

Tara Radvand

Curriculum Vitae/Resume

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Residency

US Permanent Resident (Green Card)

Education

- 2023-Present **Ph.D. in Technology and Operations**,
Ross School of Business, University of Michigan, Ann Arbor.
◦ Cumulative GPA: 4.0+/4.0
- 2021-2024 **MSc in Industrial and Operations Engineering**,
University of Michigan, Ann Arbor.
◦ Cumulative GPA: 4.0+/4.0
- 2019-2020 **MSc in Transportation Engineering**,
Purdue University, West Lafayette.
◦ Cumulative GPA: 4.0/4.0
- 2014-2018 **Bachelor of Science**, Sharif University of Technology.

Honors and Awards

- 2025 **Best Presentation Award**, MSSISS 2025, University of Michigan, Ann Arbor.
- 2025 **Member of the Phi Kappa Phi Honor Society**, University of Michigan, Ann Arbor.
- 2023-2028 **Doctoral Fellowship**, Ross School of Business, University of Michigan, Ann Arbor.
- 2023 **Distinguished Leadership Award**, University of Michigan, Ann Arbor.
- 2022 **Jacobs Incorporation Scholarship & Conference Travel Grant**, COMTO National.
- 2022 **Garrett A. Morgan Transportation Achievement Scholarship**, COMTO Michigan Chapter.
- 2022 **Member of the Tau Beta Pi Honor Society**, University of Michigan, Ann Arbor.
- 2021-2022 **Henry E. Riggs Fellowship**, University of Michigan, Ann Arbor.
- 2021,2022,2025 **Rackham Conference Travel Grant**, University of Michigan, Ann Arbor.
- 2013 **Third Prize (Bronze Medal)**, 9th National Astronomy and Astrophysics Olympiad.
- 2010 **Selected for study in schools of National Organization for Development of Exceptional Talents (NODET)** through an exam with less than 1% acceptance rate.

Research

Publication/Papers Accepted for Publication

- 2022 Curbing Cruising-as-Substitution-For-Parking in Automated Mobility; Transportation Research. Part C: Emerging Technologies; **Tara Radvand**, Sina Bahrami, Yafeng Yin, Ken Laberteaux (industry collaborator).
◦ Research supported by research grants from the National Science Foundation, United States (CMMI-1904575) and Toyota Motor Engineering & Manufacturing North America (TMNA).

Working Papers

- 2025 Zero-shot Statistical Tests for LLM-Generated Text Detection using Finite Sample Concentration Inequalities; **Tara Radvand**, Mojtaba Abdolmaleki, Ambuj Tewari, Mohamed Mostagir,
- **Media:** Paris Women in Machine Learning and Data Science (WiMLDS) Weekly Captures
 - **Award:** Best Presentation Award at MSSISS 2025, University of Michigan, Ann Arbor
 - **Presentation:** Invited for presentation in the Revenue Management and Pricing (RMP) conference 2025, Columbia University.
- 2023 Dynamic Joint Pricing and Empty Relocation Policies for Ride-Sourcing Systems; Mojtaba Abdolmaleki, Xiuli Chao, **Tara Radvand**, Yafeng Yin.

Work in Progress

- 2025 Optimal Belief Diversity in Social Learning,; Mohamed Mostagir, **Tara Radvand***, James Siderius, (*: authorship in alphabetical order)

Master's Thesis

- 2021 **Tara Radvand**,, *Sustainable Routing Guidance for a Road Network with Work Zones During the Connected and Automated Vehicles Era*, Purdue University Graduate School.

Other Publications

- 2020 Properties of concrete containing Guar gum, *European Journal of Environmental and Civil Engineering*, 2020, (Undergraduate Publication), **Tara Radvand**, Vahab Toufigh..

Selected Presentations

- 2025 **Zero-shot Statistical Tests for LLM-Generated Text Detection using Finite Sample Concentration Inequalities**,
Revenue Management and Pricing (RMP) conference 2025, Columbia University,
The 2025 Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS 2025), University of Michigan.
- 2022 **A Stochastic Model for Estimating Search Time for On-street Parking**,
2022 INFORMS Annual Meeting, Indiana.
- 2021, 2022 **Dynamic Parking Management For Automated Vehicles In Downtown Areas**,
2021 INFORMS Annual Meeting, Anaheim,
2022 TRB Peer-reviewed conference (poster presentation).

Teaching Experience

- Fall 2025 **Instructor**, *Operations Management (BBA core course)*.
- 2023 **Teaching Assistant for Global Supply Chain Management**, Ross School of Business, University of Michigan
- Winter semester: MBA core course TO 620/MKT 640 (class size: 82 students)
 - Fall semester: WMBA core course WMBA 611 (class size: 47 students)
- Fall 2019 **Guest Lecturer**, *Civil Engineering Department, Purdue University*,
Gave an introductory presentation on Genetic Algorithms to undergraduate students.
- 2018-2019 **Teaching Assistant for Traffic & Highway Engineering**, *Sharif University of Technology*.
- 2017-2018 **Lab Teaching Assistant**, *Sharif University of Technology*.
- 2016-2017 **Astrophysics Teacher**, *Taught Astrophysics to high school students to prepare them for the National Astronomy and Astrophysics Olympiad*.

Leadership & Academic Service

Leadership

- 2022-2023 **K-12 Outreach Teacher and Officer**, *Tau Beta Pi honor society*, University of Michigan.

- 2022 **INFORMS Session Chair**, *Parking Management and the Sharing Economy*, INFORMS Annual Meeting.
- 2022 **Leadership, Teamwork, and Facilitation Certificate & Travel Grant Recipient**, *National Science Foundation (CyberAmbassadors)*, Michigan State University.
- 2022 **Trained in the Leadershape Program**, *University of Michigan*.

Academic Service

- 2024 **Consultation to Operations Management PhD applicants**.
- 2022 **Next Generation Transportation Seminar (NGTS) Student Coordinator**, University of Michigan.
- 2021 **Co-chair in the International Symposium of Transportation Data and Modelling**, *ISTDM 2021*.
- 2020 **Secretary of the Institute of Transportation Engineers**, *Purdue University*.
- 2019-2025 **Peer-review Service**, *Transportation Research, Part E: Logistics and Transportation Review; Research in Transportation Business & Management; Transportation Research Board (TRB); ICEEEE'19*.

Collaboration with Industry

- 2021-2022 **Research collaboration**, *Toyota Motor Engineering & Manufacturing North America (TMNA)*.

Selected courses

- **Statistics & Data Analytics:** LLMs and Transformers (A+), Statistical Inference (A), Econometrics I (A), Econometrics II (A), Data Mining (A).
- **Microeconomics:** Math for Economics (A), Microeconomics I (Decision Theory), Microeconomics II (Game Theory) (A), Microeconomics III (Market Equilibrium) (A), Microeconomics IV (Mechanism Design) (A); Engineering Economic Analysis (A+), Congestion Pricing (A+).
- **Stochastic Processes:** Stochastic Networks & Operations (A+), Stochastic Models in Operations Research I (A), Stochastic Process II (A+).
- **Optimization:** Nonlinear Programming (A), Linear Programming (A), Multi-objective Optimization, Transportation System Optimization (A).
- **Supply Chain Operations & Management:** Inventory and Supply Chain Management (ongoing), Global Supply Chain Management (A+), Manufacturing & Supply Operations (A+);
- **Special Topics:** Behavioral Operations Management (A).

Software Skills & Languages

Programming:, *Python, R, Stata, SQL, , Matlab, Latex*.

Optimization:, *Gurobi, Cplex, AMPL, GAMS*.

Languages:, *English (fluent), Farsi (native)*.