

# Thiago V. M. do Nascimento

Nationality: Brazilian Date of birth: 18/08/1998



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## ABOUT ME

I am a Doctoral Researcher at Eawag, Switzerland working in the field of large-sample hydrology and working on the creation of new datasets and improvement of the prediction of streamflow in ungauged basins using hydrological modelling.

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## 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 University 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.

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## EDUCATION AND TRAINING

- **PhD in Hydrology** at University of Zurich, Switzerland [ Mar 2023 – Current ] **Supervised** by Dr. F. Fenicia (Eawag), Prof. J. Seibert (UZH) and Dr. M. Hrachowitz (TU Delft)
- **M.Sc in Hydro Science and Engineering** at Technische Universität Dresden, Germany [ Sep 2020 – Sep 2022 ] **Supervised** by Prof. R.P. de Oliveira (University of Lisbon) and M.T. Condesso de Melo (University of Lisbon)
- **M.Sc in Water Resources** at Federal University of Paraiba, Brazil [ Apr 2020 – Dec 2021 ] **Supervised** by C.A.G. Santos (UFPB Brazil)
- **B.Sc in Civil Engineering** at Federal University of Paraiba, Brazil [ Jul 2015 – Apr 2020 ] **Supervised** by C.A.G. Santos (UFPB Brazil)

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## LEADERSHIP EXPERIENCE

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

**Teaching assistant** at Summer School in Bayesian Methods for Environmental Modelling, Eawag, Switzerland [ 2024, 2025 ]

**Mentoring:** co-supervision of Master's students at Eawag [2023 –2024]

**Project supervisor:** organized a team for the creation of two large-sample hydrology datasets (EStreams and CAMELS-CH-Chem).[2024 – 2025]

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## SKILLS

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

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

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

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## MAIN PUBLICATIONS

- How do geological map details influence geology-streamflow relationships in large-sample hydrology studies?  
<https://doi.org/10.5194/egusphere-2025-739> EGU sphere [preprint] [2025]
- 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]

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## AWARDS

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