

Marco Pancaldi

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Education

2019–2022 **Master degree**, *Alma Mater Studiorum - University of Bologna, Physics of the earth system*

Final mark: 110/110 cum laude

2015–2019 **Bachelor's degree**, *Alma Mater Studiorum - University of Bologna, Physics*

Master thesis

Title *Impact of waterbody evaporation in an urban canyon investigated through large-eddy simulations*

Supervisors Prof. Silvana Di Sabatino

Description Study of the impact of an evaporative channel on air dynamics in an urban canyon, as possible nature-based solution (NBS) to the urban heat island (UHI). Simulations of urban canyons crossed by evaporating water channels were performed and analysed. The simulations were carried out using a large-eddy simulation (LES) approach. New boundary conditions were implemented in an OpenFOAM solver to model water evaporation and the resulting heat transfer.

Grants and Fellowships

- 2022–present **PhD candidate in Future Earth, Climate Change and Societal Challenges**, *Department of physics and astronomy "Augusto Righi", Alma Mater Studiorum - University of Bologna*, affiliated with Centro Euro-Mediterraneo sui Cambiamenti Climatici *CMCC* Lecce
Research projec: "Study of the impact of Bosphorus and Danube uncertainty on probabilistic Forecast of the Black Sea"
- 2022 **Postgraduate Research Fellowship**, *Department of physics and astronomy "Augusto Righi", Alma Mater Studiorum - University of Bologna*.
Italia-Vietnam Joint Research Project: "Research and development of INtegrated RAinfall measurements platformfor application in agriculture, hydro-meteorological hazard prevention and mitigation and water management – INDRA"

Volunteer

- 2018–2022 **AGESCI**, *Scout leader at the Scout Group Pianoro 1*
- 2021–2022 **Caritas**, *Volunteer at the parish caritas of Pianoro*

Computer skill

- Languages Python, Fortran, C++
- Software OpenFOAM, NEMO, LaTeX
- OS GNU/Linux

Languages

- Italian Native language
- English Good

Driving license

- EU Standard category B

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 101/2018 e dell'art. 13 GDPR (Regolamento UE 2016/679) ai fini della ricerca e selezione del personale.