Jane Yi Jiang

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Research Interest

My research centers on marketplaces and the dissemination of information within them. Currently, I focus on the role of generative artificial intelligence on digital platforms, examining how it shapes information flow and influences decision-making. I use causal inference, structural modeling, and machine learning to address emerging business challenges and generate actionable insights for firms.

Academic

Assistant Professor, Fisher College of Business, The Ohio State University
Department of Operations and Business Analytics, 2024-Present

Education

Robert H. Smith School of Business, University of Maryland, College Park
Ph.D. Candidate in Operations Management & Management Science, 2024
Minor in Economics
Job market paper: An Empirical Study of Blockchain-Driven Transparency in a Consumer Marketplace
Committee: Wedad J. Elmaghraby (chair), Ken Moon, Ozge Sahin, Ashish Kabra, Ginger Zhe Jin

Queens College, City University of New York
B.S., Physics, 2019
B.A., Mathematics, 2019

Queensborough Community College, City University of New York
A.S., Mathematics and Sciences, 2016

New York University School of Law
Master of Laws (LL.M), 2013

China University of Political Science and Law
Bachelor of Law, 2008

Research Projects

1. **An Empirical Study of Blockchain-Driven Transparency in a Consumer Marketplace**
   Reject and Resubmit at *Management Science*
   with Wedad Elmaghraby and Ken Moon
   * **Selected for presentation at MSOM SIG 2025**
   * **Finalist, 2023 TIMES Best Working Paper Competition**
   * **Selected for presentation at Wharton Empirical OM Workshop 2023**
   - *Topics: Marketplace, information design, technological innovation, transparency and trust*
   - *Methods: Causal analysis, structural estimation, Bayesian learning, machine learning*

2. **Impact of Markdown Strategy on Returns: A Price Transparency and Valuation Uncertainty Story**
   Reject and Resubmit at *Manufacturing & Service Operations Management*
   with Wedad Elmaghraby and Ozge Sahin
   - *Topics: Pricing mechanisms, platform design, bounded rationality, corporate social responsibility*
   - *Methods: Empirical analysis, structural estimation, machine learning, simulation*

3. **AI-Infused Nudges for Supply Chain Decision Making**
   with Jiannan Xu and Wedad Elmaghraby
   * **Supported by the Faculty-Student Research Award ($15,000) from University of Maryland.**
   - *Topics: Human & AI interaction, bounded rationality, corporate social responsibility*
   - *Methods: Natural language processing, experiments, empirical analysis*

4. **AI Self-preferencing in Algorithmic Hiring: Empirical Evidence and Insights**
   with Jiannan Xu and Gujie Li
   * **Accepted at 3rd Annual Business & Generative AI Conference (AI@Wharton) 2025**
   * **Accepted at 2025 Markets & Society Conference**
   - *Topics: Human & AI interaction, bounded rationality, corporate social responsibility*
   - *Methods: Natural language processing, experiments, empirical analysis*

5. **The Offline Basis of Rural E-Commerce Success**
   with Ziyang Chen and Qiyao Zhou
   - *Topic: E-commerce, online-offline synergy, industry cluster, development economics*
   - *Methods: Causal analysis, Natural language processing*

Talks

- INFORMS Revenue Management and Pricing Section Conference, NYC NY, July 2025
- MSOM Sustainable Operation SIG, London UK, Jun. 2025
- Industry Studies Association 2025, Cambridge MA, Jun. 2025
- INFORMS Annual Meeting, Seattle WA, Oct. 2024
- INFORMS RMP Section Conference, Los Angeles CA, Jul. 2024
- POMS Annual Meeting, Minneapolis MN, Apr. 2024
- DSI Annual Conference, Atlanta GA, USA, Nov. 2023
- INFORMS Annual Meeting, Phoenix AZ, USA, Oct 2023
- Wharton Empirical OM Workshop, Philadelphia PA, USA, Oct 2023
- The Eighth Marketplace Innovation Workshop, Virtual, May 2023
- POMS Annual Meeting, Orlando FL, USA, May 2023
- INFORMS Annual Meeting, Indianapolis IN, USA, Oct 2022

Teaching Experience

1. **Instructor**, Fisher College of Business, The Ohio State University
   Introduction to Operations Management (undergraduate core, 3 credits), Autumn 2024
2. **Instructor**, Robert H. Smith School of Business, University of Maryland, College Park
   Business Statistics (undergraduate core, 3 credits), Summer 2023.
3. **Instructor**, Robert H. Smith School of Business, University of Maryland, College Park
   Business Statistics (undergraduate core, 3 credits), Summer 2022.
4. **Instructor**, Queensborough Community College, City University of New York
   QCC-STEP program, high school math, physics, and chemistry for students from the underrepresented groups, 2015~2019.

Honors and Awards

- Allan N. Nash Outstanding Doctoral Student Award, UMD, 2024
- Robert H. Smith School Ph.D. Fellowship, UMD, 2019-2023
- The Paul Klapper Scholarship, QC, 2019
- The Eva and Jacob Paulson Memorial Award for Excellence in Mathematics, QC, 2019
- Physics Department Paul Klapper Price, QC, 2019
- CUNY Research Scholar (CRSP), 2014~2016
- Presidential Award, CUNY, 2016

Academic Services

- **Faculty advisor**, China Entrepreneur Network at Ohio State
- **Session chair**, Technology and innovation in procurement, POMS 2024
- **Reviewer,** POMS, AOM
- **Founder and Vice President,** INFORMS University of Maryland Student Chapter
- **Founder and Co-Chair**, OM PhD Student Brown Bag Series
  University of Maryland, College Park, 2022~present
- **Social Chair**, Association of Doctoral Students
  University of Maryland, College Park, 2020~2022
- **Representative**, Graduate Student Government
  University of Maryland, College Park, 2020~2021

Skills

Analytics: Stata, R
Programming: Python, Java, C++, LaTeX
Database: SQL
Language: Mandarin (native), English (fluent)