

# ZHANHAO ZHANG

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## EDUCATION

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- **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

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- **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*

## PUBLICATIONS

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- **Rest-Activity Rhythms are Associated with Prevalent Cardiovascular Disease, Hypertension, Obesity, and Central Adiposity in a Nationally Representative Sample of US Adults.** (Submitted to Journal of the American Heart Association) *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.  
*Digit Finance* (2023) 5, 113–147. <https://doi.org/10.1007/s42521-023-00075-z>
- **An Efficient Geometric Search Algorithm of Pandemic Boundary Detection.** *Aug 2021*  
Zhanhao Zhang, Qifan Huang.  
*Algorithms* (2021) 14, no. 8: 244. <https://doi.org/10.3390/a14080244>

## WORKING PAPERS AND PREPRINTS

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- **Scalable Deep Reinforcement Learning for Ride-Hailing with Electric Vehicles** *In progress*  
Zhanhao Zhang, Jim Dai, Manxi Wu.
- **Deep Learning Algorithms for an Equilibrium Model with Frictions** *In progress*  
Xiaofei Shi, Daran Xu, Zhanhao Zhang.

## INVITED TALKS

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- **2023 INFOMRS Annual Meeting** *Oct 2023*  
Phoenix, Arizona, USA

## POSTER PRESENTATION

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

## INDUSTRY EXPERIENCE

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- **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

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### Instructor

- Operations Research & Information Engineering, Cornell University  
– Spring 2024: *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*