Mingrui (Ray) Zhang

Daniels College of Business (DCB) 315E, 2101 S. University Blvd., Denver, CO 80210

Phone: 303-871-4822, Email: mingrui.zhang@du.edu Website: https://mingruirayzhang.github.io/

ACADEMIC Daniels College of Business, University of Denver

September 2024 -

APPOINTMENTS

Assistant Professor

Department of Business Information and Analytics

EDUCATION

University of Washington, Michael G. Foster School of Business

August 2024

Doctor of Philosophy in Business Administration, Information Systems

Minors: Microeconomics, Econometrics, Research Methods

Advisor: Yong Tan

Columbia University in the City of New York

Dec 2018

Master of Arts in Economics

GPA 3.80/4.00

University of Illinois at Urbana-Champaign

May 2017

Bachelor of Science in Mathematics and Economics

Major GPA: 3.92/4.00

Graduated with High Distinction in Mathematics and Distinction in Economics

RESEARCH

Research Focus

INTERESTS

Consumer Behaviors, Fin-tech, Innovations, E-commerce

Methodology

Game-theoretical Model, Econometrics, Economic Theories, Causal Inference, Large Language Models, Machine Learning

RESEARCH

Research Papers

PROJECTS

- "Impacts of Smart Vending Machines in Different Urban Settings Tensor Completion with Spatiotemporal Data" (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)

Accepted at Production and Operations Management

• "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 [Online Appendix]

• "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 Journal of Management Information Systems

• "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)

Preparing for journal submission

• "The Gamer-Developer Feedback Loop: Navigating Review Dynamics in Digital Marketplaces" (with Yingda Lu)

Ongoing Project

 "From IVR to LLMs: Examining the Privacy Implications of LLMs-Powered Telemarketing Robots" (with Yu Kan, Fengwen Chen) Ongoing Project

CONFERENCES PRESENTATIONS

• "Impacts of Smart Vending Machines in Different Urban Settings: Tensor Completion with Spatiotemporal Data"

2024 INFORMS Annual Meeting Seattle

October 2024

- "Information Leakage Prior to SEC Form Filings—Evidence from TAQ Millisecond Data"
 2024 INFORMS Annual Meeting Seattle
 October 2024
- "Tensor Completion with Spatiotemporal Data: Impacts of Smart Vending Machines in Different Urban Settings"

34th Annual POMS Conference

April 2024

• "Tensor Completion with Spatiotemporal Data: Impacts of Smart Vending Machines in Different Urban Settings"

34th Annual POMS Conference

April 2024

- "Information Leakage Prior to SEC Form Filings—Evidence from TAQ Millisecond Data"
 2024 Midwest Finance Association Annual Meeting
 March 2024
- "Harnessing Tensor Completion with Geo-location: Impacts of Smart Vending Machines in Urban Landscapes"

2023 INFORMS Annual Meeting Phoenix

October 2023

• "Contract Design for Cloud Services with Privacy and Security Concerns"

33rd Annual POMS-Conference

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

Richard B. Peterson Ph.D. Fellowship, UW Foster

Michael G. Foster Students First Scholar, UW Foster

Edmund J James Scholar, UIUC

Dean's List, UIUC

2022

2020 & 2021 2019 & 2022

FA 13/15/16 SP 16

2017 & 2022

2014-2017

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

Journal Reviewer Production and Operations Management (POM), Information Systems Research (ISR)

Conference Reviewer ICIS, CIST, CSWIM, AMCIS

Session Chair POMS

PHD

Information Systems

COURSEWORK

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 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 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

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

Computer Science

Machine Learning Kevin Jamieson Interactive Learning Kevin Jamieson

Courses

As Instructor

TAUGHT IS 451 Business Data Analytics

WI 2024

As Teaching Assistant

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	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, 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 ytan@uw.edu 206-616-6785

Shi Chen

Associate Professor of Operations Management Foster School of Business University of Washington shichen@uw.edu 206-543-7694

Lin Hao

Associate Professor of Information Technology and Operations Gabelli School of Business Fordham University Ihao6@fordham.edu 212-636-6103

Wanning Chen

Assistant Professor of Information Systems Foster School of Business University of Washington wnchen@uw.edu 206-543-1046