

JASON PHILLIP LU

Department of Civil and Environmental Engineering, University of Michigan
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EDUCATION

University of Michigan

Doctor of Philosophy, Civil Engineering

Advisor: Prof. Neda Masoud

Specialization in Next Generation Transportation Systems

Expected May 2028

GPA: 3.962/4.0

University of Michigan

Master of Science, Industrial and Operations Engineering

Expected May 2026

GPA: 3.962/4.0

Georgia Institute of Technology

Bachelor of Science, Industrial Engineering

Research Advisor: Prof. Pascal Van Hentenryck

Minor in Scientific and Engineering Computing

Dec. 2022

GPA: 3.93/4.0

Graduated with Highest Honors

PUBLICATIONS

Peer-Reviewed Journals

Lu, J., Trasatti, A., Guan, H., Dalmeijer, K., Van Hentenryck, P. (2024). The Impact of Congestion and Dedicated Lanes on On-Demand Multimodal Transit Systems [Special Issue: Multimodal Public Transport, Travel Behaviour and Social Equity]. *Travel Behaviour and Society*. Volume 36, 100772. <https://doi.org/10.1016/j.tbs.2024.100772>

Under Revision

Lu, J., Masoud, N. (2025). The Incentive Bundle Program to Enhance Multimodal Transportation. *Submitted to Transportation Science*

RESEARCH EXPERIENCE

Graduate Research Assistant

[Next Generation Mobility Systems Lab](#)

Supervisor: **Prof. Neda Masoud**

University of Michigan

Aug. 2023 -

- Designing large-scale optimization methodologies for user incentive design to enhance multimodal transportation sustainability and equity.
- Investigating the redundancy of connected and automated vehicle sensors and modeling vehicle robustness and resiliency.

Research Assistant

[Artificial Intelligence Institute for Advances in Optimization](#)

Supervisor: **Prof. Pascal Van Hentenryck**

Georgia Institute of Technology

Jan. 2023 - Jul. 2023

- Worked in the supply chain division to optimize fuel delivery for trucks in a project with an industrial partner.

Undergraduate Research Assistant

[Socially Aware Mobility Lab](#)

Supervisor: **Prof. Pascal Van Hentenryck**

Georgia Institute of Technology

Feb. 2021 - Jul. 2023

- Extended On-Demand Multimodal Transit Systems (ODMTS) to include dedicated bus lanes and congestion, undertook a case study in the Metropolitan Atlanta area.

- Investigated a six-month pilot of ODMTS in collaboration with the Metropolitan Atlanta Rapid Transit Authority.

PRESENTATIONS

Invited Talks

The Incentive Bundle Program to Enhance Multimodal Transport. *Next Generation Transportation Systems Seminar Series*, Department of Civil and Environmental Engineering, University of Michigan, February 27, 2025.

Conference Presentations

Lu, J., Masoud, N. A Game Between Ridehailing Operator and Government Under the Incentive Bundle Program. *2025 INFORMS Annual Meeting*, Atlanta, Georgia, October 26-29, 2025.

Lu, J., Masoud, N. The Incentive Bundle Program to Enhance Multimodal Transportation. *The 7th Bridging Transportation Researchers Conference*, Virtual, August 6-7, 2025.

Masoud, S., Masoud, N., Alinezhad, E., **Lu, J.**, Rapp, S., Rimanelli, J. Adaptive Contested Logistics: A DDDAS Framework with Dynamic Bayesian Belief Networks. *2025 ARC Annual Program Review*, Ann Arbor, Michigan, June 17-18, 2025.

Masoud, N., **Lu, J.**, Chen, C., Liu, Y., Wu, Y., Kusari, A. Balancing Safety, Cybersecurity, and Mobility: Quantifying the Impact of Sensor Redundancy in CAVs. *2025 CCAT Global Symposium on Mobility Innovation*, Ann Arbor, Michigan, March 28, 2025.

Lu, J., Masoud, N. Designing Incentive Bundles for Multimodal Transportation Systems. *2024 INFORMS Annual Meeting*, Seattle, Washington, October 20-23, 2024.

Akhlaghi, V.E., Guan, H., **Lu, J.**, Van Hentenryck, P. Optimizing Truck Fleet Scheduling for Fuel Deliveries. *2023 INFORMS Annual Meeting*, Phoenix, Arizona, October 15-18, 2023.

HONORS AND AWARDS

Rackham Conference Travel Grant

Rackham Graduate School, University of Michigan

Aug. 2024, Aug. 2025

Seth Bonder Fellowship

H. Milton Stewart School of Industrial and Systems Engineering, Georgia Institute of Technology

Jun. 2022, Jun. 2023

Senior Design Capstone Finalist

H. Milton Stewart School of Industrial and Systems Engineering, Georgia Institute of Technology

May 2022

SERVICE - INTERNAL

Michigan Transportation Student Organization

Vice President

May 2024 - Apr. 2025

- Organize the Civil and Environmental Engineering Career Fair and other professional networking events for students.
- Guide undergraduate students on trips to professional conferences.

The Seth Bonder Camp in Computational and Data Science for Engineering

Instructor

Jun. 2022 - Jul. 2023

- Led four week-long camps for underrepresented minority high school students.
- Organized logistics, guided interactive activities, and managed teaching assistants.
- Taught computer and data science principles through Snap!, a visual programming language.

SERVICE - EXTERNAL

Reviewer for Academic Journals and Conferences

- Transportation Research Board
- Bridging Transportation Research

Conference Session Chair

- Advancements in Urban Transit Systems, *2024 INFORMS Annual Meeting*, Seattle, Washington, October 20-23, 2024.

ADVISING

Masters Students

Yuyang Liu, University of Michigan *May 2024 -*
M.S. Electrical Engineering (Expected 2026)

Undergraduate Students

Yi Ling Wu, University of Michigan *May 2024 - May 2025*
B.S. Computer Engineering (2025)
Placement: PhD Student, Department of Mechanical Engineering, Texas A&M University
– Aviles-Johnson Doctoral Fellowship

TEACHING

Graduate Student Instructor

University of Michigan

CEE 501 - Next Generation Transportation Systems Seminar *Spring 2024*
Instructor: Prof. Neda Masoud

Guest Lecturer

University of Michigan

Overview of Next Generation Transportation Systems Program *March 26, 2025*
CEE 200 - Introduction to Civil and Environmental Engineering
Preparing for the Civil and Environmental Engineering Career Fair *September 25, 2024*
CEE 200 - Introduction to Civil and Environmental Engineering
Gurobi Installation *September 23, 2024*
CEE 553 - Infrastructure Systems Optimization

Head Undergraduate Teaching Assistant

Georgia Institute of Technology

ISYE 4134 - Constraint Programming *Spring 2023*
Instructors: Mr. Tejas Santanam, Prof. Pascal Van Hentenryck

Undergraduate Teaching Assistant

Georgia Institute of Technology

ISYE 3044 - Simulation Analysis and Design *Summer 2022*
Instructor: Prof. Seong-Hee Kim
ISYE 4034 - Decision and Data Analytics *Spring 2022*
Instructor: Prof. Jye-Chyi Lu
ISYE 3770 - Statistics and Applications *Spring 2021*
Instructor: Dr. Tuba Ketenci

MEDIA COVERAGE AND RECOGNITION

[“AI4OPT’s Impact at INFORMS 2023 Annual Meeting,”](#) AI4OPT, Oct. 2023.

[“The Monthly Opt-In,”](#) AI4OPT Newsletter, Jul. 2023, Vol. 1, Issue 7, Page 4.

[“Engineering for Human Needs,”](#) The H. Milton Stewart School Alumni Magazine, May 2023, Vol. 16, No. 1, Page 21.

INDUSTRY EXPERIENCE

Process Improvement Intern, Convoy

Jan. 2022 - May 2022

- Mitigated conflicting appointment time errors from Convoy’s shipment processes by analyzing shipment data, developing machine learning models, and providing systematic recommendations.
- Saved Convoy over \$1 million annually, 4.3 hours/shipment, and 190000 miles/year.

Industrial Engineering Intern, Yokogawa

May 2021 - Dec. 2021

- Automated recording and display processes from over 100 engineering data files, eliminating errors in manual reporting and saving 300 hours annually.
- Created an algorithm to generate product numbers, eliminating manual reporting.
- Improved an existing UI to include additional features, digitalizing display and preventing errors.

Industrial Engineering Intern, Yokogawa

May 2020 - Jul. 2020

- Created a UI in VB and SQL that transformed manufacturing line boards to a digital format with live display, moving the company to a paperless model.
- UI saved 1500 hours annually, eliminated fines for insufficient displays, and was selected for Yokogawa’s Global Manufacturing Engineering Competition.