

## Education

- 2021–2026 **PhD in Decision, Risk and Operations**, *Columbia University*, New York, USA  
Columbia Business School
- 2017–2021 **BE in Computer Science and Technology**, *Tsinghua University*, Beijing, China  
Institute for Interdisciplinary Information Sciences (Yao Class)

## Research Visits

- 01–08/2020 **Visiting Undergraduate Researcher**, *California Institute of Technology*, Pasadena, CA  
Advisor: Adam Wierman
- 06–08/2019 **Visiting Scholar**, *University of Michigan*, Ann Arbor, MI  
Advisor: Grant Schoenebeck

## Industry Experience

- 06–08/2024 **PhD Software Engineer Intern**, *Uber Technologies, Inc.*, San Francisco, CA, USA  
Developed machine learning models to estimate trip completion rate.
- 01–02/2019 **Machine Learning Researcher**, *Tencent AI Lab*, Shenzhen, China  
Worked on learning feature-disentangled embeddings for images in unsupervised settings.

## Research Areas

Game Theory, Market Design, Optimization, Online Learning, Statistical Learning

## Working Papers

Chenkai Yu, Hongyao Ma. Iterative Network Pricing for Ridesharing Platforms. *arXiv preprint arXiv:2311.08392*. Submitted to *Management Science*.

Chenkai Yu, Arpit Agarwal, Hongyao Ma. Who Ate the Lunch? A Variational Bayesian Algorithm for Identifying Refund Hunters.

## Publications

(The \* sign denotes alphabetical order.)

Chenkai Yu, Hongyao Ma, Adam Wierman. Price Cycles in Ridesharing Platforms. In *International Conference on Web and Internet Economics*, **WINE**, 2023.

Chenkai Yu, Guanya Shi, Soon-Jo Chung, Yisong Yue, Adam Wierman. Competitive Control with Delayed Imperfect Information. In *American Control Conference*, **ACC**, 2022.

Tongxin Li, Ruixiao Yang, Guannan Qu, Guanya Shi, Chenkai Yu, Adam Wierman, Steven Low. Robustness and consistency in linear quadratic control with untrusted predictions. In *Proceedings of the ACM on Measurement and Analysis of Computing Systems*, **SIGMETRICS**, 2022.

Guannan Qu, Chenkai Yu, Steven Low, Adam Wierman. Exploiting linear models for model-free nonlinear control: A provably convergent policy gradient approach. In *IEEE Conference on Decision and Control*, **CDC**, 2021.

Grant Schoenebeck\*, Chenkai Yu\*, Fang-Yi Yu\*. Timely Information from Prediction Markets. In *Proceedings of the 20th International Conference on Autonomous Agents and MultiAgent Systems*, **AAMAS**, 2021.

Chenkai Yu, Guanya Shi, Soon-Jo Chung, Yisong Yue, Adam Wierman. The Power of Predictions in Online Control. In *Advances in Neural Information Processing Systems*, **NeurIPS**, 2020.

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## Awards

- 06/2023 **Deming Doctoral Fellowship**, *Columbia Business School*
- 09/2020 **Andrew C. Yao Award**, *Tsinghua University*
- 10/2018 **National Scholarship**, *Tsinghua University*
- 07/2016 **Silver Prize in National Olympiad in Informatics (NOI)**, China

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## Presentations

- 07/2024 **INFORMS RMP Conference**, Los Angeles, CA
- 07/2024 **INFORMS MSOM Conference**, Minneapolis, MN
- 05/2024 **Deming Doctoral Fellowship Seminar**, *Columbia Business School*, New York, NY
- 01/2024 **RSRG/FALCON Tea**, *Caltech*, Pasadena, CA
- 12/2023 **Conference on Web and Internet Economics (WINE)**, Shanghai, China
- 10/2023 **INFORMS Annual Meeting**, Phoenix, AZ
- 10/2022 **INFORMS Annual Meeting**, Indianapolis, IN
- 09/2022 **DRO Brown Bag Seminar**, *Columbia Business School*, New York, NY
- 06/2022 **American Control Conference**, Atlanta, GA
- 10/2021 **INFORMS Annual Meeting**, Online
- 05/2021 **International Conference on Autonomous Agents and Multiagent Systems**, Online
- 12/2020 **Conference on Neural Information Processing Systems (NeurIPS)**, Online
- 08/2020 **Workshop on Mechanism Design for Social Good**, Online

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## Teaching

- Summer 2025 Teaching Assistant for B5102 Operations Management
- Spring 2025 Teaching Assistant for B5102 Operations Management
- Fall 2024 Teaching Assistant for B6100 Managerial Statistics
- Spring 2024 Teaching Assistant for B5102 Operations Management
- Spring 2024 Teaching Assistant for B6100 Managerial Statistics
- Fall 2023 Teaching Assistant for B6100 Managerial Statistics
- Spring 2023 Teaching Assistant for B5102 Operations Management
- Spring 2023 Teaching Assistant for B6100 Managerial Statistics

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## Advising

- 04–12/2023 Co-advising Barnard College student Jingwen Zhang