TINGHAN (JOE) YE

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EDUCATION

Georgia Institute of Technology, Atlanta, GA
Ph.D. in Industrial Engineering *May 2028 (expected)*
Department: H. Milton Stewart School of Industrial and Systems Engineering (ISyE)

Cornell University, Ithaca, NY
B.S. (with Honors) in Operations Research and Engineering, *summa cum laude* *May 2023*
Department: School of Operations Research and Information Engineering (ORIE)

UNDER REVIEW

- *Contextual Stochastic Optimization for Omnichannel Multi-Courier Order Fulfillment Under Delivery Time Uncertainty*
  Tinghan Ye, Sikai Cheng, Amira Hijazi, Pascal Van Hentenryck
  Minor revision at **Manufacturing & Service Operations Management**.
  – Honorable Mention, M&SOM Practice-based Research Competition, 2025.

- *Conformal Predictive Distributions for Order Fulfillment Time Forecasting*
  Tinghan Ye, Amira Hijazi, and Pascal Van Hentenryck
  Accepted at **International Conference on Computational Logistics, 2025**.

- *Cornell University Uses Integer Programming to Optimize Final Exam Scheduling*
  Tinghan Ye, Adam Jovine, Willem van Osselaer, Qihan Zhu, and David Shmoys
  Major revision at **INFORMS Journal on Applied Analytics**.
  – Finalist, INFORMS Undergraduate Operations Research Prize, 2023.

- *Paratransit Optimization with Constraint Programming: A Case Study in Savannah, Georgia*
  Liam Jagrowski, Kevin Dalmeijer, Tinghan Ye, and Pascal Van Hentenryck
  Submitted to **Transportation Research Board Annual Meeting, 2026**.

PUBLICATIONS

- *Boosting Column Generation with Graph Neural Networks for Joint Rider Trip Planning and Crew Shift Scheduling*
  Jiawei Lu, Tinghan Ye, Wenbo Chen, and Pascal Van Hentenryck
  Transportation Research Part E, 2025.

- *Evaluating Solvers For Linearly Constrained Simulation Optimization*
  Natthawut Boonsiriphatthanajaroen, Rongyi He, Litong Liu, Tinghan Ye, and Shane G. Henderson
  Winter Simulation Conference, 2024.
  – Code available at SimOpt.

- *Managed Residential Electric Vehicle Charging Minimizes Electricity Bills while Meeting Driver and Community Preferences*
  Tinghan Ye, Shanshan Liu, and Eleftheria Kontou
  Transport Policy, 2024.
  - 2^{nd} Place, INFORMS Mini Poster Competition, 2021.
- *A Min-max Theorem for the Minimum Fleet Size Problem*
  Tinghan Ye and David Shmoys
  Operations Research Letters, 2023.

WORKING PAPERS

- *Deep Learning-Driven Contextual Stochastic Optimization for Real-Time Order Fulfillment*
  Tinghan Ye, Shuaicheng Tong, Beste Basciftci, and Pascal Van Hentenryck

AWARDS AND RECOGNITION

- John Morris Fellowship (2023)
- Byron W. Saunders and the Allen H. Mogensen Awards for Outstanding Students (2023)
- Omega Rho International Operations Research Honor Society Membership (2023)
- Cornell Engineering Learning Initiatives Undergraduate Research Award (2022, 2023)
- Tau Beta Pi Scholarship (2022)
- Research Support Grant from Illinois Office of Undergraduate Research (2021)

TEACHING

Georgia Institute of Technology
Tutor

- ISYE 3232 - Stochastic Manufacturing and Service Systems (B.S.): Fall 2023

Cornell University
Teaching Assistant

- ORIE 3510/5510 - Stochastic Processes (B.S. / M. Eng.): Spring 2023
- ORIE 4580/5580/5581 - Simulation Modeling and Analysis (B.S. / M. Eng.): Fall 2022
- SYSEN 5200 / ORIE 5125 - Systems Analysis Behavior and Optimization (M. Eng.): Spring 2022

University of Illinois at Urbana-Champaign
Course Assistant

- CS 125 - Introduction to Computer Science (B.S.): Fall 2020

WORK EXPERIENCE

Data Science Researcher *May 2024 - May 2025*
Fulfillment Analytics, Best Buy Co., Inc.

- Built an integer programming model to optimize fulfillment for multi-item ship-to-home orders
- Developed a machine learning model for delivery time distributional forecasting

ACADEMIC SERVICE

Reviewer

- Transportation Research Part E: Logistics and Transportation Review
- Electric Power Systems Research
- INFORMS Workshop on Data Science 2024, 2025

Session Chair

- INFORMS Workshop on Data Science 2024

CONFERENCE AND WORKSHOP PRESENTATIONS

Contextual Stochastic Optimization for Omnichannel Multi-Courier Order Fulfillment Under Delivery Time Uncertainty

- IISE Annual Conference & Expo 2025, Atlanta, GA
- ISyE-MS&E-IOE Joint Rising Stars Workshop 2025, Atlanta, GA
- INFORMS Workshop on Data Science 2024, Seattle, WA

Boosting Column Generation with Graph Neural Networks for Joint Rider Trip Planning and Crew Shift Scheduling

- INFORMS Annual Meeting 2024, Seattle, WA

Cornell University Uses Integer Programming to Optimize Final Exam Scheduling

- INFORMS Annual Meeting 2023, Phoenix, AZ

A Min-max Theorem for the Minimum Fleet Size Problem

- Data-Driven Urban Tech Workshop 2023, Cornell Tech, NYC
- INFORMS Annual Meeting 2022, Indianapolis, IN
- Young Researchers Workshop 2022, Ithaca, NY