



Matteo Rolle

PhD student

Civil & Environmental Engineering

CONTACTS



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EDUCATION

- Oct 2018 **MSc. Environmental Engineering**
Politecnico di Torino, Corso Duca degli Abruzzi 24 (Italy)
- Thesis: "The water footprint of tourism".
 - Supervisors: Francesco Laio, Luca Ridolfi.
- Feb 2019 **Winter School "Rich Data Hydrology"**
Villa Colombella, Perugia
- Organizers: CINID, UNESCO WWAP & WARREDOC.
 - Main speakers: Rafael L. Bras, Stefan Uhlenbrook.
- Nov 2019 **"The Polar Oceans and Global Climate Change" training course (prof. ScD Peter Wadhams).**
Politecnico di Torino, Corso Duca degli Abruzzi 24 (Italy)
- Oct-Dec 2020 **Autumn School "Digital Water Management and water-related agroecosystem services"**
Online course
- Main topics: geostatistics, hydroinformatics, groundwater numerical modelling.
 - Organizer: Scuola Superiore Sant'Anna (Pisa).
- Nov 2020 **State examination**
- Professional qualification as environmental engineer.
 - Chartered to the Turin engineering association "Ordine degli Ingegneri della Provincia di Torino".
- May 2021 **Copernicus Open School "Copernicus, l'Agricoltura 4.0 e la sostenibilità ambientale e d'impresa"**
Online course

PROFESSIONAL EXPERIENCE

- Nov 2014 – Oct 2016 **Security guard**
- Juventus Stadium, Turin
- Jun 2018 – present **Municipal Councillor**
- Municipality of Mathi (TO), Italy
 - Urban planning, tech, environmental and water management area.

- Nov 2018 – present
- Ph.D. in Civil and Environmental Engineering**
Politecnico di Torino (DIATI), Corso Duca degli Abruzzi 24 (Italy)
- Research main topics: irrigation volumes assessment, classification of crop maps and irrigated lands with remote sensing data.
 - Supervisors: Stefania Tamea, Pierluigi Claps.
- Aug 2019 – present
- Drone pilot for critical operations**
- CRO patent.
 - Training at Alpha Lima Aviation (Turin).
 - Listed as ENAC operator.
- Oct 2019 – Jan 2021
- Tutoring activity for the master’s degree “Hydrology” course**
- Professor in charge: Stefania Tamea
- Feb 2017 – Jul 2017
- Internship at “Regione Piemonte”**
- Project “Una Buona Opportunita”
 - Main topics: Water and food security, virtual water, water grabbing, scientific dissemination activity, statistical surveys.
 - Internship tutor: Roberto Corgnati.
 - Academic tutor: Francesco Laio.

PUBBLICATIONS

- Jul 2020
- Tamea, S., Tuninetti, M. and Rolle, M., 2020. *Green and Blue water use for Agricultural Production: volumes and efficiencies*. In: Distefano, T., ed., *Water Resources and Economic Processes*. Routledge, pp.78-97.
- Apr 2021
- Rolle M, Tamea S, Claps P (2021) *ERA5-based global assessment of irrigation requirement and validation*. PLOS ONE 16(4): e0250979.
<https://doi.org/10.1371/journal.pone.0250979>

CONFERENCES ABSTRACTS

- Apr 2020
- EGU 2020**
 Rolle, M., Tamea, S., and Claps, P.: *Improved large-scale crop water requirement estimation through new high-resolution reanalysis dataset*, EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-19289, <https://doi.org/10.5194/egusphere-egu2020-19289>, 2020
- Nov 2020
- Earth Observation for Water Cycle Science 2020**
 Rolle, M., Tamea, S., and Claps, P.: *Climate-Driven Assessment of Global Irrigation Requirement, Using Satellite-Based ERA5 Reanalysis Dataset*. Online event organized by ESA, GEWEX, EC (DG-RTD), UNESCO, CNES, CNRS/IPSL and the University of Versailles-Saint-Quentin (16-19 Nov 2020).
- Apr 2021
- EGU 2021**
 Rolle, M., Tamea, S., and Claps, P.: *Spatio-temporal variability of global crop water requirement, during 1950-2020*, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-15698, <https://doi.org/10.5194/egusphere-egu21-15698>, 2021

COMPUTER SKILLS

- MATLAB
- ArcGIS
- QGis
- SNAP (ESA)
- CDO (Climate Data Operator)
- C3S Toolbox (Copernicus)
- Microsoft Office
- Python

Torino, 30/05/2021

A handwritten signature in black ink, reading "Matteo Delle". The signature is written in a cursive style with a large, sweeping initial 'M'.