

Mingrui (Ray) Zhang

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| EDUCATION | University of Washington, Michael G. Foster School of Business Doctor of Philosophy in Business Administration, Operations Management Minors: Information Systems, Economics Research Methods Advisors: Yong Tan, Shi Chen Columbia University in the City of New York Master of Arts in Economics University of Illinois at Urbana-Champaign 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 | Research Focus E-commerce, Consumer Behaviors, Crowdfunding, Fin-tech Methodology Game-theoretical Model, Econometrics, Economic Theories, Causal Inference, Large Language Models, Machine Learning | |
| RESEARCH EXPERIENCE | Research Papers <ul style="list-style-type: none">• “Harnessing Tensor Completion with Geo-location: Impacts of Smart Vending Machines in Urban Landscapes”(with Wanning Chen, Yong Tan, Xusen Cheng) Working Paper• “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>• “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• “When to Disclose Product Quality under Online Reviews?” (with He Huang, Yufeng Yang, Hongyan Xu, Tingting Nian) Preparing for journal submission• “Information Leakage Prior to SEC Form Filings—Evidence from TAQ Millisecond Data” (with Steven Wei Ho, Weiting Hong) Working Paper• “The Gamer-Developer Feedback Loop: Navigating Review Dynamics in Digital Marketplaces” (with Yingda Lu) Ongoing Project• “Contract Design for Cloud Services with Privacy and Security Concerns”(with Hongyan Xu, Ying Wang, Shi Chen) Ongoing Project | |
| CONFERENCES PRESENTATIONS | <ul style="list-style-type: none">• “Contract Design for Cloud Services with Privacy and Security Concerns” 33rd Annual POMS-Conference• “Uncovering Demand Information and Consumer behaviors — Evidence from Vending Ma- | May 2023 |

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| | chine 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 | <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Stochastic Process Foad Iravani Topics: Renewal Theory, Discrete & Continuous time Markov chains, Stochastic Dominance Stochastic Models and Queuing Kamran Moinzadeh 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

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| 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

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| Machine Learning | Kevin Jamieson |
| Interactive Learning | Kevin Jamieson |

**COURSES
TAUGHT**

As Teaching Assistant

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| TMMBA 516 Operations And Supply Chain Management (4.7/5) | AU 2021/22 |
| Q METH 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 |
| Q METH 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 |
| Q METH 201 Introduction To Statistical Methods | WI 2020 & SP 2020 |

PROFICIENCIES Skills

Python, R, SAS, SQL, \LaTeX , Stata, Mathematica, Maple, Microsoft Office

Languages

English (fluent), Chinese (native)