

Marco Falda

Environmental Engineer

+393469459383

marcofalda1996@gmail.com

in <https://www.linkedin.com/in/marco-falda-05200922a/>

Education

- 2022-2024 **Joint Master's Degree Erasmus Mundus, GroundwatCH: Groundwater and Global Change**
IHE Delft (NL), IST Lisbon (PT), TU Dresden (DE), UNU-FLORES (DE)
- 2019-2023 **Master's Degree, Environmental Engineering**, University of Trento, **Erasmus+** IST Lisbon, **GPA: 3.7**
- 2015-2019 **Bachelor's Degree, Environmental Engineering**, University of Padova
- 2019-2024 **Honours Programme, TALETE - International Cooperation**, Trento International Cooperation Centre

Projects -

- 01/2025- **Research fellow**, *University of Bologna - ASI (Italian Space Agency)*
- 12/2025
 - Remote Sensing analysis for monitoring urban trace gas and aerosol emissions using hyper-spectral satellite images (TROPOMI, PRISMA, IASI) and in situ measurements (Pandora spectrometer)
- 03/2024- **Management Assistant (Internship) and Master's Thesis Researcher**, *UNU-FLORES*, Bogotá (Colombia)
- 09/2024
 - Support on the International Workshop Resilient Cities in Bogotá, drafting of the workshop proceedings
 - Understanding of the Urban and Periurban Agri-food systems in Colombia through local stakeholders engagement
 - Developing supportive tools for decision-makers to quantify project's impact scenarios and prevent biodiversity loss
- 09/2023- **Hydrogeological Modeler**, *TU Dresden*
- 01/2024 Applying Python modelling (GemPy, ArchPy) to simulate underground structures of alluvial deposits, subsurface processes and spatial uncertainties
- 05/2023- **Hydrogeologist**, *UNESCO IHE Delft*, Digne-Les-Bains
- 06/2023 Site reconnaissance for hydrological model conceptualization, groundwater sampling, well logging, geophysical surveys (e.g., resistivity, pH), hydraulic testing, borehole installation, contamination assessment
- 08/2021- **Environmental Modeler: Project "Seed"**, *University of Trento, Celim NGO, Cesvi NGO*
- 11/2021 Hydraulic flood modeling, field data collection, stakeholder interviews, flood management strategies planning
- 09/2021- **Project Consultant: "Percorsi Digitali Veronesi"**, *University of Trento*
- 08/2022 Data collection and organization, accuracy verification, meteorological data analysis, trend assessment, seasonal pattern evaluation, extreme event identification
- 09/2019- **Environmental Municipality Office Intern**, *Vicenza Municipality Office*
- 12/2019 Development of the website "**Cambiamo Aria**" for dissemination of air pollution critical info, data entry and management, report drafting (VIA, VAS, AUA), policy analysis, meeting coordination

Skills

Softwares **Lightroom, Adobe Premiere Pro**

QGIS, Basement, HEC-RAS, ModFlow, AutoCAD, Jupyter Notebook, Microsoft Office

Programming Matlab, Python, Latex (proficient), Fortran (familiar)

Languages Italian (Native), English (IELTS C1), Spanish (A2)

Licenses Drone pilot A1-A3

Hobby

Videomaker *Music videos for amateur projects and personal travel videos (Devices: Nikon D5600 - DJI Mini 2)*

Photographer *Photographer for ESN Bologna events (Spring Break Croatia and Pool Party)*

Devices *Nikon D5600 - DJI Mini 2*

Link photos *Link: **Photos Portfolio***