

# Tina Radvand

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## Education

<b>Ph.D. in Civil and Environmental Engineering (Transportation Engineering)</b> University of Illinois Urbana-Champaign (Advisor: Prof. Alireza Talebpour)	Jan 2022 – Present
<b>B.Sc. in Civil and Environmental Engineering</b> Sharif University of Technology	Sep 2016 – Jan 2021

## Research Interests

Network Algorithms, Quantum Computing, Transportation

## Publications

- T. Radvand, A. Talebpour and Y. Ouyang. *Rebalancing Modular Transit Systems: Graph-Based Optimization for Fleet Size Planning and Routing*. In preparation, expected submission 2025.
- T. Radvand, Y. Zhang, A. Talebpour and S. Hamdar. *Dynamics of Traffic Jam Formation and Dissipation*. In preparation, expected submission 2025.
- Y. Zhang, et al. *Coexistence in Motion: Unveiling the Behavioral Dynamics of Humans and Highly Automated Vehicles in Naturalistic Mixed Traffic*. In preparation, expected submission 2025.
- T. Radvand, A. Talebpour and H. Khosravian. *A Quantum Optimization Algorithm for Optimal Electric Vehicle Charging Station Placement for Intercity Trips*. Under review, ArXiv, 2024.
- R. Ammourah, et al. *Introduction to the Third Generation Simulation Dataset: Data Collection and Trajectory Extraction*. Transportation Research Record, 2024.
- A. Talebpour, Y. Zhang, T. Radvand, M. Yousefi *Advancing Self-Enforcing Streets Phase 1: The Relationship between Roadway Environment and Crash Severity, Illinois*. Department of Transportation, 2024.
- T. Radvand, H. Khosravian and A. Talebpour. *A Quantum Annealing Approach to Discretized Traffic Assignment Problem*. Presented at the TRB 103rd Annual Meeting, January 2023.

## Awards and Honors

Graduate Student Representative, Institute of Transportation Engineers at UIUC, Student Chapter	2024
Member of Chi Epsilon, National Civil Engineering Honor Society, USA	2024
Recognized as Special Talented Student, Sharif University of Technology	2020
Educational Award, Second Student Recognition Ceremony, Civil Engineering Department, Sharif University of Technology	2017
National Silver Medal, 11th Iranian Astronomy and Astrophysics Olympiad, Iran	2015
Member of National Elite Foundation, Iran	2015

## Teaching Experience

Teaching Assistant, Soil Mechanics Lab, Sharif University of Technology	Fall 2019 - Fall 2020
Teaching Assistant, Fundamentals of Programming with Python, Sharif University of Technology	Fall 2017
Olympiad Teacher, Astrophysics and Celestial Mechanics, Farzanegan 3 High School	Summer 2016