Xu Zheng

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EDUCATION

University of Miami, Miami, FL, USA *August 2024 – Present*

Ph.D. in Business Administration (Management Science)

Peking University, Beijing, China *September 2020 - July 2024*

B.S. in Mathematics and B.A. in Economics

RESEARCH INTEREST

Methodologies: Stochastic Modeling, Optimization, Online Learning Algorithms

Applications: Revenue Management, Service Operations, Healthcare, Large Language Model

SELECTED PAPERS

1. "Joint Learning and Pricing in Many-Server Queues: Near-Optimal Policies via Fluid Duality",
   Xu Zheng, Xu Sun, Cong Shi — Major Revision at *Operations Research*
2. "Index Polices for Advance Scheduling",
   Xu Zheng, Xu Sun, Christos Zacharias — Major Revision at *Operations Research*
3. "Time Is Money: Incentivized Causal Transaction Ordering",
   Hongyin Chen, **Xu Zheng**, Jichen Li, Ittay Eyal — IEEE S&P 2027. Accepted
4. "Beyond the Square-Root Degeneracy Gap: Logarithmic Loss in Reusable-Resource Networks"
   Xu Zheng, Xu Sun, Cong Shi — Working paper

CONFERENCE PRESENTATIONS

1. Joint Learning and Pricing in Many-Server Queues: Near-Optimal Policies via Fluid Duality, *INFORMS 2025 (Atlanta GA)*
2. Joint Learning and Pricing in Many-Server Queues: Near-Optimal Policies via Fluid Duality, 36th *POMS 2026 (Reno NV)*
3. Index Polices for Advance Scheduling, *2026 INFORMS Healthcare Conference (Raleigh NC)*

HONORS AND AWARDS

POMS College of Sustainable Operations (CSO) PhD Travel Award *2026*

Guoqin Scholarship, School of Mathematical Sciences, Peking University *2023*

2nd prize in Beijing venue in the 14th Chinese Mathematics Competition *2022*

Meritorious winner in the Mathematical Contest in Modeling *2022*

2nd prize in Beijing venue in the 13th Chinese Mathematics Competitions *2021*

2nd Prize in the Mathematical Modeling Competition for Chinese College Student *2021*

2nd Prize in Chinese Mathematical Olympiad (CMO) *2019*