

# Curriculum Vitae (CV)

PERSONAL INFORMATION Melike Kiraz Safari

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## OUTLOOK

My primary research focus is centered around addressing the challenges related to planning and managing the sustainable provision of water for societies. I aim to achieve this by employing modelling techniques and gaining a deep understanding of the processes involved in large-sample hydrology. Through my work, I aspire to support decision-makers in developing comprehensive and coherent strategies for sustainable water management that cater to the needs of both society and the environment. By combining my expertise in hydrological modelling and a holistic approach to water resource management, I strive to contribute to the development of effective and sustainable solutions in this field.

## EDUCATION

- 09/2018 – 10/2023    Doctor of Philosophy – Civil Engineering  
University of Bristol, Bristol (United Kingdom)
- Thesis Title: Addressing the Challenges of Catchment Characterisation, Model Selection and Evaluation in Large-Sample Hydrology: Application to Great Britain
- 09/2016 – 08/2018    Master Degree - Graduate School of Applied Sciences -  
Department of Environmental Engineering  
Middle East Technical University, Ankara (Turkey)
- Thesis Title: Sustainable Water and Stormwater Management for METU Campus
- 09/2011 – 06/2016    Bachelor Degree - Environmental Engineering  
Middle East Technical University, Ankara (Turkey)
- Key Modules: Environmental Engineering Chemistry Lab, Thermodynamics, Environmental Microbiology, Water Supply and Urban Drainage, Water Quality Management, Treatment Disposal of Water Wastewater Sludge

## WORK EXPERIENCE

01/2024 – Present	Assistant Professor Bogazici University, İstanbul (Türkiye) - Institute of Environmental Sciences
10/2019 – 01/2021	Graduate Teaching Assistant University of Bristol, Bristol (United Kingdom) - Department of Civil Engineering
09/2013 – 03/2018	Project Assistant Middle East Technical University, Ankara (Türkiye) - Department of Environmental Engineering
08/2015 – 09/2015	Intern Engineer Turkish Scientific and Technological Research Council (TUBITAK) (Türkiye)
06/2014 – 07/2014	Intern Engineer ICDAS Iron - Steel Industry Inc. (Türkiye)

## SKILLS

Software	Microsoft, ArcMap, WEAP, SWAT, SWMM
Programming	MATLAB (proficient)
Machine Learning	Regression, Rainfall-runoff modelling, Monte-Carlo simulation
Communication	Academic writing, figures, presentations, posters

## PUBLICATIONS

Published	<p>Alp, E., Erdoğan, E. K. and Kiraz, M. (2022). The NEXUS graduate. In Zamel, D., Constantianos, V., Gawlik, B., Lapidou, C., Abadi, A., Easton, P., Berman, R., Kazezyilmaz-Alhan, C., Głowacka, N., Elelman, R., (Eds.), The gateway to the future of the Mediterranean – Water, energy, food and the environment. (pp. 138-139). Publications Office of the European Union. <a href="https://data.europa.eu/doi/10.2760/38718">https://data.europa.eu/doi/10.2760/38718</a></p> <p>Kiraz, M., Coxon, G. and Wagener, T. (2023). A priori selection of hydrological model structures in modular modelling frameworks: Application to Great Britain. <i>Hydrological Sciences Journal</i>. DOI: <a href="https://doi.org/10.1080/02626667.2023.2251968">10.1080/02626667.2023.2251968</a></p> <p>Kiraz, M., Coxon, G. and Wagener, T. (2023). A signature-based hydrologic efficiency metric for model calibration and evaluation in gauged and ungauged catchments. <i>Water Resources Research</i>. DOI: <a href="https://doi.org/10.1029/2023WR035321">10.1029/2023WR035321</a></p>
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## ADDITIONAL INFORMATION

- Honors and awards
- Honor Student as ranked 2<sup>nd</sup> amongst 71 students in the Bachelor of Science degree, METU Environmental Engineering Department, 06/2016
  - Best 2<sup>nd</sup> Design of METU Environmental Engineering Department Dissertation - Bolu Gerde OIZ Treatment Plant Design, 06/2016
  - 1<sup>st</sup> Prize of German Water Partnership Award Turkey 2016 - Sustainable Water Management and the Water-Energy Nexus in Middle East Technical University, 10/2016
- Projects
- Preparation of Sludge Management Plan and Action Plan in Turkey, Ministry of Environment and Urbanization, 2016-2019, Principal Investigator: Prof. Dr. Dilek Sanin
  - A Green Campus Application: Sustainable Stormwater Management in METU Campus, METU Research Fund (Project No: BAP - 08 - 1- KB2014K120600-2), 2014-2016, 47,000 TL, Principal Investigator: Assoc. Prof. Dr. Emre Alp
  - Evaluation of Agricultural Diffuse Pollution and its Control Alternatives with SWAT model in Lake Mogan Watershed, The Scientific and Technological Research Council of Turkey (Project No: 1 1Y284), 2012-2014, \$78,000, Principal Investigator: Assoc. Prof. Dr. Emre Alp
  - Water Quality Evaluation and Determination of Pollution Load Discharging into Lake Mogan, METU Research Fund (Project No: BAP-08-12013-008), 2013-2014, 20,000 TL, Principal Investigator: Assoc. Prof. Dr. Emre Alp
- Conferences
- IWA Balkan Young Water Professionals, 05/2015, Thessaloniki, Greece
  - The 6<sup>th</sup> Turkish-German Water Partnership-Day, 10/2016, Mersin, Turkey
  - EGU General Assembly, 04/2019, Vienna, Austria
  - Vienna Catchment Science Symposium, 04/2019, Vienna, Austria
  - EGU General Assembly, 05/2021, Online
  - Nordic Hydrologic Conference, 08/2022, Tallinn, Estonia
- Teachings
- Assisted as Teaching Assistant in module Scheme Design 3, 10/2019
  - Assisted with marking MATLAB in module Numerical Methods, 10/2019
  - Assisted as Teaching Assistant in module Water Resources Project 3, 10/2020