

CURRICULUM VITAE

João P. Leitão (Senior scientist, Group leader)

Eawag: Swiss Federal Institute of Aquatic Science and Technology

Department Urban Water Management, Urban floods and Hydroinformatics group

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MAIN RESEARCH INTERESTS

Urban flood modelling and risk management; Urban water cycle (urban hydrology and urban water systems modelling); Geographic Information Systems (methodological development for urban hydrology analysis)

EDUCATION

- 2023 **Agregação (Habilitation) in Civil Engineering** at Instituto Superior Técnico, University of Lisbon, Portugal. Seminar: *Flood data sources and data-driven flood prediction: insights on novel tools*
- 2006 - 2009 **PhD in Civil and Environmental Engineering** at Imperial College London, University of London, UK
- 2001 - 2004 **MSc in Geographic Information Systems** at Instituto Superior Técnico, Technical University of Lisbon, Portugal
- 1996 - 2001 **Licenciatura (5-year undergraduate degree) in Environmental Engineering** at Technical University of Lisbon, Portugal

PROFESSIONAL EXPERIENCE (last five years)

- Since 2018 **Senior scientist** (Group leader, tenured). Infrastructures Group, Department of Urban Water Management, Eawag: Swiss Federal Institute of Aquatic Science and Technology, Switzerland
- 2014 - 2018 **Scientist** (Group leader on tenure-track). Infrastructures Group, Department of Urban Water Management, Eawag: Swiss Federal Institute of Aquatic Science and Technology, Switzerland
- Since 2019 **Lecturer**. Department of Civil, Environmental and Geomatic Engineering, ETH Zurich, Switzerland (Coordination of the 102-0248-00L: *Infrastructure Systems in Urban Water Management* course)
- Since 2017 **Lecturer**. Department of Civil, Environmental and Geomatic Engineering, ETH Zurich, Switzerland (4 h lecture on *Flood Risk Assessment* in the 102-0250-00L: Urban Drainage Planning and Modelling course)

GRANTS AND AWARDS

- 2022 **Top cited Article 2020-2021** (doi: 10.1111/jfr3.12684). *Journal of Flood Risk Management*
- 2019 **Best Paper** (doi: 10.5194/isprs-annals-IV-2-W5-5-2019). ISPRS Geospatial Week 2019
- 2019 **Top downloaded Paper** (doi: 10.1111/tgis.12304). *Transactions in GIS*
- 2018 **Most Innovative New Technology of the Year**. *UK Water Industry Awards*. As member of the CENTAUR development (project) team
- 2015 **Commended Paper** (doi: 10.1111/jfr3.12010). *Journal of Flood Risk Management* Outstanding

- paper Award 2013 (supported by the JBA Trust)
- 2012 **Post-doctoral Fellowship** (3+3 years). FCT: Portuguese Science and Foundation, Portugal (Fundação para a Ciência e a Tecnologia)
- 2011 **Co-author of the paper submitted to the Poul Harremões prize** awarded to Dr. Nuno E. Simões. IWA/IAHR Joint Committee on Urban Drainage
- 2007 **Young Persons' Paper Competition (runner-up)**. UK Section of the International Association of Hydraulic Engineering and Research (IAHR)
- 2006 **PhD Scholarship** (4 years). FCT: Portuguese Science and Technology Foundation, Portugal (Fundação para a Ciência e a Tecnologia)

STUDENTS (CO-)SUPERVISION AND POSTDOCTORAL RESEARCHERS MENTORING

3 PostDoctoral researchers

9 PhD students (5 on-going and 4 finished)

2 Research Assistant

> 30 Master students

EXAMINATION OF PhD THESES (external)

- 2023 Université Laval, Canada
- 2023 University of Newcastle, UK
- 2023 TU Delft, the Netherlands
- 2022 University of Lisbon, Portugal
- 2020 Pontificia Universidad Javeriana Bogota, Colombia
- 2019 INSA Lyon, France

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL ORGANIZATIONS

Urban Water Journal (*Associate editor*)

International Working Group on Data and Models of the IWA and IAHR JCUD (*Chair*)

IWA: International Water Association (*Eawag nominated representative*)

Portuguese Engineers Association (*Senior member/ Expert in urban water engineering*)

(selected) RECENT PUBLICATIONS IN INTERNATIONAL SCIENTIFIC JOURNALS

(full list at: <https://scholar.google.ch/citations?user=5jrwMT4AAAAJ&hl=en>)

Gobatti, L., Bach, P., Scheidegger, A., **Leitão, J.P.** (2023). Using satellite imagery to investigate Blue-Green Infrastructure establishment time for urban cooling. *Sustainable Cities and Society*, 97, 104768. doi: 10.1016/j.scs.2023.104768

Probst, N., Bach, P.M., Cook, L., Maurer, M., **Leitão, J.P.** (2022). Blue Green Systems for urban heat mitigation: mechanisms, effectiveness and research directions. *Blue Green Systems*. doi: 10.2166/bgs.2022.028

Chaudhary, P., **Leitão, J.P.**, D'Aronco, S., Perraudin, N., Obozinski, G., Perez-Cruz, F., Schindler, K., Wegner, J.D., Russo, S. (2022). Flood Uncertainty Estimation using Deep Ensembles. *Water*, 14, 2980. doi: 10.3390/w14192980

AD-HOC REVIEWER FOR SCIENTIFIC JOURNALS

Environmental Modelling and Software, Journal of Hydrology, Journal of Ecological Informatics, Natural Hazards, Urban Water Journal, Water Research, Water Science and Technology

AD-HOC REVIEWER FOR SCIENTIFIC PROPOSALS

For three International research science foundations