

## Personal Information

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**Name:** Ioanna  
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**Web of Science  
Researcher ID:** PHO-1663-2026

## Education

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- ❖ **PhD in Water Resources Engineering (NTUA)**  
School of Rural Surveying and Geoinformatics Engineering, National Technical University of Athens, Department of Infrastructure and Rural Development, Laboratory of Reclamation Works and Water Resources Management (Dec 2017–Jul 2025).  
*PhD Dissertation title:* “Flood Flow Simulation Integrating Remote Sensing Techniques”
- ❖ **MSc in Water Resources Science and Technology (NTUA)**  
Interdisciplinary Postgraduate Programme, National Technical University of Athens  
Specialization: Hydrology and Environmental Water Resources Management (Nov 2017)  
Final Grade: **8.75 / 10 (Very Good)**.  
*Master’s Thesis: Comparative assessment of seven water quality indices (WQIs) based on measurements from surface water systems in Greece*  
Thesis Grade: **10 / 10**.
- ❖ **Diploma in Rural and Surveying Engineering (NTUA)**  
School of Rural, Surveying and Geoinformatics Engineering, National Technical University of Athens, Department of Infrastructure and Rural Development,  
Laboratory of Reclamation Works and Water Resources Management (Jul 2015)  
Final Grade: **7.10 / 10 (Very Good)**.  
*Diploma Thesis: Assessment of the Water Footprint of Crops in the area of Mesogeia (Greece)*  
Thesis Grade: **10 / 10**.

## Languages

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- ❖ **English:** Proficient user – C2 level (*Certificate of Proficiency in English, University of Michigan*)
- ❖ **French:** Proficient user – C2 level (*Diplôme Approfondi de Langue Française – DALF C2*)

## Computer Skills

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- ❖ Programming Languages: MATLAB
- ❖ Software: MS Office, AutoCAD, ArcGIS, QGIS, HEC-HMS, HEC-RAS, HEC-RAS 2D, surfer, MODFLOW, SNAP (Sentinel Application Platform), ERMAPPER

## Awards, Distinctions and Scholarships

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**[2025] Praxitelis Argyropoulos Award from the Academy of Athens**, for the authorship of an original theoretical or laboratory study in the fields of Hydraulics or Hydrology, awarded for the paper:

*“Assessment of the predictive performance of 1D/2D, fully 2D and coarse-resolution 2D HEC-RAS models by integrating different evaluation metrics and SAR-derived flood boundary information”*

**[2018-2022] Doctoral Scholarship from the Special Account for Research Funding (E.L.K.E.)** of National Technical University of Athens, for the PhD thesis entitled: *“Flood Flow Simulation Integrating Remote Sensing Techniques»*.

**[2021] “D. Thomaidi” Award from National Technical University of Athens** for the conference paper:

Pavlidis G., Zotou I., Karasali H., Marousopoulou A., Bariamis G., Tsihrintzis V.A., Nalbantis I. (2021). Evaluation of the efficiency of constructed floating wetlands in the removal of agrochemicals, *In Proceedings of the Eighth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2021) and SECOTOX Conference*, 20-24 July 2021, Thessaloniki, Greece

**[2020] “D. Thomaidi” Award from National Technical University of Athens** for the research paper:

Zotou I., Bellos V., Gkouma A., Karathanassi V., Tsihrintzis V.A. (2020). Using Sentinel-1 Imagery to Assess Predictive Performance of a Hydraulic Model, *Water Resources Management*, 34(14):4415-30, <https://doi.org/10.1007/s11269-020-02592-7>

**[2019] “D. Thomaidi” Award from National Technical University of Athens** for the research paper:

Zotou I., Tsihrintzis V.A., Gikas G.D. (2019). Performance of Seven Water Quality Indices (*WQIs*) in a Mediterranean River, *Environmental Monitoring and Assessment*, 191(8):505, <https://doi.org/10.1007/s10661-019-7652-4>

**[2018] OIKOPOLIS Award 2018 from ECOCITY non-profit organization**, awarded for the M.Sc. thesis *“Comparative Evaluation of Seven Water Quality Indices (WQIs) Based on Measurements from Surface Water Systems in Greece”*, in the category “Postgraduate Thesis on Water”

**[2017] “D. Thomaidi” Award from National Technical University of Athens** for the research paper:

Zotou I., Tsihrintzis V.A. (2017). The Water Footprint of Crops in the Area of Mesogeia, Attiki, Greece, *Environmental Processes*, 4(1): 63-79. <https://doi.org/10.1007/s40710-017-0260-9>

## Professional Experience – Participation in Research Projects

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- ❖ **01/04/2024-Present:** Participation in the operational program “PEKA-OPY” titled: *“Monitoring and Recording of the Status (Quality, Quantity, Pressures, Use) of Water Resources in Greece during the Programming Period 2021–2027”*.

Responsibilities: Performing hydraulic and hydrological simulations to study and document hydromorphological alterations in rivers; inputting data into specialized databases according to project deliverables; participation in the preparation of technical and evaluation reports

- ❖ **01/01/2024-31/03/2024:** Participation in the research project “NISOS”. Main tasks involved the development of water balances at island scale, processing of hydrological and meteorological time series for the investigation and identification of climatic trends, and flood hazard assessment using GIS-based techniques
- ❖ **06/03/2023-31/12/2023:** Participation in the operational program “*Monitoring and Recording of the Status (Quality, Quantity, Pressures, Use) of Water Resources in Greece – YMEPERAA OPY*”.  
Responsibilities: Hydraulic and hydrological modeling for the study and documentation of hydromorphological river alterations; data entry into project-specific databases; report writing and data assessment.
- ❖ **01/03/2023-31/03/2023:** Participation in the research project: “*NEXOGENESIS: Facilitating the next generation of effective and intelligent water related policies utilizing artificial intelligence and reinforcement learning to assess the water energy food=ecosystem (WEFE) nexus*”.
- ❖ **01/04/2022-30/04/2022:** Participation in the research project: “*Provision of consultancy services regarding hydraulic and flood protection issues for photovoltaic (PV) plants with total capacity of 960MW, in the area of the Public Power Corporation (PPC) lignite mine in Ptolemaida, Western Macedonia Lignite Center (WMLC)*”.
- ❖ **01/01/2022-31/01/2022:** Participation in the research project: “*Provision of consultancy services regarding hydraulic and flood protection issues for photovoltaic (PV) plants with total capacity of 940MW, in the area of the PPC lignite mine in Amynteo, Western Macedonia Lignite Center (WMLC)*”.
- ❖ **07/2020-11/2021:** Participation in the research project: “*Investigation of the Efficiency of Natural Treatment Systems for the Removal of Agricultural Pesticides and Fertilizers*”, under the Action “*Support for Researchers with Emphasis on Young Researchers – Cycle B*” (Project Code: EDBM103).

## **Academic and Professional Activities**

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- ❖ Licensed to practice as a Rural and Surveying Engineer in Greece.
- ❖ Member of the Technical Chamber of Greece (TEE) since June 2022.
- ❖ Member of the European Water Resources Association (EWRA).
- ❖ Member of the Hellenic Committee for Water Resources Management (EEDYP).

## **Research Interests**

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Water resources management, hydrology, flood modelling, hydrologic-hydraulic simulation, climate change, GIS applications, integration of remote sensing in flood modelling

## Volunteer Work

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**2018 - Present:** Reviewer for international peer-reviewed journals:

- Environmental Processes

**2022:** Participation in the organization of the 7th *IAHR Europe Congress*, 7–9 September 2022, Athens.

**2015:** Participation in the organization of the *3rd Joint Conference of Hellenic Hydrotechnical Association (HHA) - Greek Committee for Water Resources Management (EEDYP) - Hellenic Water Association (HWA) titled "Integrated Water Resources Management in the New Era"*, 10–12 December 2015, Athens, NTUA.

## Citations (as of 03/02/2026)

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Google Scholar: Publications = 18, Citations = 436, h-Index = 9

Scopus: Publications = 14, Citations = 264, Excluding self-citations= 231, h-Index = 7

## Publications in Peer-Reviewed Scientific Journals:

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1. Matiatos, I., Dimitriou, E., Papadopoulos, A., Lazogiannis, K., Skoulikidis, N. T., Karaouzas, I., Vardakas, L., Lagogiannis, S., **Zotou, I.**, Paraskevopoulou, V. Boeckx, P. (2025). Dual use of isotopic and environmental proxy approaches to trace nitrate sources and biogeochemical pathways in an agro-industrially influenced river basin. *Science of the Total Environment*, 1005, 180863. <https://doi.org/10.1016/j.scitotenv.2025.180863>
2. Kourtis, I. M., Perdikaki, M., Zacharakis, I., **Zotou, I.**, Vangelis, H., Kallioras, A., Tsihrintzis, V.A. (2025). An online tool and open database for curve number (CN) data retrieval in Europe used for estimating runoff from precipitation events. *Environmental Earth Sciences*, 84(21), 650. <https://doi.org/10.1007/s12665-025-12637-y>
3. **Zotou, I.**, Bellos, V., Tsihrintzis, V. A. (2025). Calibration framework for complex 2D hydrodynamic models: Use of satellite-derived flood extent and water depth data, and evaluation with various performance metrics. *Advances in Water Resources*, 105066. <https://doi.org/10.1016/j.advwatres.2025.105066>
4. **Zotou, I.**, Bellos, V., Tsihrintzis, V. A. (2025). Assessment of the predictive performance of 1D/2D, fully 2D and coarse-resolution 2D HEC-RAS models by integrating different evaluation metrics and SAR-derived flood boundary information. *International Journal of River Basin Management*, 1-20. <https://doi.org/10.1080/15715124.2025.2490293>
5. Matiatos, I., Papadopoulos, A., Harjung, A., Vystavna, Y., Lazogiannis, K., Rossi, P. M., Heiderscheidt, E., Mentzafou, A., **Zotou, I.**, Dimitriou, E. (2025). Water dynamics and

- evaporation losses to inflows into transboundary Mediterranean lakes – the case of Prespa Lakes. *Hydrological Sciences Journal*, 70(4), 611–627. <https://doi.org/10.1080/02626667.2024.2446279>
6. Dimitriou, E., Efstratiadis, A., **Zotou, I.**, Papadopoulou, A., Iliopoulou, T., Sakki, G.K., Mazi, K., Rozos, E., Koukouvinos, A., Koussis, A.D., Mamassis, N., Koutsoyiannis, D. (2024). Post-analysis of Daniel extreme flood event in Thessaly, Central Greece: Practical lessons and the value of state-of-the-art water-monitoring networks. *Water*, 16(7), 980. <https://doi.org/10.3390/w16070980>
  7. Pavlidis, G., **Zotou, I.**, Karasali, H., Marousopoulou, A., Bariamis, G., Nalbantis, I., Tsihrintzis, V.A. (2022). Experiments on Pilot-Scale Constructed Floating Wetlands Efficiency in Removing Agrochemicals, *Toxics*, 10(12), 790. <https://doi.org/10.3390/toxics10120790>
  8. **Zotou, I.**, Karamvasis, K., Karathanassi, V., Tsihrintzis, V.A. (2022). Potential of Two SAR-Based Flood Mapping Approaches in Supporting an Integrated 1D/2D HEC-RAS Model, *Water*, 14(24), 4020. <https://doi.org/10.3390/w14244020>
  9. Vangelis, H., **Zotou, I.**, Kourtis, I.M., Bellos, V., Tsihrintzis, V.A. (2022). Relationship of Rainfall and Flood Return Periods through Hydrologic and Hydraulic Modeling. *Water*, 14(22), 3618. <https://doi.org/10.3390/w14223618>
  10. Pavlidis, G., **Zotou, I.**, Karasali, H., Marousopoulou, A., Bariamis, G., Tsihrintzis, V.A., Nalbantis, I. (2021). Performance of Pilot-scale Constructed Floating Wetlands in the Removal of Nutrients and Pesticides, *Water Resources Management*, 1-18. <https://doi.org/10.1007/s11269-021-03033-9>
  11. **Zotou, I.**, Bellos, V., Gkouma, A., Karathanassi, V., Tsihrintzis, V.A. (2020). Using Sentinel-1 Imagery to Assess Predictive Performance of a Hydraulic Model, *Water Resources Management*, 34(14), 4415-30. <https://doi.org/10.1007/s11269-020-02592-7>
  12. **Zotou, I.**, Tsihrintzis, V.A., Gikas, G.D. (2020). Water quality evaluation of a lacustrine water body in the Mediterranean based on different water quality index (WQI) methodologies, *Journal of Environmental Science and Health, Part A*, 55(5), 537-548. <https://doi.org/10.1080/10934529.2019.1710956>
  13. **Zotou, I.**, Tsihrintzis, V.A., Gikas, G.D. (2019). Performance of Seven Water Quality Indices (WQIs) in a Mediterranean River, *Environmental Monitoring and Assessment*, 191(8), 505. <https://doi.org/10.1007/s10661-019-7652-4>

14. **Zotou, I.**, Tsihrintzis, V.A., Gikas, G.D. (2018). Comparative Assessment of Various Water Quality Indices (WQIs) in Polyphytos Reservoir-Aliakmon River, Greece, *Proceedings MDPI*, 2(11), 611. <https://doi.org/10.3390/proceedings2110611>
15. **Zotou I.**, Tsihrintzis V.A. (2017). The Water Footprint of Crops in the Area of Mesogeia, Attiki, Greece, *Environmental Processes*, 4(1): 63-79. <https://doi.org/10.1007/s40710-017-0260-9>

### **Peer-Reviewed Conference Proceedings:**

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1. Kourtis, I.M., Perdikaki, M., **Zotou, I.**, Vangelis, H., Kallioras, A., Tsihrintzis, V.A. CN-panEU: Development of a pan-European Curve Number (CN) dataset, *In Proceedings of the 12th World Congress on Water Resources and Environment (EWRA 2023) "Managing Water-Energy-Land-Food under Climatic, Environmental and Social Instability"*, 27 June - 1 July 2023, Thessaloniki, Greece
2. Kourtis, I.M., Bellos, V., **Zotou, I.**, Vangelis, H., Tsihrintzis, V.A. (2022). Point-to-pixel comparison of a satellite and a gauge -based Intensity-Duration- Frequency (IDF) curve: The case of Karditsa, Greece, *In Proceedings of the 7th IAHR Europe Congress*, 7– 9 September 2022, Athens, Greece
3. **Zotou, I.**, Karamvasis, K., Karathanassi, V., Tsihrintzis, V.A. (2022). Investigating the sensitivity of a coupled 1D/2D HEC-RAS model in the variation of different parameters exploiting Sentinel-1-derived flood map, *In Proceedings of the 7th IAHR Europe Congress*, 7– 9 September 2022, Athens, Greece
4. Pavlidis, G., **Zotou, I.**, Karasali, H., Marousopoulou, A., Bariamis, G., Tsihrintzis, V.A., Nalbantis, I. (2021). Evaluation of the efficiency of constructed floating wetlands in the removal of agrochemicals, *In Proceedings of the Eighth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2021) and SECOTOX Conference*, 20-24 July 2021, Thessaloniki, Greece
5. Gkouma, A., **Zotou, I.**, Bellos, V., Karathanassi, V., Tsihrintzis, V.A. (2019). Evaluating the performance of a hydrodynamic model using SAR images, *In Proceedings of 11th World Congress of EWRA "Managing Water Resources for a Sustainable Future"*, 25-29 June 2019, Madrid, Spain, 425-426.
6. **Zotou, I.**, Tsihrintzis, V.A., Gikas, G.D. (2018). Comparative Assessment of Various Water Quality Indices (WQIs) in Polyphytos Reservoir-Aliakmon River, Greece, *In*

*Proceedings of the 3rd EWaS International Conference on “Insights on the Water-Energy-Food Nexus”, 27-30 June 2018, Lefkada Island, Greece.*

7. **Zotou, I.**, Alexakis, D., Tsihrintzis, V.A. (2015). Estimation of the Water Footprint of Crops in the Region of Mesogeia. *In Proceedings of the 3rd Joint Conference of Hellenic Hydrotechnical Association (HHA)-Greek Committee for Water Resources Management (EEDYP)-Hellenic Water Association (HWA) "Integrated Water Resources Management in the New Era"*, 10–12 December, Athens, NTUA, pp. 843–856 (in Greek).