CURRICULUM VITAE AND ACADEMIC TRACK RECORD

Dr. Konstantinos Kaffas © 0000-0003-1398-4371

EDUCATION	FD	DU	ICA	IT	O	N
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2012–2017 PhD in Engineering Hydrology. Hydraulic Engineering Division, Civil Engineering

Department, Democritus University of Thrace, Xanthi, Greece.

2007–2008 MSc in Hydraulic Engineering. Direction of "Water Resource Management

Works". Civil Engineering Department, Democritus University of Thrace, Xanthi,

Greece.

2001–2007 Diploma and Master (Diploma/Master) in Environmental Engineering.

Environmental Engineering Department, Democritus University of Thrace,

Xanthi, Greece.

WORK EXPERIENCE

March 2024–Present Fixed-term Researcher (RTDA). Department of Science, University Roma Tre,

Rome, Italy.

Research projects: AI4SoilHEalth, Soil-O-Live.

August 2022–July 2023 Postdoctoral Researcher. Department of Agriculture, Food, Environment and

Forestry (DAGRI), University of Florence, Florence, Italy.

Research project: Hydrological response of forested catchments during

droughts.

April 2022—August 2022 Visiting Researcher. Scientific Sector ICAR/02 (Hydrology, Hydraulic and

Maritime Constructions), Faculty of Science and Technology, Free University of

Bozen-Bolzano, Bolzano, Italy.

Research project: Techno-economic methodologies to investigate sustainable

energy scenarios at urban level.

April 2021—March 2022 Postdoctoral Researcher. Scientific Sector ICAR/02 (Hydrology, Hydraulic and

Maritime Constructions), Faculty of Science and Technology, Free University of

Bozen-Bolzano, Bolzano, Italy.

Research project: "BARS, Balancing Alpine reservoir sedimentation, sediment

management practices and ecological impacts".

June 2020–November 2020 Postdoctoral Researcher. Scientific Sector ICAR/02 (Hydrology, Hydraulic and

Maritime Constructions), Faculty of Science and Technology, Free University of

Bozen-Bolzano, Bolzano, Italy.

Research project: "SEDIPLAN-r, Sediment budgeting and planning for rivers in

South–Tyrol: from hazard mitigation to environmental restoration".

June 2019–June 2020 Postdoctoral Researcher. Scientific Sector ICAR/02 (Hydrology, Hydraulic and

Maritime Constructions), Faculty of Science and Technology, Free University of

Bozen-Bolzano, Bolzano, Italy.

Research project: "SEDIPLAN-r, Sediment budgeting and planning for rivers in

South–Tyrol: from hazard mitigation to environmental restoration".

June 2018—June 2019 Postdoctoral Researcher. Scientific Sector ICAR/02 (Hydrology, Hydraulic and

Maritime Constructions), Faculty of Science and Technology, Free University of

Bozen-Bolzano, Bolzano, Italy.

Research project: "MOIEREF, Methods for Optimization and Integration Given

Energy Prices and Renewable Resources Forecasts".

June 2013–June 2014 Research Fellow. Special Account for Research Grants, DUTH. Project title:

"Calculation of Continuous Hydrographs and Sediment graphs in a Basin", Civil Engineering Department, Democritus University of Thrace, Xanthi, Greece.

TEACHING EXPERIENCE

December 2017 Assistant Lecturer by contract, Subjects: Advanced Engineering Hydrology.

Postgraduate Program: "Hydraulic Engineering", Civil Engineering Department,

Democritus University of Thrace.

April—May 2016 Assistant Lecturer by contract, Subjects: Sediment Transport.

Postgraduate Program: "Hydraulic Engineering", Civil Engineering Department,

Democritus University of Thrace.

April—May 2016 Assistant Lecturer by contract, Subjects: Reservoir Design.

May–June 2015 Postgraduate Program: "Hydraulic Engineering", Civil Engineering Department,

March–April 2014 Democritus University of Thrace.

January-February 2014

LIST OF SELECTED PUBLICATIONS

International refereed journals

- 1. **Kaffas, K.**, Pisaturo, G. R., Premstaller, G., Hrissanthou, V., Penna, D., Righetti, M. (2024). Event-based soil erosion and sediment yield modelling for calculating long-term reservoir sedimentation in the Alps. Hydrological Sciences Journal, 69(3): 321–336. https://doi.org/10.1080/02626667.2024.2311756
- 2. **Kaffas, K.**, Pisinaras, V., Al Sayah, M. J., Santopietro, S., Righetti, M. (2021). A USLE-based model with modified LS-factor combined with sediment delivery module for Alpine basins. Catena, 207: 105655. https://doi.org/10.1016/j.catena.2021.105655
- 3. Borrelli, P., Alewell, C., Alvarez, P., ..., **Kaffas, K.**, ..., Panagos, P. (2021). Soil erosion modelling: A global review and statistical analysis. Science of the total environment, 780: 146494. https://doi.org/10.1016/j.scitotenv.2021.146494
- 4. Bezak, N., Mikoš, M., Borrelli, P., ..., **Kaffas, K.**, ..., Panagos, P. (2021). Soil erosion modelling: A bibliometric analysis. Environmental research, 197: 111087. https://doi.org/10.1016/j.envres.2021.111087
- 5. Folegot, S., Bruno, M.C., Larsen, S., **Kaffas, K.**, Pisaturo, G.R., Andreoli, A., Comiti, F., Righetti, M. (2021). A functional approach to evaluate the effects of sediment flushing on macroinvertebrate communities in Alpine streams. Hydrobiologia, 848: 3921–3941. https://doi.org/10.1007/s10750-021-04608-8
- 6. **Kaffas, K.**, Hrissanthou, V., Sevastas, S. (2018). Modeling hydromorphological processes in a mountainous basin using a composite mathematical model and ArcSWAT. Catena, 162: 108-129. https://doi.org/10.1016/j.catena.2017.11.017
- 7. **Kaffas, K.**, Hrissanthou, V. (2015). Estimate of continuous sediment graphs in a basin, using a composite mathematical model. Environmental Processes, 2: 361-378. https://doi.org/10.1007/s40710-015-0069-3
- Kaffas, K., Hrissanthou, V. (2014). Application of a continuous rainfall-runoff model to the basin of Kosynthos river using the hydrologic software HEC-HMS. Global NEST Journal, 16(1): 188-203. https://doi.org/10.30955/gnj.001200