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

Awards

2025 Best Presentation Award, MSSISS 2025, 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.

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.

Selected for study in schools of National Organization for Development of Exceptional Talents (NODET) through an exam with less than 1% acceptance rate.

Honor Societies

2025 Full Membership in Sigma Xi, The Scientific Research Honor Society.

2025 Member of the Phi Kappa Phi Honor Society, University of Michigan, Ann Arbor.

2022 Member of the Tau Beta Pi Honor Society, University of Michigan, Ann Arbor.

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, Mohamed Mostagir, Ambuj Tewari,

Award

- Best Presentation Award at MSSISS 2025, University of Michigan, Ann Arbor.

Media Recognition

- Michigan News article: U-M researchers devise tool for detecting AI that scores high on accuracy, low on false accusations;
- Ross News article: Michigan Ross Research Team Creates Al Detection Tool;
- Paris Women in Machine Learning and Data Science (WiMLDS) Weekly Captures.

Presentation

- Revenue Management and Pricing (RMP) conference 2025, Columbia University;
- The 2025 Michigan Student Symposium for Interdisciplinary Statistical Sciences (MSSISS), University of Michigan, Ann Arbor.
- 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; **Tara Radvand**, Mohamed Mostagir*, James Siderius*, (*: co-senior authorship in alphabetical order)

Master's Thesis

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, TO 313: Operations Management (BBA core course), Ross School of Business, University of Michigan.
 - 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)
 - o 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; 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 (A), 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*).