

Sait Mutlu KARAHAN***Ph.D. Researcher***

Ghent University, Bioscience Engineering
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**EDUCATION:**

- **Ghent University (UGent), Belgium**, Ph.D. in Department of Bioscience Engineering (Mathematical Modeling) (02/23 – present)
- **İzmir Institute of Technology (IYTE), Turkey**, Ph.D. in Department of Civil Engineering (Hydromechanics and Water Resources) (12/22 – present) **GPA:4.0/4.0**
- **İzmir Institute of Technology (IYTE), Turkey**, MSc in Department of Civil Engineering (Hydromechanics and Water Resources) (09/18 – 12/22) **CGPA:3.79/4.0**
- **İzmir Institute of Technology (IYTE), Turkey**, BSc in Department of Civil Engineering (09/13 – 07/18) **CGPA:3.38/4.0**
- **Bialystok University of Technology (Erasmus), Poland**, BSc in Department of Civil Engineering (02/17 – 07/17) **GPA:4.0/4.0**

* The language of instruction in all the education programs I have taken is English.

EXPERIENCE:

- **PhD Researcher: Bioscience Engineering: Mathematical Modelling**, Ghent University, UGent, Gent, Belgium (02/2023 - present)
- **Research and Teaching Assistant:** Department of Civil Engineering, Izmir Institute of Technology, IYTE, Izmir, Turkey (05/2019 - 02/2023)

Assisted Courses: CE 272 - Fluid Mechanics

CE 471 - Water Resources Management

RESEARCH AREA OF INTEREST:

Integrated Water Resources Management, River Basin Processes and Management, Mathematical Modeling, Data Science, Water Quality

SOFTWARE & COMPUTER KNOWLEDGE:

Microsoft Office Applications, Water Evaluation and Planning Program (WEAP), QGIS ,GIS, AutoCAD, MATLAB, Python, R, ProtaStructure

THESIS PUBLISHED IN MASTER'S GRADUATE:

Karahan, S.M., Simulation of Water Resources of Tahtalı-Seferihisar Sub-Basin Based on a WEAP Model, 13 December 2022, Izmir, Turkey

PUBLICATIONS IN PEER-REVIEWED SCIENTIFIC JOURNALS:

1. Karahan, S.M., Elçi Ş., Assessment of Future Water Demand in a Semi-Arid Region of Turkey: a Case Study of Tahtalı-Seferihisar Basin, Sustainable Water Resources Management (2023), <https://doi.org/10.1007/s40899-023-00817-2>

PUBLICATIONS IN INTERNATIONAL/NATIONAL PEER-REVIEWED CONFERENCE PROCEEDINGS:

2. Bilgiç, E., Karahan, S.M., Erdem, T.K., Ersöz, H. Effects of Fly Ash Aggregate on the Rheology and Compressive Strength of Self-Consolidating Concrete, Proceedings of 13th International Congress on Advances in Civil Engineering, 12-14 September 2018, Izmir, Turkey
3. Karahan, S.M., Elçi Ş., Simulation of Water Resources of Tahtalı-Seferihisar Sub-Basin Based on a WEAP Model, Proceedings of 14th International Conference on Hydrosience and Engineering, 26-27 May 2022, Izmir, Turkey, ISBN: 978-975-6590-19-5, 547-550

AWARDS AND HONORS:

- 14th ICHE (International Conference on Hydrosience and Engineering) Student Competition – Award for Outstanding Master’s Student Paper Award- Ranked 1st
- 2015-2016 Fall Semester **IZTECH Certificate of Honor**
- 2015-2016 Spring Semester **IZTECH Certificate of Honor**
- 2016-2017 Fall Semester **IZTECH Certificate of High Honor**
- 2016-2017 Spring Semester **IZTECH Certificate of High Honor**
- 2017-2018 Fall Semester **IZTECH Certificate of High Honor**
- 2017-2018 Spring Semester **IZTECH Certificate of High Honor**

ADDITIONAL CERTIFIED ONLINE COURSES:

- Sustainable Urban Development from **Delft University & Wageningen University**
- Water Resources Management and Policy from **University of Geneva**
- Modelling Watershed Processes for Water Resource Management from **Queen's University**
- Introduction to Sustainability from **University of Illinois at Urbana-Champaign**
- Introduction to Sustainability and Development from **Deakin University**
- Agriculture, Economics, and Nature from **The University of Western Australia**
- Global Environmental Management from **Technical University of Denmark**
- How to Write and Publish a Scientific Paper (Project-Centered Course) from **École Polytechnique**