

# Amin Tamadoni

PhD Student at UTD, Department of Sustainable Earth Systems Sciences

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## Education

2023-present

### Ph.D. Geosciences

Department of Sustainable Earth Systems Sciences, University of Texas at Dallas, Richardson, TX, USA

Research Area: Sea-level-rise-induced release of arsenic from flood-prone contaminated coastal soils.

Advisor: Dr. David Hyndman, and Dr. Layla Izadi

2016-2019

### M.Sc., Environmental Engineering

Department of Civil Engineering, Babol Noshirvani University of Technology, Mazandaran, Iran

Thesis: Soil remediation using ultrasonic and ozonation for soil medium contaminated with organic pollutants.

Advisor: Dr. Farhad Qaderi

2012-2016

### B.Sc., Civil Engineering

Department of Civil Engineering Babol Noshirvani University of Technology, Mazandaran, Iran

Degree Project: Sustainability Evaluation of Development in Tehran City Zone 22 by Ecological Footprint Method

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## Research Interest

- **Fate and transportation of pollutants in the environment.**
  - **Climate Change impact on contaminated soil.**
  - **Environmental Impact Assessment.**
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## Research Experience

2023-present

**Research Assistant**, Environmental Geochemistry Lab, University of Texas at Dallas, Richardson, TX, USA

**Research: Impacts of sea-level-rise-induced flooding on coastal contaminants**

2016-2019

**Research Assistant**, Environmental Engineering lab, Babol Noshirvani University of Technology, Babol, Iran

**Research: Soil remediation pilot experiments using ozone/ultrasonic**

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## Teaching Experience

- 2023-present      **Teaching Assistant**, Department of Sustainable Earth Systems Sciences, University of Texas at Dallas, Richardson, TX, USA  
TA for: 3D Data Capture and Ground Lidar; Structural Geology; Oceans; Applied Geophysics  
**Awarded outstanding Teaching Assistant of SESS, UTD**
- 2016-2019      **Teaching Assistant**, Department of Civil Engineering, Babol Noshirvani University of Technology, Babol, Iran.  
TA for: Environmental Modeling; Environmental Engineering; Air pollution engineering.

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## Work Experience

- 2021-2023      **Environmental Specialist**, FSTCO, Tehran, Iran  
The environmental coordinator for a mega project proposing to construct and operate a magnetite iron ore project with mining, processing, and associated infrastructure in Western Australia. Engaged in preparing Environmental Review documents, GHG Management Plan, Mining Proposal, and Work Approvals.
- 2019-2021      **Environmental Engineer**, SAM Rah Shahr, Tehran, Iran  
Successfully delivered a handful of projects such as Environmental and Social Due diligence, Environmental baseline studies, Environmental impact assessment and EHS risk assessment for several international clients including VINCI Airports, Pöyry, and Ramboll.

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## Publications

### Journal publications

- F. Qaderi, A. Banisheikholeslami, **A. Tamadoni** “Intelligent Models as Novel Tools for Optimizing Ultrasonication-Ozonation Technique in PAH-contaminated Soil Remediation”, *Journal of Environmental Health Science and Engineering*, *March 2024 (submitted)*
- F. Qaderi, **A. Tamadoni**, A. Banisheikholeslami, “Remediation of anthracene-contaminated soil using ultrasonic irradiation: a case study in Persian Gulf Special Economic Zone, Iran”, *Environmental Earth Sciences*, *March 2024 (published)*
- F. Qaderi, **A. Tamadoni**, A. Banisheikholeslami, “Cost estimation for application of ultrasonication–ozonation hybrid process in remediation of PAH-contaminated soil, Environment”, *Development and Sustainability*, *September 2023 (published)*
- **A. Tamadoni**, F. Qaderi, “Environmental-Economical Assessment of Ultrasonication as Pre-treatment for Phenanthrene Contaminated Soil Slurry Using Response Surface Methodology”, accepted in *Journal of Environmental Management*, *December 2019 (published)*

- M. Ghaderi, **A. Tamadoni**, Asiyeh Mehdizadeh “Introducing an applied reactor for treatment of alcohol wastewater”, SN Applied Sciences, *November 2019 (published)*
- **A. Tamadoni**, F. Qaderi, “Optimization of Soil Remediation by Ozonation for PAHs Contaminated Soils”, *Ozone: Science & Engineering, May 2019 (published)*
- F. Qaderi, P. Asadi, **A. Tamadoni**, M. Azizi, “Evaluation of sustainability of Development Tehran Zone 22 by Ecological Footprint Method”, *Geography and Development Iranian journal, March 2018 (published)*

## Honors and Awards

2023-present	<b>Tuition Waiver Scholarship</b> , UTD graduate teaching scholarship, Department of Sustainable Earth Systems Sciences, University of Texas at Dallas.
2016-2019	<b>Awarded fellowship</b> , graduate program, National Entrance Exam (Ministry of Science, Research and Technology) of state Universities.
2012-2016	<b>Awarded fellowship</b> , undergraduate program, National Entrance Exam (Ministry of Science, Research and Technology) of state Universities.

## Software Skills

Proficient in	QGIS, ArcGIS, Design Expert, Microsoft Office Word, PowerPoint, and Excel.
Skilled	AutoCAD, Groundwater Modeling System, DHI-Mike, MATLAB, Python

## References

Dr. David E. Lumley	Professor, Earth Sciences (Dept Head), UTD, Department of Sustainable Earth Systems Sciences. <a href="mailto:David.Lumley@utdallas.edu">David.Lumley@utdallas.edu</a>
Dr. Layla Izadi	Research Scientist, Department of Geosciences, University of Texas at Dallas. <a href="mailto:izadi@utdallas.edu">izadi@utdallas.edu</a>
Dr. Daryoush Yousefi Kebria	Associate Professor, Babol Noshirvani University of Technology, Dept. of Civil Engineering. <a href="mailto:Dy.kebria@nit.ac.ir">Dy.kebria@nit.ac.ir</a>
Soroush Sadat Mousavi	Managing Director at SAM Rah Shahr. <a href="mailto:sm.soroush@gmail.com">sm.soroush@gmail.com</a>
Ali Sheikhzadeh Najjar	Corporate Planning Manager at FIJV, <a href="mailto:Ali.Sh.Najjar@gmail.com">Ali.Sh.Najjar@gmail.com</a>