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)

RESEARCH EXPERIENCE AND PUBLICATIONS

- *Optimizing Paratransit Service for Chatham County*

  Jiawei Lu, Tinghan Ye, and Pascal Van Hentenryck

  – Design efficient algorithms for an electric vehicle dial-a-ride problem and driver shift scheduling

- *Cornell University Uses Integer Programming to Optimize Final Exam Scheduling*

  Tinghan Ye, Willem van Osselaer, Qihan Zhu, and David Shmoys

  Paper in preparation for **INFORMS Journal on Applied Analytics**.

  – Finalist, INFORMS Undergraduate Operations Research Prize, 2023.

- *Managed Residential Electric Vehicle Charging Minimizes Electricity Bills while Meeting Driver and Community Preferences*

  Tinghan Ye, Shanshan Liu, and Eleftheria Kontou

  Major Revision at **Transport Policy**.

  – 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, Volume 51, Issue 3, May 2023, Pages 312-314, ISSN 0167-6377.

- *Scheduling for Engineering Advising - ENGRG 1050 Matching Tool*

  Tinghan Ye, Caroline Ryu, Artem Ezhov, and David Shmoys

  – Revamped an optimization model for matching faculty advisors with freshmen in engineering; created the schedules for ENGRG 1050 - Engineering Seminar in Fall 2022.

  – Best in Category: Engineering & Design, Cornell CURB Fall Forum, 2022.

- *SimOpt - A Library of Simulation Optimization Problems and Solvers*

  Tinghan Ye and Shane Henderson

  – Designed and implemented simulation optimization test problems and solvers (algorithms), especially those that can handle linear constraints.

  – Acknowledged in Eckman, D. J., Henderson, S. G., & Shashaani, S. (2023). SimOpt: A testbed for simulation-optimization experiments. INFORMS Journal on Computing, 35(2), 495-508.

CONFERENCE AND WORKSHOP PRESENTATIONS

- INFORMS Annual Meeting, Phoenix, AZ, Oct. 2023
- Data-Driven Urban Tech Workshop, Cornell Tech, NYC, May 2023
- Cornell Undergraduate Research Fall Forum, Ithaca, NY, Nov. 2022
- INFORMS Annual Meeting, Indianapolis, IN, Oct. 2022
- Young Researchers Workshop, Cornell University, Ithaca, NY, Oct. 2022
- Cornell Undergraduate Research Board Spring Symposium, Ithaca, NY, May 2022
- Cornell Engineering Learning Initiatives Poster Session, Ithaca, NY, April 2022
- 11th International Conference on Economics, Business and Marketing Management, Singapore, Feb. 2022

AWARDS AND RECOGNITION

- Byron W. Saunders and the Allen H. Mogensen Awards for Outstanding Students (2023)
- Cornell Engineering Learning Initiatives Undergraduate Research Award (2022, 2023)
- Omega Rho International Operations Research Honor Society Membership (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