

PERSONAL INFORMATION

Marco Rotiroti



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Sex Male | *Date of birth* 14/09/1983 | *Nationality* Italian

University Assistant Professor

WORK EXPERIENCE

2020 - Present

Assistant Professor

Department of Earth and Environmental Sciences, University of Milano-Bicocca, Piazza della Scienza 1, 20126 Milano, Italy; <https://www.disat.unimib.it/en>

- Research in hydrogeology, hydrogeochemistry, isotope geochemistry, contaminated sites, groundwater/surface water interactions, groundwater flow modelling, reactive transport modelling
- Teacher of the course Environmental Geochemistry

2013 - 2020

Postdoctoral Researcher

Department of Earth and Environmental Sciences, University of Milano-Bicocca, Piazza della Scienza 1, 20126 Milano, Italy; <https://www.disat.unimib.it/en>

- Groundwater quality by a multidisciplinary environmental approach and hydrogeochemical modelling
- Geochemical modelling of polluted groundwater resources

EDUCATION AND TRAINING

2010 - 2012

PhD in Environmental Sciences

University of Milano-Bicocca, Milano, Italy.

- Thesis title: *Hydrogeology and hydrogeochemistry of As, Fe, Mn rich groundwater of the multi-layer aquifer in the lower Po Plain, Lombardy region (northern Italy)*. Tutor: Prof. Tullia Bonomi.

2006 - 2009

Master in Environmental Sciences

University of Milano-Bicocca, Milano, Italy. 110/110 cum Laude.

- Thesis title: *Hydrocarbon contaminated site analysis with groundwater flow & transport modelling in the city of St. Petersburg (Russia)*. Tutor: Prof. Tullia Bonomi.

2002 - 2006

Bachelor in Environmental Sciences

University of Pisa, Pisa, Italy. 110/110 cum Laude.

- Thesis title: *Environmental impact assessment of a wastewater treatment plant on the receiving water body*. Tutor: Prof. Paolo Andreussi.

PERSONAL SKILLS

Mother tongue	Italian
Other language	English – Understanding: C1; Speaking: C1; Writing C1
Job-related skills	Team Working, Supervising, Networking, Project Writing, Project Management.
Digital skills	Geographical Information Systems, Databases, Numerical modelling of groundwater flow and solute transport, Hydrogeochemical modelling.
Evaluation Metrics	H-index (Scopus): 12 Citations (Scopus): 365 Documents (Scopus): 40

SELECTED PUBLICATIONS

- (1) Rotiroti, M.; Bonomi, T.; Sacchi, E.; McArthur, J. M.; Jakobsen, R.; Sciarra, A.; Etiope, G.; Zanutti, C.; Nava, V.; Fumagalli, L.; Leoni, B. Overlapping Redox Zones Control Arsenic Pollution in Pleistocene Multi-Layer Aquifers, the Po Plain (Italy). *Sci. Total Environ.* 2021, 758, 143646. <https://doi.org/https://doi.org/10.1016/j.scitotenv.2020.143646>.
- (2) Rotiroti, M.; Bonomi, T.; Sacchi, E.; McArthur, J. M.; Stefania, G. A.; Zanutti, C.; Taviani, S.; Patelli, M.; Nava, V.; Soler, V.; Fumagalli, L.; Leoni, B. The Effects of Irrigation on Groundwater Quality and Quantity in a Human-Modified Hydro-System: The Oglio River Basin, Po Plain, Northern Italy. *Sci. Total Environ.* 2019, 672, 342–356. <https://doi.org/10.1016/J.SCITOTENV.2019.03.427>.
- (3) Rotiroti, M.; Di Mauro, B.; Fumagalli, L.; Bonomi, T. COMPSEC, a New Tool to Derive Natural Background Levels by the Component Separation Approach: Application in Two Different Hydrogeological Contexts in Northern Italy. *J. Geochemical Explor.* 2015, 158. <https://doi.org/10.1016/j.gexplo.2015.06.017>.
- (4) Rotiroti, M.; Jakobsen, R.; Fumagalli, L.; Bonomi, T. Arsenic Release and Attenuation in a Multilayer Aquifer in the Po Plain (Northern Italy): Reactive Transport Modeling. *Appl. Geochemistry* 2015, 63, 599–609. <https://doi.org/10.1016/j.apgeochem.2015.07.001>.
- (5) Rotiroti, M.; Sacchi, E.; Fumagalli, L.; Bonomi, T. Origin of Arsenic in Groundwater from the Multilayer Aquifer in Cremona (Northern Italy). *Environ. Sci. Technol.* 2014, 48 (10), 5395–5403. <https://doi.org/10.1021/es405805v>.

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