

Thiago V. M. do Nascimento

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ABOUT ME

I am a Doctoral Researcher at Eawag, Switzerland working in the field of Data Analysis and Hydrological Modelling trying to understand why some river catchments are more sensitive to environmental change than others.

WORK EXPERIENCE

Doctoral Researcher at Eawag (ETH Domain)/University of Zurich, Switzerland [Mar 2023 – Current]

PhD researcher at the Hydrological Modelling Group at Siam, Eawag. Currently involved in a project with the goal of providing a better understanding about why are some river catchments more sensitive to environmental change than others.

Research Assistant at Instituto Superior Técnico, Portugal [Oct 2022 – Current]

Investigation of the hydrological cycle vulnerability of some watersheds and aquifer systems within the Iberian Peninsula to climate change and human-driven activities.

Intern at Paraiba Water and Sewage Company, Brazil [Jun 2019 – Apr 2020]

Update of water supply projects using GIS and AutoCAD and Undertaking field work for data collection.

Undergraduate research fellow at Federal University of Paraiba, Brazil [Jul 2018 – Apr 2020]

Investigation of environmental changes on the water balance of watersheds; and use of several remote sensing techniques for analysis of environmental systems.

EDUCATION AND TRAINING

PhD in Hydrology at University of Zurich, Switzerland [Mar 2023 – Current]

M.Sc in Hydro Science and Engineering at Technische Universität Dresden, Germany [Sep 2020 – Sep 2022]

M.Sc in Water Resources at Federal University of Paraiba, Brazil [Apr 2020 – Dec 2021]

B.Sc in Civil Engineering at Federal University of Paraiba, Brazil [Jul 2015 – Apr 2020]

LEADERSHIP EXPERIENCE

Member of the PhD committee of Eawag (ETH Domain), Switzerland [Mar 2023 – Current]

Teaching assistant at the Summer School in Bayesian Methods for Environmental Modelling, Eawag, Switzerland [Jun 2024]

SKILLS

Languages Native: Portuguese. Advanced: English. Intermediate: Spanish, French. Basic: German

Programming Advanced: Python. Advanced: JavaScript (Google Earth Engine). Familiar: R, MATLAB

Techniques Machine learning, Large datasets, Statistical analysis, Parallel computing.

MAIN PUBLICATIONS

- **EStreams: An Integrated Dataset and Catalogue of Streamflow, Hydro-Climatic Variables and Landscape Descriptors for Europe** <https://doi.org/10.1038/s41597-024-03706-1> Nature Scientific Data [2024]
- **Impacts of large-scale irrigation and climate change on groundwater quality and the hydrological cycle: A case study of the Alqueva irrigation scheme and the Gabros de Beja aquifer system** <https://doi.org/10.1016/j.scitotenv.2023.168151> Science of the total environment [2023]
- **Monthly Streamflow Modeling Based on Self-Organizing Maps and Satellite-Estimated Rainfall Data** <https://doi.org/10.1007/s11269-022-03147-8> Water Resources Management [2022]
- **Analysis of long- and short-term shoreline change dynamics: A study case of João Pessoa city in Brazil.** <https://doi.org/10.1016/j.scitotenv.2020.144889> Science of the total environment [2021]
- **Analysis of forest cover changes and trends in the Brazilian semiarid region between 2000 and 2018.** <https://doi.org/10.1007/s12665-020-09158-1> Environmental Earth Sciences [2020]

AWARDS

EMJMD Scholarship: For pursuing the master's program GroundwatCH - Groundwater and Global Change: Impacts and Adaptation <https://www.groundwatermaster.eu> [Sep 2020 – Sep 2022]