### ssafari@umd.edu, safoora.safari73@gmail.com

## Safoura Safari

 $\triangle$ 

in

Safoura Safari

#### Education

P.h. D. candidate in Disaster Resilience Center – Department of Civil and Environmental Engineering University of Maryland, College Park – MD (GPA = 3.93/4)

Jun 2023 - Present

### M.Sc., Water Resources Engineering and Management - Department of Civil Engineering

University of Tehran - Tehran, Iran (GPA: 17.88/20)

Sep 2018 ~Aug 2021

Thesis:

Developing a Market-based Model for Groundwater Allocation using a Remote Sensing Method [Supervisors: Dr. Reza Kerachian, Dr. Hamideh Noory]

### **B.Sc.**, Department of Civil Engineering

Isfahan University of Technology - Esfahan, Iran (GPA: 15.45/20) Sep  $2013 \sim Aug~2017$ .

#### **Publication**

- Safari, S., Kerachian, R., Noory, H., Sharghi, S. (2023). A market-based mechanism for long term groundwater reallocation Using remotely sensed data, *Journal of Environmental Management* (Published)
- Shargi, S., Kerachian, R., Safari, S., (2023). Market-based Groundwater Resources Management Considering the Uncertainty of Water Consumption Monitoring. *Modares Civil Engineering Journal* (Published)
- Abbasi, D., Safari, S., Reilly, A.C., (2024). Exploring Machine Learning Approaches for Evaluating the Adaptive Capacity of School Districts in the Face of Hurricane-Induced School Closures. *Natural Hazards*, (Ready to submit)
- Abbasi, D., Safari, S., Reilly, A.C., (2024). Data on hurricane-induced unplanned school closures in the East and Gulf Coast of the US, Data in Brief, (Ready to Submit)

# Ongoing research projects

- Exploring **Equity** in Usage Patterns of EV Charging Stations: An In-Depth Analysis of Daily, Monthly, and Seasonal Port Utilization in the United States
- Nationwide Analysis of EV charging behavior Using Machine Learning Techniques
- Progressive Clean Technology Adoption for Carbon Emission Reduction: A County-Level Analysis in the United States with a Case Study of Maryland state
- Equity in D.C. Public School Maintenance: Pattern Analysis on Socioeconomic, Demographic Factors, and Work Order requests.
- EV Charging Station Accessibility and Usage During Extreme Weather Events: Insights from Hurricane

Safoura Safari Page 2 of 3

### Awards and Honors

- WTS DC Chapter Graduate Scholarship Recipient, Fall 2024
- WTS International Helene M. Overly Memorial Graduate Scholarship Nominee, Fall 2024
- Dean's Fellowship, University of Maryland, College Park, Fall 2024
- NSF NHERI Computational Academy Travel Grant Recipient, NSF Natural Hazards Engineering Research Infrastructure (NHERI), July 2024
- Ranked 2<sup>nd</sup> in the M.Sc. cohort of 2018, Civil Engineering Water Resource Engineering and Management Program, University of Tehran.
- Ranked 128th among over 15,000 participants in the Nationwide Entrance Exam for M.Sc. in Civil
- Engineering group, 2018.
- (2013 ~ 2017)
- Ranked among top 1000 in the Nationwide University Entrance Exam with over 280,000 participants, 2013.
- Ranked 1<sup>st</sup> among 50 in the National Astronomy Observatory Contest, Tehran, Iran, 2012.

### Teaching Experiences

- Mentorship experience: University of Maryland, College Park (June 2023-present)
  - Mentoring undergraduate students for the project:
     Progressive Technology Adoption for Carbon Emission Reduction: A County-Level Analysis in the United States with a Case Study of Maryland state
     [Supervisors: Dr. Jiehong Lou; Prof. Deb Niemeier]
- Teaching Assistant: University of Tehran, Department of Civil and Environmental Eng., Tehran, Iran.
  - 1. Water Quality Management: (Jan 2020 ~ June 2020)

[Supervisor: Prof. Reza Kerachian]

[Supervisor: Prof. Reza Kerachian]

2. Environmental Management and Sustainable Development: (Sep 2020 ~ Dec 2020)

NSF NHERI Graduate Student Council (GSC) Treasurer (October 2024 ~ Present)

# Work Experience and collaboration

- <u>Member of Graduate Student Council</u> of NSF Natural Hazard Engineering Research Infrastructure (NHERI), (April 2024 ~ Present)
- Internship: Foolad Technic International Engineering Company, Isfahan, Iran (June 2017 ~ Sep 2017)
- [Responsibility: Structural Designer]
- <u>Social Activity</u>: Students Guild Council, Isfahan University of Technology- Isfahan, Iran (Sep 2013 ~ Aug
   2017) Responsibility: Head of Executive Team
- Member of Indoor Soccer (Futsal) Team, Isfahan, Iran (2015 ~ 2017)
- Member of Local Astronomy Non-government Organization, Isfahan, Iran (2012 2016)

Safoura Safari Page 2 of 3

# Software and Technical Skills

- Hydrologic Modeling: HEC-HMS, MODFLOW, GMS, Water GEMs
- Remote Sensing Analysis: ENVI, Image processing tools in MATLAB
- **Programming Language:** MATLAB, Phyton, R
- Data Assimilation and Mining Techniques: Remote Sensing, Genetic Algorithm, Artificial Neural Network, Supervised and unsupervised machine learning
- Spatial Analysis: ArcGIS, QGIS, AutoCAD, Civil3D
- Statistical Analysis: Minitab, Monte Carlo, ArcGIS
- Other Engineering Software: Expert Choice, Ref\_ET, CropWat