

Hadis Matinpour

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PROFESSIONAL EXPERIENCE

Aug 2023 – Present	Assistant Professor, Civil Engineering Texas Tech University
Feb 2022 – July 2023	Senior Water Resources Engineering AECOM
Apr 2019 – May 2021	Postdoctoral Research Scholar University of California-Santa Barbara
Apr 2019 – Nov 2019	Visiting Research Scholar University of Pennsylvania

EDUCATION

Aug 2014 – Mar 2019	Ph.D., Civil Engineering, University at Buffalo, Buffalo, NY
Aug 2009 – Nov 2011	M.S., Civil Engineering, Sharif University of Technology, Iran
Aug 2004 – June 2008	B.S., Civil Engineering, Razi University, Iran

INTERESTS

- Environmental Fluid Mechanics and Turbulence
- Sediment Transport in Riverine and Coastal Systems
- Dense Suspensions and Multiphase Flow Dynamics
- Hydrodynamics of Extreme Weather Events
- Physics-based Modeling of Flood and Storm Impacts

PUBLICATIONS

- (1) Mahbub, H; Rocha, L; Lopez, A; Matinpour, H; Malmali, M. Would RO treatment of partially desalinated produced water meet the regulatory standards for external beneficial reuse? *Journal of Membrane Science*, **2025**, 124669
- (2) Hsieh, I; Lin, B.; Matinpour, H.; Malmali, M. In-situ imaging to elucidate on scaling and wetting in membrane distillation, *Desalination*, **2024**, 117393
- (3) Lin, B.; Matinpour, H.; Malmali, M. Evaluation of spacer-induced hydrodynamic mixing using particle image velocimetry: Impact on membrane distillation performance, *Desalination*, **2023**, 116758
- (4) Kostynick, R.*; Matinpour, H.*; Pradeep, S.*; Haber, S.; Sauret, A.; Meiburg, E.; Dunne, T.; Arratia, P.; Jerolmack, D. Rheology of debris flow materials is controlled by the distance from jamming”, *PNAS*, **2022**, 2209109119

- (5) Matinpour, H.; Bennett, S.; Atkinson, J. Secondary circulation within a mixing box and its effects on turbulence, *Experiments in Fluids*, **2020**, 225
- (6) Matinpour, H.; Bennett, S.; Atkinson, J.; Guala, M. Modulation of time-mean and turbulent flow by suspended sediment, *Physical Review Fluids*, **2019**, 074605

TEACHING EXPERIENCE

- CE 3354 Engineering Hydrology- Fall 2023 [enrollment: 35]
- CE 3354 Engineering Hydrology- Spring 2024 [enrollment: 56]
- CE 5368 Surface Water Quality Modeling- Fall 2024 [enrollment: 9]
- CE 3354 Engineering Hydrology- Spring 2025 [enrollment: 52]
- CE 5368 Surface Water Quality Modeling- Fall 2025 [enrollment: 5]

SERVICE (TTU)

1. Served as academic advisor to 12 undergraduate students in Civil Engineering at TTU (2024–present).
2. Served on the seminar committee and graduate affairs committee in Civil Engineering at TTU (2024–present).
3. Served on departmental faculty search committee for Water Resources Engineering at TTU.
4. Served as a member of TTU’s STEM CORE program for K–12 outreach and recruitment of underrepresented minorities.

PROFESSIONAL MEMBERSHIP

- American Geophysical Union (AGU) 2016-Present
- American Physical Society (APS) 2017-Present
- American Society of Civil Engineers (ASCE) 2018-Present

RESEARCH SUPERVISED

Ph.D. Students

1. Hossein Haghgou 2025-Present
“Physics of splash erosion in overland flow conditions”
2. Andre Lima 2025-Present
“Turbulence-driven grain size segregation in debris flow source material”
3. Mehedi Sohan 2025-Present
“The role of spacer-induced turbulence in modulating scaling behavior in membrane distillation”
4. Sajib Das 2025-Present
“Turbulence-driven aerosol transformation: quantitative insights into aerosol mixing state modulation by turbulent eddies.”