

TINGHAN (JOE) YE

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

Ph.D. in Industrial Engineering

May 2028 (*expected*)

M.S. in Operations Research

May 2026

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)

WORKING PAPERS AND PREPRINTS

* Corresponding author † Equal contribution

- *Learning Optimization Proxies for Sequential Contextual Stochastic Programs: An Order Fulfillment Application*
Tinghan Ye^{*}, Shuaicheng Tong, Changkun Guan, Beste Basciftci, and Pascal Van Hentenryck
Submitted to **Manufacturing & Service Operations Management**.
Preliminary version in **NeurIPS 2025 MLxOR Workshop**.
- *Democratizing Large-Scale Re-Optimization with LLM-Guided Model Patches*
Tinghan Ye^{*}, Arnaud Deza, Ved Mohan, El Mehdi Er Raqabi, and Pascal Van Hentenryck
Submitted to **Management Science**.
- *Decision-Focused On-Policy Learning for Contextual Linear Optimization with Partial Feedback*
Wyame Benslimane[†], Tinghan Ye[†], Pascal Van Hentenryck, and Paul Grigas
Submitted to **NeurIPS 2026**.
- *HawkesLLM: Semantic Uncertainty Propagation in Agentic Text Simulation*
Zewei Deng, Tinghan Ye, and Liyan Xie
Preliminary version in **ICML 2026 Workshop on Statistical Frameworks for Uncertainty in Agentic Systems**.
- *SkillsBench: Benchmarking How Well Agent Skills Work Across Diverse Tasks*
Xiangyi Li, Yimin Liu, Wenbo Chen, et al. (including Tinghan Ye)
Submitted to **NeurIPS 2026**.
- *Plan, Verify and Fill: A Structured Parallel Decoding Approach for Diffusion Language Models*
Miao Li, Hanyang Jiang, Sikai Cheng, Hengyu Fu, Yuhang Cai, Baihe Huang, Tinghan Ye, Xuanzhou Chen, and Pascal Van Hentenryck

PUBLICATIONS

* Corresponding author † Equal contribution

- *LISTEN to Your Preferences: An LLM Framework for Multi-Objective Selection*
Adam S. Jovine[†], Tinghan Ye^{*†}, Francis Bahk, Jingjing Wang, Matthew Ford, David B. Shmoys, and Peter I. Frazier
Accepted, **IJCAI-ECAI 2026**.
- *Paratransit Optimization with Constraint Programming: A Case Study in Savannah, Georgia*
Liam Jagrowski, Kevin Dalmeijer, Tinghan Ye^{*}, and Pascal Van Hentenryck
Accepted, **CP 2026**.
- *Contextual Stochastic Optimization for Omnichannel Multicourier Order Fulfillment under Delivery Time Uncertainty*
Tinghan Ye^{*}, Sikai Cheng, Amira Hijazi, Pascal Van Hentenryck
Manufacturing & Service Operations Management, 2025.
– 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
International Conference on Computational Logistics, 2025.
- *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: Logistics and Transportation Review, 2025.
- *Cornell University Uses Integer Programming to Optimize Final Exam Scheduling*
Tinghan Ye^{*}, Adam S. Jovine, Willem van Osselaer, Qihan Zhu, and David B. Shmoys
INFORMS Journal on Applied Analytics, 2025.
– Finalist, INFORMS Undergraduate Operations Research Prize, 2023.
- *Evaluating Solvers for Linearly Constrained Simulation Optimization*
Natthawut Boonsiriphatthanajaroen, Rongyi He, Litong Liu, Tinghan Ye, and Shane G. Henderson
Proceedings of the 2024 Winter Simulation Conference.
– 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.
– 2nd 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.

AWARDS AND RECOGNITION

- Atlanta Air Cargo Association PhD Student Fellowship for Research Excellence in the area of Supply Chain Engineering by GaTech ISyE (2025)
- Byron W. Saunders & the Allen H. Mogensen Awards for Outstanding Students by Cornell ORIE (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

Grader/Tutor

- Seth Bonder Camps Level 3 & 4—Introduction to Deep Learning and Generative AI (High-School): Summer 2025
- 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

INDUSTRY EXPERIENCE

Fulfillment by Amazon (FBA) Science, Amazon

May 2026 - Aug. 2026

Research Scientist Intern

Bellevue, WA

- Developed bandit-based online learning and decision-focused policy optimization methods for seller inbound arrival control
- Built an end-to-end simulation framework to evaluate sequential incentive policies, showing how decision-aware learning improves operational costs outcomes beyond prediction-focused approaches

Fulfillment Analytics, Best Buy

May 2024 - May 2025

Data Science Researcher

Remote

- Designed a stochastic optimization model for multi-item home delivery that co-optimizes fulfillment operations and delivery performance, achieving a projected 18% reduction in combined costs
- Built a machine learning model to generate probabilistic delivery-time windows, improving promise date accuracy by up to 14% and reducing late deliveries by 75%

ACADEMIC SERVICE

Reviewer

- NeurIPS 2026
- AISTATS 2026
- Transportation Science
- INFORMS Journal on Computing
- Transportation Research Part E: Logistics and Transportation Review

- INFORMS Journal on Applied Analytics
- International Journal of Production Research
- Electric Power Systems Research
- INFORMS Workshop on Data Science 2024, 2025

Session Chair

- INFORMS Workshop on Data Science 2024

CONFERENCE AND WORKSHOP PRESENTATIONS

Learning Optimization Proxies for Sequential Contextual Stochastic Programs: An Order Fulfillment Application

- INFORMS Optimization Society Conference 2026, Atlanta, GA
- NeurIPS MLxOR Workshop 2025, San Diego, CA

LISTEN to Your Preferences: An LLM Framework for Multi-Objective Selection

- NeurIPS MLxOR Workshop 2025, San Diego, CA

Contextual Stochastic Optimization for Omnichannel Multicourier Order Fulfillment under Delivery Time Uncertainty

- INFORMS Annual Meeting 2025, Atlanta, GA
- 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

- INFORMS Annual Meeting 2022, Indianapolis, IN
- Young Researchers Workshop 2022, Ithaca, NY