

# Mingrui (Ray) Zhang

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EDUCATION	<b>University of Washington, Michael G. Foster School of Business</b> Doctor of Philosophy in Business Administration, Information Systems and Operations Management Minors: Microeconomics, Econometrics, Research Methods Advisors: Yong Tan, Shi Chen, Lin Hao, Wanning Chen <b>Columbia University in the City of New York</b> Master of Arts in Economics <b>University of Illinois at Urbana-Champaign</b> Bachelor of Science in Mathematics and Economics Graduated with High Distinction in Mathematics and Distinction in Economics	June 2024 (Expected)     Dec 2018 GPA 3.80/4.00  May 2017 Major GPA: 3.92/4.00
RESEARCH INTERESTS	<b>Research Focus</b> E-commerce, Consumer Behaviors, Crowdfunding, Fin-tech <b>Methodology</b> Game-theoretical Model, Econometrics, Economic Theories, Causal Inference, Large Language Models, Machine Learning	
RESEARCH EXPERIENCE	<b>Research Papers</b> <ul style="list-style-type: none"><li>• “Harnessing Tensor Completion with Geo-location: Impacts of Smart Vending Machines in Urban Landscapes”(with Wanning Chen, Yong Tan, Xusen Cheng) Working Paper</li><li>• “Investor Learning in Crowdfunded Supply Chain Finance Markets”(with Zhijin Zhou, Shengsheng Xiao, Yi-Chun (Chad) Ho, Yong Tan) Under major revision at <i>Production and Operations Management</i></li><li>• “Frenemies in the Retail Market: A Partnership Between a Physical Retailer and an E-tailer for Consumer Returns” (with Lin Hao, Shi Chen, Yong Tan) Preparing for journal submission</li><li>• “When to Disclose Product Quality under Online Reviews?” (with He Huang, Yufeng Yang, Hongyan Xu, Tingting Nian) Preparing for journal submission</li><li>• “Information Leakage Prior to SEC Form Filings—Evidence from TAQ Millisecond Data” (with Steven Wei Ho, Weiting Hong) Working Paper</li><li>• “The Gamer-Developer Feedback Loop: Navigating Review Dynamics in Digital Marketplaces” (with Yingda Lu) Ongoing Project</li><li>• “Contract Design for Cloud Services with Privacy and Security Concerns”(with Hongyan Xu, Ying Wang, Shi Chen) Ongoing Project</li></ul>	
CONFERENCES PRESENTATIONS	<ul style="list-style-type: none"><li>• “Contract Design for Cloud Services with Privacy and Security Concerns” 33rd Annual POMS-Conference</li></ul>	May 2023

- “Uncovering Demand Information and Consumer behaviors — Evidence from Vending Machine Transactions”  
2022 INFORMS Annual Meeting Indianapolis October 2022
- “Frenemies in Retail Markets: Brick-and-Mortar Retailer’s Partnership with Online Retail Platforms on Consumer Return”  
2020 Conference on Information Systems and Technology Virtual November 2020
- “Information Leakage Prior to SEC Form Filings—Evidence from TAQ Millisecond Data”  
American Finance Association 2020 Annual Meeting San Diego January 2020

AWARDS AND HONORS

ISOM Outstanding Teaching Award, UW Foster	2022
Richard B. Peterson Ph.D. Fellowship, UW Foster	2020 & 2021
Michael G. Foster Students First Scholar, UW Foster	2019 & 2022
Edmund J James Scholar, UIUC	2014-2017
Dean’s List, UIUC	FA 13/15/16 SP 16

RESEARCH HIGHLIGHTS

- Investors in crowdfunded SCF adjust their views on guarantor reliability from loan repayments and act accordingly. This perception impacts investor reactions to factors like interest rate, affecting market efficiency and fundraising success.
- Retailer-e-tailer partnerships can reduce competition when return handling and offline shopping costs hit specific thresholds. This reduced competition might lower consumer surplus, disadvantaging consumers.
- With clearer online reviews, firms lean towards disclosing product quality due to changing consumer behavior. The firm’s selling scheme choice hinges on factors like commission rates, with a bias towards quality disclosure.
- There’s evident information leakage around SEC filings, with stocks that surge before filing releases also rising post-release, and vice versa for declines. These price shifts aren’t due to momentum or past SEC technical issues, highlighting a new, previously unexplored 30-minute trend.

ACADEMIC SERVICE

**Session Co-Chair** for 33rd Annual POMS-Conference  
**Journal Reviewer** for Production and Operations Management  
**Conference Reviewer** for ICIS, CIST, CSWIM

PHD COURSEWORK

**Information Systems**

- Advanced Research Topics in Information Systems I Yong Tan  
Topics: (Latent) Instrumental Variables, Discrete Choice Models, Bayesian Learning, Hidden Markov Models
- Advanced Research Topics in Information Systems II Yingfei Wang  
Topics: Machine Learning, Text Mining, Deep Learning, Computer Vision, Reinforcement Learning
- Advanced Research Topics in Information Systems III Debabrata “Deb” Dey  
Topics: Digital Piracy, Economics of Information Systems

**Operations Management**

- Stochastic Process Foad Iravani  
Topics: Renewal Theory, Discrete & Continuous time Markov chains, Stochastic Dominance
- Stochastic Models and Queuing Kamran Moinszadeh  
Topics: Deterministic Queues, Bounds and Approximations, Networks, Series & Cyclic Queues, Stochastic Simulation

- Advanced Topics in Inventory Management Kamran Moinzadeh  
Topics: Period Review Models/Lot Sizing/Just in Time Systems, Contracts and Channel Coordination, Multi-Echelon Inventory Systems

### **Economics & Econometrics & Statistics**

Microeconomics I	Quan Wen
Microeconomics II	Xu Tan and Jacques Lawarree
Microeconomics III	Jacques Lawarree
Econometrics I	Thomas Richardson
Econometrics II	Jing Tao
Econometrics III	Eric Zivot
Empirical Industrial Organization	Yuya Takahashi
Design and Analysis of Experiments	Tim Skalland

### **Computer Science**

Machine Learning	Kevin Jamieson
Interactive Learning	Kevin Jamieson

### **COURSES TAUGHT**

#### **As Teaching Assistant**

TMMBA 516 Operations And Supply Chain Management (4.7/5)	AU 2021/22
QMETH 510 Probability And Statistics (4.6/5)	AU 2021/22 & WI 2022/23
SCM 512 Spreadsheet Modeling For Business Enterprise (4.8/5)	SU 2022
SCM 501 Probability And Statistics (4.6/5)	SU 2022
SCM 520 Forecasting, Inv. Management, And Supply Chain Analytics (4.7/5)	WI 2022/23
EMBA 510 Statistics For Management	SP 2022
BUS AN 512 Data Management And SQL	SU 2021
IS 300 Intro to Information Systems	SP 2021
QMETH 500 Statistical Data Analysis For Management	WI 2021
OPMGT 565 Business Analytics-Tools For Big Data	AU 2020
SCM 530 Managing And Mining Big Data	AU 2020
QMETH 201 Introduction To Statistical Methods	WI 2020 & SP 2020

### **PROFICIENCIES Skills**

Python, R, SAS, SQL,  $\text{\LaTeX}$ , Stata, Mathematica, Maple, Microsoft Office

#### **Languages**

English (fluent), Chinese (native)

## REFERENCES

### **Yong Tan**

Professor of Information Systems  
Foster School of Business  
University of Washington  
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### **Lin Hao**

Associate Professor of Information  
Technology and Operations  
Gabelli School of Business  
Fordham University  
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### **Shi Chen**

Associate Professor of Operations Manage-  
ment  
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### **Wanning Chen**

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