# YAQI XIE

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## CONTACTS

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## EDUCATION

**The University of Chicago Booth School of Business** — Chicago, IL
Ph.D. in Operations Management — 2022–Present
Advisors: Prof. Linwei Xin and Prof. Will Ma

**Zhejiang University** — Hangzhou, China
B.S. in Mathematics and Applied Mathematics — 2017–2021

## RESEARCH INTERESTS

supply chain management, dynamic resource allocation, AI for large-scale operational decision-making, data-driven algorithm design, reinforcement learning, stochastic optimization

## PREPRINTS AND PUBLICATIONS

1. Yaqi Xie, Will Ma, Linwei Xin. Fast Horizon-Free Rates for Inventory Optimization.

2. Yaqi Xie, Xinru Hao*, Jiaxi Liu*, Will Ma, Linwei Xin, Lei Cao*, Yidong Zhang*. DeepStock: Reinforcement Learning with Policy Regularizations for Inventory Management.
   *INFORMS Journal on Applied Analytics*, 2026.
   - Finalist for the INFORMS Daniel H. Wagner Prize, 2025
   - Covered in Alibaba Taobao & Tmall Press Release [Link], and Columbia Business Insights [Link], 2026
   - 4-page preliminary version appeared at NeurIPS 2025 MLxOR Workshop

3. Yaqi Xie, Will Ma, Linwei Xin. VC Theory for Inventory Policies.
   Major revision at *Management Science*.
   - Finalist for the INFORMS APS Best Student Paper Prize, 2025
   - Selected for presentation in the MSOM Supply Chain Management SIG, 2024

4. Yaqi Xie, Will Ma, Linwei Xin. The Benefits of Delay to Online Decision-Making.
   *Management Science*, 2025.
   - Selected for presentation in the MSOM Supply Chain Management SIG, 2023
   - Covered in Chicago Booth Review [Link], 2023

5. Yaqi Xie, Zizhuo Wang. Dynamic Seat Selection Surcharge and Allocation Policy in Selling High-Speed Train Tickets. *Production and Operations Management*, 2025.

(An asterisk (*) indicates an industrial collaborator.)

## WORK IN PROGRESS

1. Learning from Partial Feedback through Operational Structure, with Will Ma and Linwei Xin.

## TEACHING EXPERIENCE

Teaching Assistant, Booth School of Business:

- BUSN 40000: Operations Management (MBA) Winter 2025
- BUSN 20520: Supply Chain Management (Undergraduate) Winter 2025
- BUSN 36900: Linear Programming (PhD) Fall 2023

## PRESENTATIONS

"Horizon-Free Rate, Policy Structure, and Deployable Reinforcement Learning for Inventory Management" (including Papers 2 and 3)

- Rotman Young Scholar Seminar Series (Virtual) 09/2026
- Columbia DRO Brownbag, New York, NY 02/2026

"DeepStock: Reinforcement Learning with Policy Regularizations for Inventory Management"

- INFORMS RMP Section Conference, Ann Arbor, MI 07/2026
- INFORMS MSOM Conference, Boston, MA 07/2026
- Prof. Ozan Candogan's PhD course "Frontiers in AI for Operational Decision-Making," Booth School of Business 03/2026
- INFORMS Annual Meeting, Atlanta, GA 10/2025
  Poster: Chicago Operations Day (06/2026); NYC Operations Day (04/2026); NeurIPS 2025 MLxOR Workshop, San Diego, CA (12/2025).

"VC Theory for Inventory Policies"

- STOC 2026 Machine Learning for Algorithms Workshop (Poster), Salt Lake City, UT 06/2026
- INFORMS Annual Meeting, Atlanta, GA 10/2025
- INFORMS RMP Section Conference, New York, NY 07/2025
- INFORMS APS Conference, Atlanta, GA 06/2025
- INFORMS Annual Meeting, Seattle, WA 10/2024
- International Symposium on Mathematical Programming (ISMP), Montréal, Canada 07/2024
- INFORMS MSOM Conference, Minneapolis, MN 06/2024

"The Benefits of Delay to Online Decision-Making"

- INFORMS Annual Meeting, Phoenix, AZ 10/2023
- INFORMS MSOM Conference, Montréal, Canada 06/2023
- POMS Annual Conference, Orlando, FL 05/2023
- OM PhD Lunch, Booth School of Business 04/2023

## ACADEMIC SERVICE

Journal ad-hoc reviewer: *Management Science, Manufacturing & Service Operations Management, Operations Research, Operations Research Letters*

Conference reviewer: MSOM SIG 2026

## HONORS AND AWARDS

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| Finalist for the INFORMS 2025 APS Best Student Paper Prize | 2025 |
| Finalist for the INFORMS 2025 Daniel H. Wagner Prize | 2025 |
| Katherine Dusak Miller Fellowship, Booth School of Business | 2025–2026 |
| PhD Fellowship, Booth School of Business | 2022–2027 |
| Outstanding Undergraduate of Zhejiang University & Zhejiang Province | 2021 |
| National Scholarship, Chinese Ministry of Education | 2018 |

## OTHER EXPERIENCE

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| Columbia Business School | New York, NY |
| Visiting student hosted by Prof. Will Ma | 01/2026–05/2026 |
| Cardinal Operations | Beijing, China |
| Algorithm engineering intern | 03/2022–06/2022 |
| The Chinese University of Hong Kong, Shenzhen | Shenzhen, China |
| Research assistant supervised by Prof. Zizhuo Wang | 07/2021–12/2021 |

## REFERENCES


**Prof. Will Ma**
Roderick H. Cushman Associate Professor
Decision, Risk, and Operations, Graduate School of Business, Columbia University
Email: wm2428@gsb.columbia.edu

**Prof. Linwei Xin**
Associate Professor
School of Operations Research and Information Engineering, Cornell University
Email: lx267@cornell.edu

**Prof. Zizhuo Wang**
Professor and Associate Dean
School of Data Science, The Chinese University of Hong Kong, Shenzhen
Email: wangzizhuo@cuhk.edu.cn

**Prof. David A. Goldberg**
Associate Professor
School of Operations Research and Information Engineering, Cornell University
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