

Yuhao Wang

755 Ferst Drive
Atlanta, Georgia, 30332

Personal website
yuhaowang@gatech.edu

Education

Georgia Institute of Technology

Ph.D. in Operations Research

August 2021 - present

Atlanta, U.S.A.

Nanjing University

B.S. in Computational Mathematics

September 2017 - June 2021

Nanjing, China

Research Interests

- Simulation optimization, with special interest in data-driven ranking and selection problem under input uncertainty.
- Reinforcement learning, with special interest in Bayesian robust Q-learning.

Publications

Journal Paper:

- Di Wu, **Yuhao Wang**, Enlu Zhou (2022), "[Data-driven Ranking and Selection under Input Uncertainty](#)", *Operations Research*.
- Yifan Lin*, **Yuhao Wang (co-first author)**, Enlu Zhou (2022), "[Risk-averse Contextual Multi-arm Bandit Problem with Linear Payoff](#)", *Journal of Systems Science and Systems Engineering*.

Conference Paper:

- **Yuhao Wang**, Enlu Zhou (2023), "Bayesian Risk-Averse Q-Learning with Streaming Observations" *Accepted by NeurIPS 2023*,
 - **Best Paper Award for 18th INFORMS DMDA Workshop (Theoretical Track) - Runner-up**
 - **2023 INFORMS Poster Competition - Finalist**
- **Yuhao Wang**, Enlu Zhou (2023), "Input Data Collection Versus Simulation: Simultaneous Resource Allocation", *Accepted by Winter Simulation Conference 2023*.
- **Yuhao Wang**, Enlu Zhou (2022), "[Fixed Budget Ranking and Selection with Streaming Input Data](#)", *in Proceedings of the 2022 Winter Simulation Conference*,
 - **Best Contributed Theoretical Paper for WSC 2023 - Winner.**

Journal Paper

- **Yuhao Wang**, Enlu Zhou (2023), “Data-driven Optimal Computing Budget Allocation under Input Uncertainty”, submitted to *INFORMS Journal on Computing*.
- Alexander Shapiro, Enlu Zhou, Yifan Lin, and **Yuhao Wang** (2023), “Episodic Bayesian Optimal Control with Unknown Randomness Distributions”, submitted to *Operations Research*.
- Sait Cakmak, **Yuhao Wang**, Siyang Gao, Enlu Zhou (2023), “Contextual Ranking and Selection with Gaussian Processes and OCBA”, under minor revision by *ACM Transactions on Modeling and Computer Simulation*.

Research Presentations

Yuhao Wang, Enlu Zhou, “Bayesian Risk-Averse Q-Learning with Streaming Observations”.

- Poster presentation at 2023 ICML workshop: PAC-Bayes Meets Interactive Learning
- Invited talk at 2023 INFORMS Annual Meeting
- Finalist presentation at 18th INFORMS DMDA workshop
- Poster presentation at NeurIPS 2023

Yuhao Wang, Enlu Zhou, “Data-driven Optimal Computing Budget Allocation”, invited talk at 2022 INFORMS Annual Meeting.

Yuhao Wang, Enlu Zhou, “Fixed Budget Ranking and Selection with Streaming Input Data”, 2022 Winter Simulation Conference.

Awards & Honors

Best Paper Award - Finalist

18th INFORMS Data Mining & Decision Analytics Workshop (Theoretical Track) 2023

Best Contributed Theoretical Paper - Winner

2022 Winter Simulation Conference 2022

H. Milton Stewart Fellowship

Georgia Institute of Technology 2021

Chinese National Scholarship for Outstanding Undergraduates

Nanjing University 2019

Nanjing University’s tip-out Scholarship

Nanjing University 2019, 2020

First Prize in Mathematics Competition of Chinese College Students in Jiangsu Province

Chinese Mathematical Society 2018

Renmin Scholarship, First Prize

Nanjing University 2018

Teaching

ISYE 3133: Engineering Optimization

Teaching Assistant, Georgia Institute of Technology August 2021 - December 2022

ISYE 3232: Stochastic Manufacturing & Service Systems

Teaching Assistant, Georgia Institute of Technology January 2022 - May 2022