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 **Ross Early PhD Candidacy Award**, *Ross School of Business, University of Michigan*.

2025 **Best Presentation Award**, *MSSISS 2025, 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.

2013 **Third Prize (Bronze Medal)**, 9^{th} *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.

Grants

2023-2028 **Doctoral Fellowship**, *Ross School of Business*, University of Michigan, Ann Arbor.

2021,2022,2025 **Rackham Conference Travel Grant**, *University of Michigan*, Ann Arbor.

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 AI 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 Viewpoint Diversity; **Tara Radvand**, Mohamed Mostagir*, James Siderius*, (*: co-senior 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**, *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)
- 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)*.