

Dr. Lampros Vasiliades

Assistant Professor

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Short Bio

Dr. Lampros Vasiliades is an Assistant Professor of Engineering Hydrology in the Department of Civil Engineering at the University of Thessaly, Greece. He is also a founding member of the university's [Laboratory of Hydrology and Aquatic Systems Analysis](#). He holds a B.Sc. in Environmental Science from the University of the Aegean, Greece, an M.Sc. in Environmental Engineering from Newcastle University, UK, and a Ph.D. in Hydrology and Hydroinformatics from the Department of Civil Engineering, University of Thessaly, Greece. He is a registered professional environmental scientist in Greece and a member of several professional and scientific organizations (e.g. [IAHS](#), [EGU](#), [EWRA](#), [IAHR](#), [iEMSs](#), [HHA](#), [HMS](#), [Global Nest](#)). He is an Editor for the Journals [Water](#), [Earth](#), [Hydroecology and Engineering](#) and [Frontiers in Environmental Science](#), and a regular [reviewer](#) for several international scientific journals. His research focuses on: analysis, modeling, and forecasting of extreme hydrological events (floods and droughts); spatiotemporal analysis, estimation, and modeling of hydrometeorological and water quality data; deterministic and stochastic hydrological and hydrodynamic modeling; climate change impacts on hydrological processes and water resources; water resources management; applications of geoinformatics in hydrology, water resources, and hydrosystems; and hydraulic/hydrologic engineering. He has authored or co-authored over 100 publications in refereed journals, international conference proceedings, and technical reports. His publication record is available on [Scopus](#) and [Clarivate-Web of Science](#). His published work has received over 2,000 citations (h-index=23) on [Scopus](#) and over 3,600 citations (h-index=27, i-10-index=36) on [Google Scholar](#). Furthermore, he has participated in several national and European research projects concerning hydrology, water resources management, and the use of remote sensing and GIS. He also serves as the National Representative or Substitute Member for Greece in various COST Actions (e.g., COST ES1404, COST ES0901, CA15206). His full academic profile is available on request and in multiple databases (e.g., [Google Scholar](#), [Scopus](#), [ResearcherID](#), [ORCID](#)).

Academic/Professional experience

- Assistant Professor with specialization in “Engineering Hydrology”, Department of Civil Engineering, University of Thessaly, Volos, Greece (November 2022 to present).
- Teaching and Research Staff with specialization in “Hydrology and Modelling of Aquatic and Environmental Systems – OGG 1591/B/17-6-2014), Department of Civil Engineering, University of Thessaly, Volos, Greece (2014 to Oct 2022).
- Researcher/Consultant on water resources, environmental, hydrological and hydraulics studies in public and private sector (2010-present).

Teaching Activities

- Undergraduate Courses: Geographic Information Systems; Engineering Hydrology; Hydrologic Modelling and Forecasting; Management of Extreme Hydrological Phenomena; Spatial Analysis Techniques and Remote Sensing Applications in Civil Engineering.
- Postgraduate Courses: Modelling of Floods and Flood Protection Works; Natural Disasters.

Selected Scientific Research Programs

- FloodReVol - Urban Flood Resilience in Volos: Integrating Nature-Based Solutions through Advanced Modelling of Compound Urban Floods. UTH Project Code: 8310, Region of Thessaly: Program: Thessaly 2021-2027 (2025-2027).
- Strengthening the resilience of cities against flood risk under climate change, AUTH project code: 10933, Greek Ministry of Environment and Energy (2024-2025).
- DRM-Frame: Disaster Risk Management and Civil Resilience”, No. 2023-1-EL01-KA220-VET-000162006, UTH Project Code: 7684, Erasmus+ Programme (2023-2025).
- ARSINOE: Climate-resilient regions through systemic solutions and innovations”, Grant agreement ID: 101037424, EU-HORIZON 2020 (2021-2025).
- HubIS – Open Innovation Hub for Irrigation Systems in Mediterranean Agriculture, PRIMA Project, PRIMA foundation (Partnership for Research and Innovation in the Mediterranean Area | Section 2 Call 2019 (2020-2022).

Selected Publications

- Vasiliades, L., P. Galiatsatou and A. Loukas, 2015. Nonstationary frequency analysis of annual maximum rainfall using climate covariates. *Water Resources Management*, 29(2), 339-358.
- Hundecha, Y., M. A. Sunyer, D. Lawrence, H. Madsen, P. Willems, G. Bürger, J. Kriaučiūnienė, A. Loukas, M. Martinkova, M. Osuch, L. Vasiliades, B. von Christerson, K. Vormoor and I. Yücel, 2016. Inter-comparison of statistical downscaling methods for projection of extreme flow indices across Europe. *Journal of Hydrology*, 541, 1273–1286.
- Papaioannou, G., A. Loukas, L. Vasiliades and G.T. Aronica, 2016. Flood inundation mapping sensitivity to riverine spatial resolution and modelling approach. *Natural Hazards*, 83(1), S117-S132.
- Papaioannou, G., L. Vasiliades, A. Loukas, and G.T. Aronica, 2017. Probabilistic flood inundation mapping at ungauged streams due to roughness coefficient uncertainty in hydraulic modelling. *Advances in Geosciences*, 44, 23-34.
- Papaioannou G, A. Efstratiadis, L. Vasiliades, A. Loukas, S.M. Papalexiou, A. Koukouvinos, I. Tsoukalas, P. Kossieris, 2018. An operational method for Flood Directive Implementation in ungauged urban areas. *Hydrology*, 5(2),24.
- Sarailidis, G., L. Vasiliades and A. Loukas, 2019. Analysis of streamflow droughts using fixed and variable thresholds. *Hydrological Processes*, 33(3), 414-431.
- Stamatatou, N., L. Vasiliades and A. Loukas, 2019. The effect of sample size on bivariate rainfall frequency analysis of extreme precipitation. *Proceedings 2019*, 7(1), 19.
- Papaioannou, G.; Vasiliades, L.; Loukas, A.; Alamanos, A.; Efstratiadis, A.; Koukouvinos, A.; Tsoukalas, I.; Kossieris, P., 2021. A flood inundation modeling approach for urban and rural areas in lake and large-scale river basins. *Water*, 13, 1264.
- Vasiliades, L., I. Mastrafitsis, 2023. A monthly water balance model for assessing streamflow uncertainty in hydrologic studies. *Environmental Sciences Proceedings*, 25(1), 39.
- Vasiliades, L., Papaioannou, G., Loukas, A., 2023. A Unified Hydrologic Framework for Flood Design Estimation in Ungauged Basins. *Environmental Sciences Proceedings* 25(1):40.
- Lyra, A., Loukas, A., Sidiropoulos, P., Vasiliades, L., 2024. Climate Change Impacts on Nitrate Leaching and Groundwater Nitrate Dynamics Using a Holistic Approach and Med-CORDEX Climatic Models. *Water* 16, 465.
- Billios, M., Vasiliades, L., 2024. A Network-Based Clustering Method to Ensure Homogeneity in Regional Frequency Analysis of Extreme Rainfall. *Water* 17, 38.
- Sidiropoulos, P., Papadomanolakis, A., Lyra, A., Mylopoulos, N., & Vasiliades, L., 2025. A Modelling Framework for the Hydraulic Simulation of a Water Distribution System Under Data Scarcity: Application in the City of Farsala, Greece. *Applied Sciences*, 15(11), 6124.
- Iliadis, C., J.P. La Fuente Cusicanqui, P. Galiatsatou, L. Vasiliades, V. Glenis, and C. Kilsby, (2025). Developing Synthetic Storm Drain Networks in urban areas with limited data. Available at SSRN: <http://dx.doi.org/10.2139/ssrn.5940924>.