

Bahar D Viniche

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SUMMARY

I am a PhD candidate in Transportation Engineering and Management at York University and a researcher in the Interactive-OR Lab. My research is centered around advancing data-driven decision-making in Supply Chain Management and Logistics. I work under the supervision of Mehdi Nourinejad at the Lassonde School of Engineering, York University and Opher Baron and Oded Berman at the Rotman School of Management, University of Toronto. I'm currently focusing on developing sustainable multi-echelon last-mile delivery solutions using novel delivery technologies.

EDUCATION

Phd in Transportation Engineering

York University and Rotman School of Management, University of Toronto

Toronto, Canada

Jan 2021 – Current

Thesis: Design of multi-echelon last-mile delivery systems. Supervisors: Dr. Mehdi Nourinejad, Dr. Opher Baron, Dr. Oded Berman

Courses: Intelligent Transportation System, Information Networks, Transportation Network Modelling

Teaching Assistantships: Capstone Design Project, Civil Engineering Project Management, Pavement Materials and Design

MSc in Air Transportation

Sharif University of Technology

Tehran, Iran

Sep 2016 – Dec 2018

Thesis: Airline Development Model based on Sub-Systems Dependencies. Graduated with Distinction. (Thesis Grade: Excellent)

Courses: Game Theory, System Dynamics, Optimal Design 1&2, Advanced Auto Control, Advanced Mathematics.

Teaching Assistantships: System Dynamics, CAD, Aircraft Performance.

B.S.c in Aerospace Engineering

Sharif University of Technology

Tehran, Iran

Sep 2011 – Dec 2015

Graduated with Distinction (Thesis Grade: Excellent)

Teaching Assistantships: Mechanics of Material.

AWARDS

Women in Transportation Graduate Student Award

WTS (Women in Transportation)-Toronto Area Chapter

Toronto, Canada

2023

Academic Excellent Award

York University Faculty of Graduate Studies

Toronto, Canada

2023 & 2022

Ranked 23rd among more than 5,000 participants

Aerospace Engineering Graduate University Entrance Exam

Tehran, Iran

2016

Ranked top 0.1% among more than 400,000 participants

National University Entrance Exam

Tehran, Iran

2011

PUBLICATIONS AND PRESENTATIONS

Journal Publications

Recipient-Dependent Last-Mile Delivery Routing With Autonomous Vehicle Applications.

Bahar D Viniche, Mehdi Nourinejad, Opher Baron, Oded Berman. *Reject and Resubmit (submitted)* - *Transportation Science*

Parametric Design of Time-Sensitive Routing With Recipient-Dependent Contributions.

Bahar D Viniche, Mehdi Nourinejad, Opher Baron, Oded Berman. *Ready for submission to Transportation Research: Part C*

Tactical Fleet Planning in Drone-Enabled Deliveries.

Bahar D Viniche, Mehdi Nourinejad, Opher Baron, Oded Berman. *Ready for Submission to Production and Operation Management (POM)*

Conference Presentations

Tactical Fleet Planning in Drone Enabled Deliveries and Predicting Drone Delivery Efficiency in Urban Areas using GNNs.

Purdue Operations Conference, 2024, West Lafayette, US

Autonomous Vehicle Applications in Recipient-Dependent Deliveries.
Canadian Operational Research Society (CORS), 2023, Montreal, Canada

Tactical Fleet Planning in Drone-Enabled Deliveries.
informs Annual Meeting, 2023, Pheonix, US

Fleet Composition Optimization in Drone Enabled Deliveries.
102nd Annual meeting of Transportation Research Board (TRB), 2023, Washington D.C., US

Fleet Composition Optimization in Drone Enabled Deliveries.
Canadian Operational Research Society (CORS), 2022, Vancouver, Canada

Airline Dynamic Modeling for Uniform Development Based on Sub-Systems Dependencies.
Third Annual Workshop on System Dynamics in Transportation Modelling, 2020, Palermo, Italy

EXPERIENCE

Research and Development Engineer <i>Sepehran Airline (FlySepehran)</i> <ul style="list-style-type: none">Airline Cost Management Researcher.	Aug 2019 – Jul 2020 <i>Tehran, Iran</i>
Aviation Intern <i>Isfahan International Airport</i> <ul style="list-style-type: none">Internship in Flight Control Tower.	Jun 2014 – Aug 2014 <i>Isfahan, Iran</i>

TECHNICAL SKILLS

Programming Languages: Python (Pandas, Gurobi, etc.), Matlab, JavaScript, Wolfram Mathematica.

Soft Skill: Time Management, Engaging Presentation, Teamwork, Problem-solving, Documentation.

SERVICE RECORDS

Graduate Representative in <i>The Learning Curriculum and Students (LCS) Committee</i> <i>Lassonde School of Engineering</i>	Sep 2023 – Jul 2024 <i>Toronto, Canada</i>
Session Chair <i>2023 informs Annual Meeting</i>	Oct 2023 <i>Pheonix, US</i>
Moderator and Presenter in CLUE Symposium <i>City Logistics and Urban Economics (CLUE)</i>	Jan 2022 – Current <i>Toronto, Canada</i>
Session Chair <i>2023 Canadian Operation Research Conference (CORS)</i>	Jun 2023 <i>Montreal, Canada</i>
Mentor in the Hack ITE York University <i>ITE York University Student Chapter</i>	Feb 2022 <i>Toronto, Canada</i>
Graduate Representative in Equity, Diversity and Inclusion (EDI) Subcommittee <i>York University</i>	Sep 2021 – Jun 2022 <i>Toronto, Canada</i>
SFC Graduate Research Assistance <i>Smart Freight Center</i>	Jan 2021 – Current <i>Toronto, Canada</i>
Central Council Member of Sharif University Mountaineering Group <i>Sharif University of Technology</i>	Sep 2011 – Aug 2016 <i>Tehran, Iran</i>
Volunteer Tutor at Yarigaran Group to Providing Free Education to underserved students. <i>Sharif University of Technology</i>	Sep 2011 – Aug 2013 <i>Tehran, Iran</i>

References available upon request.