

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: Shi Chen, Yong Tan	June 2024 (Expected)
	Columbia University Master of Arts in Economics	Dec 2018 GPA 3.80/4.00
	University of Illinois at Urbana-Champaign Bachelor of Science in Mathematics and Economics Graduated with High Distinction in Mathematics and Distinction in Economics	May 2017 Major GPA: 3.92/4.00
RESEARCH INTERESTS	Research Focus Retail platform, Online reviews, Consumer behaviors, Crowdfunding Methodology Game-theoretical Model, Econometrics, Economic Theories, Natural language processing, Experimental Design, Machine Learning, Causal Inference	
PROJECTS	Working Papers <ul style="list-style-type: none">• “Frenemies in Retail Markets: Brick-and-Mortar Retailer’s Partnership with Online Retail Platforms on Consumer Returns” (with Lin Hao, Yong Tan)<ul style="list-style-type: none">• Identified that the “loop-conversion effect” indicates that the partnership on consumer return, together with the brick-and-mortar retailer’s showrooming service, brings extra demand for the online retail platform.• Showed that the “traffic-exchange effect” indicates that the partnership undercuts the online retail platform’s benefit from showrooming.• “When to Disclose Product Quality under Online Reviews?” (with He Huang, Yufeng Yang, Hongyan Xu, Tingting Nian)<ul style="list-style-type: none">• Set up a stylized model to examine the interplay between two solutions under two selling schemes: wholesale and agency selling.• Showed that the firm is more likely to disclose quality when online review information becomes increasingly precise due to the loss of consumers who transfer from the not search but purchase group to the search but not purchase group• “Information Leakage Prior to SEC Form Filings—Evidence from TAQ Millisecond Data” (with Steven Wei Ho, Weiting Hong)<ul style="list-style-type: none">• Analyzing the time-stamps of all SEC form filings as well as the stock prices in the 30-minute interval pre- and post-publication by utilizing the TAQ millisecond data.• Found strong evidence of information leakage in the 30-minute intervals around Edgar acceptance timestamp of corporate SEC filings using TAQ Millisecond Data, and results are not driven by momentum. Ongoing Projects <ul style="list-style-type: none">• “Uncovering the effect of Smart Vending Machine? —A Tensor Completion approach using Transactions and Geo-location Data”(with Yong Tan, Waning Chen, Xusen Cheng)• “Time for Next Project? Effects of Users’ Opinion on Developers” (with Yingda Lu)• “Contract Design for Cloud Services with Privacy and Security Concerns”(with Hongyan Xu, Ying Wang)	

	<ul style="list-style-type: none"> • “Projects We Love: Atypicality versus Popularity on Crowdfunding Platforms” (with Yu Kan, Yifan Yu) 	
CONFERENCES PRESENTATIONS	<ul style="list-style-type: none"> • “Uncovering Demand Information and Consumer behaviors — Evidence from Vending Machine Transactions” 2022 INFORMS Annual Meeting Indianapolis • “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 • “Information Leakage Prior to SEC Form Filings—Evidence from TAQ Millisecond Data” American Finance Association 2020 Annual Meeting San Diego 	<p>October 2022</p> <p>November 2020</p> <p>January 2020</p>
AWARDS AND HONORS	<p>ISOM Outstanding Teaching Award, UW Foster</p> <p>Richard B. Peterson Ph.D. Fellowship, UW Foster</p> <p>Michael G. Foster Students First Scholar, UW Foster</p> <p>Edmund J James Scholar, UIUC</p> <p>Dean’s List, UIUC</p>	<p>2022</p> <p>2020 & 2021</p> <p>2019 & 2022</p> <p>2014-2017</p> <p>FA 13/15/16 SP 16</p>
ACADEMIC SERVICE	<p>Journal Reviewer for Production and Operations Management</p> <p>Conference Reviewer for ICIS, CIST, CSWIM</p>	
PHD COURSEWORK	<p>Information Systems</p> <ul style="list-style-type: none"> • Advanced Research Topics in Information Systems I Topics: (Latent) Instrumental Variables, Discrete Choice Models, Bayesian Learning, Hidden Markov Models • Advanced Research Topics in Information Systems II Topics: Machine Learning, Text Mining, Deep Learning, Computer Vision, Reinforcement Learning • Advanced Research Topics in Information Systems III Topics: Digital Piracy, Economics of Information Systems <p>Operations Management</p> <ul style="list-style-type: none"> • Stochastic Process Topics: Renewal Theory, Discrete & Continuous time Markov chains, Stochastic Dominance • Stochastic Models and Queuing Topics: Deterministic Queues, Bounds and Approximations, Networks, Series & Cyclic Queues, Stochastic Simulation • Advanced Topics in Inventory Management Topics: Period Review Models/Lot Sizing/Just in Time Systems, Contracts and Channel Coordination, Multi-Echelon Inventory Systems <p>Economics & Econometrics & Statistics</p> <p>Microeconomics I</p> <p>Microeconomics II</p> <p>Microeconomics III</p> <p>Econometrics I</p> <p>Econometrics II</p> <p>Econometrics III</p> <p>Empirical Industrial Organization</p> <p>Design and Analysis of Experiments</p>	<p>Yong Tan</p> <p>Yingfei Wang</p> <p>Debabrata “Deb” Dey</p> <p>Foad Iravani</p> <p>Kamran Moinszadeh</p> <p>Kamran Moinszadeh</p> <p>Quan Wen</p> <p>Xu Tan and Jacques Lawarree</p> <p>Jacques Lawarree</p> <p>Thomas Richardson</p> <p>Jing Tao</p> <p>Eric Zivot</p> <p>Yuya Takahashi</p> <p>Tim Skalland</p>

Computer Science

Machine Learning
Interactive Learning

Kevin Jamieson
Kevin Jamieson

**COURSES
TAUGHT****As Teaching Assistant**

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, Stata, Mathematica, Maple, Microsoft Office

Languages

English (fluent), Chinese (native)