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)

PUBLICATIONS

- *[Contextual Stochastic Optimization for Omnichannel Multi-Courier Order Fulfillment Under Delivery Time Uncertainty](#)*

  Tinghan Ye, Sikai Cheng, Amira Hijazi, Pascal Van Hentenryck

  Major revision at **Manufacturing & Service Operations Management**.

- *[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

  Under review at **Transportation Research Part E**.

- *[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.

- *[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

- 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 - Present*

Fulfillment Analytics, Best Buy Co., Inc.

- Built an integer programming model to optimize fulfillment for multi-item ship-to-home orders
- Developing a distributional forecasting machine learning model to replace the current static expected delivery date estimate

ACADEMIC SERVICE

Reviewer

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

Session Chair

- INFORMS Workshop on Data Science 2024

CONFERENCE AND WORKSHOP PRESENTATIONS

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

- INFORMS Annual Meeting 2024, Seattle, WA

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

- INFORMS Workshop on Data Science 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