

EDUCATION

Ph.D., University of Georgia, GA, USA.

Expected 2027

Graduate Teaching Assistant/ Department of Georgraphy.

M.Sc., University of Tehran, Tehran, Iran.

2020

Master of Water Resources Engineering

Thesis: Development of an Urban Runoff Management Model by Remoted Sensing Precipitation Data in using LID Systems under Climate Change Condition

B.Sc., Ferdowsi University of Mashhad, Mashhad, Iran.

2012

Bachelor of Water Engineering

RESEARCH INTERESTS

• Hydrology, Stormwater Management, Climate Change Mitigation, Remote Sensing data analysis, Coastal wetland, Blue Carbon monitoring, Machine-learning Methods, Optimization Algorithms, Reservoir Operation, and Water Quality Modeling.

PUBLICATIONS

• Selahvarzi, M., Naghedifar, S. M., **Oliazadeh, A.**, & Loáiciga, H. A. (2024). Hierarchical pseudo-continuous machine-learning-based pedotransfer models for infiltration curves: An investigation on the role of regularization and ensemble modeling. *Journal of Hydrology*, 132459.

<https://doi.org/10.1016/j.jhydrol.2024.132459>

• **Oliazadeh, A.**, Bozorg-Haddad, O., Pakdaman, M., Baghbani, R., & Loáiciga, H. A. (2022). Optimal merging of multi-satellite precipitation data in urban areas. *Theoretical and Applied Climatology*, 147(3), 1697-1712. <https://doi.org/10.1007/s00704-021-03895-4>

• **Oliazadeh, A.**, Bozorg-Haddad, O., Mani, M., & Chu, X. (2021). Developing an urban runoff management model by using satellite precipitation datasets to allocate low-impact development systems under climate change conditions. *Theoretical and Applied Climatology*, 146(1), 675-687.

<https://doi.org/10.1007/s00704-021-03744-4>

• Arefinia, A., Bozorg-Haddad, O., **Oliazadeh, A.**, & Loáiciga, H. A. (2020). Reservoir water quality simulation with data mining models. *Environmental Monitoring and Assessment*, 192(7), 1-13.

<https://doi.org/10.1007/s10661-020-08454-4>

Book Chapters:

• **Oliazadeh, A.**, Bozorg-Haddad, O., Loáiciga, H.A., Ahmad, S., Singh, V.P. (2022). The Effect of Climate Change on Water Resources. *Climate Change in Sustainable Water Resources Management*. Springer, Singapore. https://doi.org/10.1007/978-981-19-1898-8_4.

- **Oliazadeh, A.**, Bozorg-Haddad, O., Arefinia, A., Ahmad, S. (2022). Ant Colony Optimization Algorithms: Introductory Steps to Understanding. Computational Intelligence for Water and Environmental Sciences *Springer*, Singapore. https://doi.org/10.1007/978-981-19-2519-1_7.
- **Oliazadeh, A.**, Bozorg-Haddad, O., Rahimi, H., Yuan, S., Lu, C., Ahmad, S. (2022). Genetic Programming (GP): An Introduction and Practical Application. Computational Intelligence for Water and Environmental Sciences. *Springer*, Singapore. https://doi.org/10.1007/978-981-19-2519-1_12.
- Arefinia, A., Bozorg-Haddad, O., **Oliazadeh, A.**, Zolghadr-Asli, B., Keller, A.A. (2022). Firefly Algorithms (FAs): Application in Water Resource Systems. Computational Intelligence for Water and Environmental Sciences. *Springer*, Singapore. https://doi.org/10.1007/978-981-19-2519-1_5

Conference:

- **Oliazadeh, A.**, Hawman, P., Mishra, D. (2024). Machine Learning Methods to Determine Salt Marsh Light Use Efficiency based on Environmental Scalers. *AGU24*.

EXPERIENCE

University of Georgia, GA, USA. **2023 –present**

Department of Geography, Graduate Teaching Assistant

- Teaching Assistant of “*Remote sensing of Environment*” in Fall 23 for undergraduate students.
- Teaching Assistant of “*Advanced GeoAP*” in Spring 24 for graduate students.
- Teaching Assistant of “*Aerial Photographs and Image Interpretation*” in Fall 24 for undergraduate students.

University of Tehran, Tehran, Iran. **2018 – 2019**

Teaching Assistant

- Conducted seminars, graded essays, and contributed to curriculum design. Classes taught totaled over 20 students and comprised a master research seminar, and two master's courses (Analysis of water resources systems and Supplementary water resources engineering)

RELEVANT SKILLS

Software Matlab (Evolutionary optimization algorithms and optimization toolbox), ArcGIS, Water Quality Modeling (CE-Qual-W2), Climate Change Downscaling Models (LARS-WG, SDSM and Change Factor), Storm Water Management Model (SWMM), (IHACRES), Data Mining Methods (GP, ANN, LSTM, RF and SVM), Remote Sensing data analysis.

Courses Coursework covering fundamentals of statistics, risk-benefit and decision analysis, Optimization algorithms, Reservoir operation, Options in engineering, and engineering math.

Projects Simulated reservoir operation policies (quantitative and qualitative) by using CE-Qual-W2 Model (Course - Seminar); researched system design optimization techniques as part of a course portfolio (Course – Supplementary water resources management Options).

Review Service

- *Agricultural Water Management, Sustainable Cities and Society, Journal of Photogrammetry and Remote Sensing, Earth system governance, Elsevier.*
- *Environmental Monitoring and Assessment, Theoretical and Applied Climatology, Springer.*

Awards & Membership

- International Doctoral Summer School Scholarship on “*Extremes in Water Science*”, 2022, Palermo, Italy.
- CZNet summer travel scholarship \$500 – University of Illinois at Urbana-Champaign, Aug 2023.
- Climate Advocacy: Making Policy Change, Cornell University – June 2024.
- ASCE (American Society of Civil Engineering) – 2018.
- AAG (American Association of Geographers) – 2023.
- UGA Geography, GGSa Executive Board, Physical Geography Representative – 2023.