

Curriculum Vitae

Arman Oliazadeh*

Education

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

May 2028, (expected)

Graduate Teaching Assistant/ Department of Geography.

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

Graduated, May 2020

Master of Water Resources Engineering

Thesis: Development of an Urban Runoff Management Model by Remote Sensing Precipitation Data in using LIDs under Climate Change Condition

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

Graduated, May 2012

Bachelor of Water Engineering

Relevant Skills

- Software** MATLAB (Evolutionary optimization algorithms and optimization toolbox), ArcGIS, Water Quality Modeling (CE-Qual-W2), Climate Change and Statistical Downscaling Models (LARS-WG, SDSM and Change Factor), Stormwater Management Model (SWMM), (IHACRES), (HEC-RAS), Data Mining Methods (GP, ANN 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).

Academic Experience

University of Georgia, GA, USA.

2023 – present

Graduate Teaching Assistant

- Teaching Assistant of GEOG 4350 “*Remote sensing of Environment*” 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).

Research Interests

- Hydrology, Stormwater Management, Climate Change Mitigation, Remote Sensing data analysis, Data-mining Methods, Optimization Algorithms, Reservoir Operation, and Water Quality Modeling.

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[ResearchGate](#)

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Publication

- **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>)
- **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

Review Service

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

Awards & Membership

- International Doctoral Summer School Scholarship on *Extremes in Water Science*, 2022, Palermo, Italy.
- ASCE (American Society of Civil Engineering) – 2018.
- AAG (American Association of Geographers) – 2023.