free University of Bozen-Bolzano - Bolzano - IT

2016

Master Degree in Chemical Engineering

110/110 cum laude

University of Genova - Genova - IT

2014

Degree in Chemical Engineering

101/110

University of Genova - Genova - IT

Academic experience

2019 - ONGOING

Post-doctoral fellow

University of Genova - Genova - IT

Language skills

Italian

Mother tongue

English

Proficient

Research interests

My research activities have mainly been devoted to CFD (computational fluid dynamics) simulations of fluidised beds, through both continuous and discrete methods. I also dealt with biomass thermochemical conversion to produce energy or biochar, and with how to valorise such material. I can employ the programs Fluent and MFX to perform CFD simulations and Aspen Plus for process simulation.

Editorial activity

I regularly perform peer reviews for several international journals; the complete list can be seen on my Publons profile:

<https://publons.com/researcher/1371060/filippo-marchelli/>

Assignments abroad

In 2019 I was a visiting student at the Department of Chemical Engineering of Monash University (Melbourne, Australia). During that time I was part of the Laboratory for Simulation of Particulate Systems led by Prof. Aibing Yu.