ZHANHAO ZHANG

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EDUCATION

- **Cornell University - Ithaca, NY** *Aug 2022 - May 2027*
  Major: Ph.D. in Operations Research
  GPA: 4.0+/4.0
- **Columbia University - New York, NY** *Sep 2020 - Dec 2021*
  Major: M.A. in Statistics
  GPA: 4.0+/4.0
- **University of Washington - Seattle, WA** *Sep 2016 - Jun 2020*
  Majors: B.S. in Computer Science, B.S. in Statistics
  Minors: Mathematics, Chemistry
  GPA: 3.92/4.0

HONORS AND AWARDS

- **Cornell Fellowship (Cornell University)** *Jan 2023 - May 2023*
- **MA General Scholarship (Columbia University)** *Jan 2021 - May 2021*
- **Annual Chair's List (Columbia University)** *Sep 2020 - May 2021*
- **Phi Beta Kappa** *May 2018 - Present*
- **Dean's List (University of Washington)** *Sep 2016 - Jun 2020*

SELECTED PUBLICATIONS (* INDICATES STUDENT AUTHORS)

- **Rest-Activity Rhythms are Associated with Prevalent Cardiovascular Disease, Hypertension, Obesity, and Central Adiposity in a Nationally Representative Sample of US Adults.** *Nov 2023*
  Nour Makarem, Charles A. German, Zhanhao Zhang*, Keith Diaz, Priya Palta, Dustin Duncan, Cecilia Castro-Diehl*, Ari Shechter.
  Journal of the American Heart Association (2024) 13. https://doi.org/10.1161/JAHA.122.032073
- **Capacity allocation and pricing of high occupancy toll lane systems with heterogeneous travelers.** *Jul 2023*
  Haripriya Pulyassary*, Ruifan Yang*, Zhanhao Zhang*, Manxi Wu.
  Accepted in the 62nd IEEE *Conference on Decision and Control*, 2023.
- **Deep Learning Algorithms for Hedging With Frictions.** *Mar 2023*
  Xiaofei Shi, Daran Xu*, Zhanhao Zhang*.
  Digital Finance (2023) 5, 113–147. https://doi.org/10.1007/s42521-023-00075-z

WORKING PAPERS AND PREPRINTS (* INDICATES STUDENT AUTHORS)

- **Mixed-Type Courier Dispatch For Online Food Delivery Platforms** *(Submitted to Transportation Science)*
  Junlin Chen*, Manxi Wu, Chiwei Yan, Zhanhao Zhang*.

- **Designing high-occupancy toll lanes: A game-theoretic analysis** *(Submitted to Transportation Science)*
  Zhanhao Zhang*, Ruifan Yang*, Manxi Wu.
- **Atomic proximal policy optimization for electric robo-taxi dispatch and charger allocation** *Preparing for Submission to Transportation Science*
  Jim Dai, Manxi Wu, Zhanhao Zhang*.
- **Atomic reinforcement learning for stochastic networks with multiple server classes** *Working Paper*
  Jim Dai, Manxi Wu, Zhanhao Zhang*.
- **Generative Market Equilibrium Models with Stable Adversarial Learning via Reinforcement Link** *Preparing for Submission for Quantitative Finance*
  Anastasis Kratsios, Xiaofei Shi, Qiang Sun, Zhanhao Zhang*.

INVITED TALKS

- **2024 INFOMRS Annual Meeting** *Oct 2024*
  Seattle, Washington, USA
- **2023 INFOMRS Annual Meeting** *Oct 2023*
  Phoenix, Arizona, USA

POSTER PRESENTATION

- **NYC Ops Day 2025** *March 2025*
  New York City, New York, USA
- **NYC Ops Day 2023** *May 2023*
  New York City, New York, USA

INDUSTRY EXPERIENCE

- **Data Scientist** *Oct 2021 - Jul 2022*
  Aetna at CVS Health, New York, NY
- **Machine Learning Intern** *Sep 2020 - Jun 2021*
  Percolata, Palo Alto, CA
- **Research Assistant** *Feb 2019 - Sep 2019*
  Institute for Health Metrics and Evaluation, Seattle, WA

TEACHING EXPERIENCE

Instructor

- Operations Research & Information Engineering, Cornell University
  - Spring 2024 & Spring 2025: *Big Data Technologies*

Teaching Assistant

- Operations Research & Information Engineering, Cornell University
  - Fall 2022: *Simulation Modeling and Analysis*
- Department of Statistics, Columbia University
  - Spring 2022: *Statistical Machine Learning*
  - Fall 2021: *Applied Statistical Methods*

- Paul G. Allen School of Computer Science, University of Washington
  - Spring 2020: *Machine Learning*
  - Fall 2019 & Winter 2020: *Foundations of Computing II*
  - Summer 2019: *Introduction to Database Management*

Grader

- Department of Statistics, Columbia University
  - Spring 2021: *Introduction to Probability and Statistics*
- Department of Statistics, University of Washington
  - Fall 2019 & Winter 2020 & Spring 2020: *Statistical Software and Its Applications*