

# Mingrui (Ray) Zhang

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ACADEMIC APPOINTMENTS	<b>Daniels College of Business, University of Denver</b> Assistant Professor Department of Business Information and Analytics	September 2024 -
EDUCATION	<b>University of Washington, Michael G. Foster School of Business</b> Doctor of Philosophy in Business Administration, Information Systems Minors: Microeconomics, Econometrics, Research Methods Advisor: Yong Tan	August 2024
	<b>Columbia University in the City of New York</b> Master of Arts in Economics	Dec 2018 GPA 3.80/4.00
	<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	May 2017 Major GPA: 3.92/4.00
RESEARCH INTERESTS	<b>Research Focus</b> Consumer Behaviors, Fin-tech, Innovations, E-commerce <b>Methodology</b> Causal Inference, Machine Learning, Large Language Models, Game-theoretical Model, Econometrics, Economic Theories	
RESEARCH PROJECTS	<b>Research Papers</b> <ul style="list-style-type: none"><li>• “Impacts of Smart Vending Machines in Different Urban Settings - Tensor Completion with Spatiotemporal Data”(with Wanning Chen, Yong Tan, Xusen Cheng) Preparing for journal submission</li><li>• “Investor Learning in Crowdfunded Supply Chain Finance Markets”(with Zhijin Zhou, Shengsheng Xiao, Yi-Chun (Chad) Ho, Yong Tan) Accepted 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 [<a href="#">Online Appendix</a>]</li><li>• “Afraid of Niche, Tired of Mass: Atypical Idea Combination on Crowdfunding Platform” (with Yu Kan, Yifan Yu, Yang Jiang, Yong Tan) Revise and Resubmit at <i>Journal of Management Information Systems</i></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” (with Steven Wei Ho, Weiting Hong) Preparing for journal submission</li><li>• “The Gamer-Developer Feedback Loop: Navigating Review Dynamics in Digital Marketplaces” (with Yingda Lu) Ongoing Project</li><li>• “From IVR to LLMs: Examining the Privacy Implications of LLMs-Powered Telemarketing</li></ul>	

Robots” (with Yu Kan, Fengwen Chen)  
Ongoing Project

CONFERENCES PRESENTATIONS	<ul style="list-style-type: none"> <li>• “Impacts of Smart Vending Machines in Different Urban Settings: Tensor Completion with Spatiotemporal Data” 2024 INFORMS Annual Meeting Seattle October 2024</li> <li>• “Information Leakage Prior to SEC Form Filings—Evidence from TAQ Millisecond Data” 2024 INFORMS Annual Meeting Seattle October 2024</li> <li>• “Tensor Completion with Spatiotemporal Data: Impacts of Smart Vending Machines in Different Urban Settings” 34th Annual POMS Conference April 2024</li> <li>• “Information Leakage Prior to SEC Form Filings—Evidence from TAQ Millisecond Data” 2024 Midwest Finance Association Annual Meeting March 2024</li> <li>• “Harnessing Tensor Completion with Geo-location: Impacts of Smart Vending Machines in Urban Landscapes” 2023 INFORMS Annual Meeting Phoenix October 2023</li> <li>• “Contract Design for Cloud Services with Privacy and Security Concerns” 33rd Annual POMS-Conference May 2023</li> <li>• “Uncovering Demand Information and Consumer behaviors — Evidence from Vending Machine Transactions” 2022 INFORMS Annual Meeting Indianapolis October 2022</li> <li>• “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</li> <li>• “Information Leakage Prior to SEC Form Filings—Evidence from TAQ Millisecond Data” American Finance Association 2020 Annual Meeting San Diego January 2020</li> </ul>
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"> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> </ul>
ACADEMIC SERVICE	<b>Journal Reviewer</b> Production and Operations Management (POM), Information Systems Research (ISR)

**Conference Reviewer** ICIS, CIST, CSWIM, AMCIS  
**Session Chair** POMS

PHD	<b>Information Systems</b>	
COURSEWORK	<ul style="list-style-type: none"> <li>Advanced Research Topics in Information Systems I Topics: (Latent) Instrumental Variables, Discrete Choice Models, Bayesian Learning, Hidden Markov Models Yong Tan</li> <li>Advanced Research Topics in Information Systems II Topics: Machine Learning, Text Mining, Deep Learning, Computer Vision, Reinforcement Learning Yingfei Wang</li> <li>Advanced Research Topics in Information Systems III Topics: Digital Piracy, Economics of Information Systems Debabrata “Deb” Dey</li> </ul>	
	<b>Operations Management</b>	
	<ul style="list-style-type: none"> <li>Stochastic Process Topics: Renewal Theory, Discrete &amp; Continuous time Markov chains, Stochastic Dominance Foad Iravani</li> <li>Stochastic Models and Queuing Topics: Deterministic Queues, Bounds and Approximations, Networks, Series &amp; Cyclic Queues, Stochastic Simulation Kamran Moinzadeh</li> <li>Advanced Topics in Inventory Management Topics: Period Review Models/Lot Sizing/Just in Time Systems, Contracts and Channel Coordination, Multi-Echelon Inventory Systems Kamran Moinzadeh</li> </ul>	
	<b>Economics &amp; Econometrics &amp; Statistics</b>	
	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
	<b>Computer Science</b>	
	Machine Learning	Kevin Jamieson
	Interactive Learning	Kevin Jamieson
COURSES	<b>As Instructor</b>	
TAUGHT	IS 451 Business Data Analytics	WI 2024
	<b>As Teaching Assistant</b>	
	MSIS 541 Advanced and Unstructured Data Mining	SP 2023
	MSIS 521 Information Technology And Marketing In The New Economy	WI 2022/23
	MSIS 511 Digital Transformation Of Organizations	SP 2021/22/23
	MSIS 524 Managing Information Technology Projects	SP 2021/22/23
	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
	BUS AN 512 Data Management And SQL	SU 2021 & SP 2023
	EMBA 510 Statistics For Management	SP 2022
	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, L<sup>A</sup>T<sub>E</sub>X, Stata, Mathematica, Maple, Microsoft Office

**Languages**

English (fluent), Chinese (native)

REFERENCES

**Yong Tan**

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