GIULIA BLANDINI

PhD student at the University of Genoa and CIMA Research Foundation

CONTACT

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INTERESTS

Hydrology

Data assimilation

Artificial intelligence

Machine Learning

Deep Learning

Data analysis and programming

Climate Change

Sustainability

Natural Hazard

EDUCATION

UNIVERSITY OF OSLO- DEPARTMENT OF GEOSCIENCES
05/02/2025 –ongoing
Visiting PhD

UNIVERSITA' DI GENOVA & CIMA RESEARCH FOUNDATION
01/11/2022 –ongoing
PhD in Security,Risk and Vulnerability.
Curriculum : Risk, climate change and sustainable development.
Research project: Unlocking the potential of Artificial Intelligence for hydrologic science and technology.

POLITECNICO DI TORINO
25/09/2019 – 25/03/2022
Master's Degree in Environmental and Land Engineering
Thesis: Detecting errors in environmental data: a machine learning data cleaning algorithm applied to snow data.
Developed skills: Machine Learning, Programming skills, Data processing, data statistics.
programming language: Python
Grade 110/110

POLITECNICO DI TORINO
23/07/2015 – 23/09/2019
Bachelor's Degree in Environmental and Land Engineering
Thesis: Laboratory nano-filtration of contaminated water with polymeric membranes.
Developed skills: nanofiltration with polymeric membrane, data collection and processing, report realization, communicate findings using models, charts, graphs.
Software used: OriginLab, Office suite.
Grade 92/110

WROCLAW UNIVERSITY OF TECHNOLOGY
28/09/2020-31/01/2021
E+/EU PROGRAMME COUNTRIES- Winter Exchange semester

PRE-UNIVERSITY EDUCATION
2011 – 2015
Liceo scientifico O.M. CORBINO-Siracusa (SR)

WORK EXPERIENCE

CIMA RESEARCH FOUNDATION
07/05/2022 –31/10/2022
Research fellowship
Topic : study and implementation of an algorithm of artificial intelligence for snow ground data validation.

CIMA RESEARCH FOUNDATION
16/09/2021–23/02/2022
Thesis internship
Supervisor A. Viglione (DIATI,Politecnico di Torino) Co-supervisor : Francesco Avanzi (CIMA).

CIMA RESEARCH FOUNDATION
15/03/2021–15/06/2021
Curricular internship
Validation algorithm for meteorological data forecasting on a national scale.
Developed skills: Programming skills, Data processing, data statistics.

POLITECNICO DI TORINO
18/11/2019 – 18/02/2020
Scholarship for research activities
Tutor professor A. TIRAFERRI (DIATI Politecnico di Torino)
Topic: Techniques of membrane filtration for contaminated water.

PAPERS

2023
Blandini, G., Avanzi, F., Gabellani, S., Ponziani, D., Stevenin, H., Ratto, S., Ferraris, L., and Viglione, A.: A random forest approach to quality-checking automatic snow-depth sensor measurements, The Cryosphere, 17, 5317–5333, https://doi.org/10.5194/tc-17-5317-2023, 2023.

2019
F. Ricceri, M. Giagnorio, G. Farinelli, G. Blandini*, M. Minella, D. Vione, A. Tiraferri, (2019). "Desalination of Produced Water by Membrane Distillation: Effect of the Feed Components and of a Pre-treatment by Fenton Oxidation". In Scientific Reports