

Seyed Mojtaba Mirkatouli

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Education

B.Sc. in Civil Engineering, K. N. Toosi University of Technology 2021 - Present
GPA: 15.55/20 (7th semester)

Research Interests

- Wetland Modeling
- Hydrodynamic Modeling
- Hydraulic Engineering
- Coastal Engineering
- Climate Change Impact on Water Systems

Work Experience

Research Assistant 2022 - Present

SHENS Research Group, Iran

- Conducting research on the Delaware Bay coast under the supervision of Dr. Alizad. Training new members on software relevant to the group's projects. Collaborating with team members on data collection and analysis.

Webinar Support Team Member 2022 - Present

Water Webinars Group, Iran

- Assisted in organizing and conducting webinars for the Water Webinars Group. Provided technical support and backup during live sessions to ensure smooth operations. Collaborated with team members to prepare webinar materials and handle participant inquiries.

Teaching Assistant - Statics Course 2022 - 2023

Assisted teaching the Statics course, K. N. Toosi University of Technology, Dr. Barani

- Conducted multiple class sessions, delivering lectures and facilitating discussions on core concepts of Statics. Graded midterm exams, evaluated homework assignments, providing detailed feedback to enhance student understanding and learning outcomes.

Head Barista

2022 - 2023

Lavetza Cafe, Iran

- Managed both hot and cold beverage bars. Oversaw daily operations and ensured high-quality customer service. Trained and supervised junior baristas. Developed and implemented new drink recipes.

Award & Honors

- 2010: Second place in the National Karate Championship (Children Level)
- 2012 & 2013: First place in the Iranian National Karate Team Selection (Minors Level)
- 2013: Participated in the Karate World Cup and achieved fifth place (Minors Level)
- 2013: Earned Black Belt in Karate
- 2014: Second place in the National Karate Team Selection (Minors Level)
- 2015: First place in the National Karate Team Selection (Junior Level)
- 2015: Fourth place in the Premier League (Karate team competition)
- 2018: First place in the National Karate Team Selection (Seniors Level).

Technical & Research Experience

- Hydrodynamic Modeling Research, Currently developing a hydrodynamic model for the southwest coast of New Jersey.
- Open-Channel Hydraulics Class (Undergraduate), Performed a group study on a specific research paper and its methodology. Presented the findings to the class, including a detailed HEC-RAS file demonstration.

English

- Intermediate level

Computer Skills

- Operating Systems and General Software:
 - Proficient in Windows
 - Expert in Microsoft Office Suite (Word, PowerPoint, Excel, MSP)
 - Skilled in OBS.
- Specialized Software:
 - QGIS and ArcGIS
 - Aquaveo SMS and AutoCAD
 - GeoStudio and Plaxis
- Programming Languages:
 - Python