

JASON PHILLIP LU

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EDUCATION

University of Michigan <i>Doctor of Philosophy, Civil Engineering</i> Advisor: Prof. Neda Masoud Specialization in Next Generation Transportation Systems	<i>Expected May 2028</i> GPA: 3.95/4.0
University of Michigan <i>Master of Science, Industrial and Operations Engineering</i>	<i>Expected May 2026</i> GPA: 3.95/4.0
Georgia Institute of Technology <i>Bachelor of Science, Industrial Engineering</i> Research Advisor: Prof. Pascal Van Hentenryck Minor in Scientific and Engineering Computing	<i>Dec. 2022</i> GPA: 3.93/4.0 <i>Graduated with Highest Honors</i>

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>

RESEARCH EXPERIENCE

Graduate Research Assistant Next Generation Mobility Systems Lab Supervisor: Prof. Neda Masoud	University of Michigan <i>Aug. 2023 -</i>
<ul style="list-style-type: none">• Designing incentives to promote equitable transit systems.• Investigating sensor assignments for autonomous vehicles.	
Research Assistant Artificial Intelligence Institute for Advances in Optimization Supervisor: Prof. Pascal Van Hentenryck	Georgia Institute of Technology <i>Jan. 2023 - Jul. 2023</i>
<ul style="list-style-type: none">• 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 <i>Feb. 2021 - Jul. 2023</i>
<ul style="list-style-type: none">• 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

Conference Presentations

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 *Aug. 2024*

Rackham Graduate School, University of Michigan

Seth Bonder Fellowship *Jun. 2022, Jun. 2023*

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

Stewart Topper Fellowship (Declined) *Feb. 2023*

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

Senior Design Capstone Finalist *May 2022*

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

SERVICE - INTERNAL

Michigan Transportation Student Organization

Vice President *May 2024 -*

- 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 *Summer 2022, 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 (1)

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 -*

B.S. Computer Engineering (Expected 2025)

TEACHING

Head 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
Instructor: Prof. Seong-Hee Kim

Summer 2022

ISYE 4034 - Decision and Data Analytics
Instructor: Prof. Jye-Chyi Lu

Spring 2022

ISYE 3770 - Statistics and Applications
Instructor: Dr. Tuba Ketenci

Spring 2021

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.