Qian Jia

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RESEARCH AREAS

Decision Making Under Uncertainty, Business Analytics, Machine Learning, Reinforcement Learning,

Cybersecurity, Omnichannel Strategies, Live Commerce

EDUCATION

Ph.D. 2020-25	School of Business, Nanjing University, Nanjing, China *Business Administration (Management Information Systems)* Dissertation: "Security Patch Management for Enterprise Information Systems"
M.S. 2017-20	International Business School, Shaanxi Normal University, Xi'an, China *Technology Economics and Management*
B.S. 2013-17	School of Economics and Management, Chang'an University, Xi'an, China *Business Administration*

RESEARCH EXPERIENCE

2022-24	Visiting Scholar, The University of Texas at Dallas, Richardson, TX, USA Advisor: Syam Menon
2020-22	Research Assistant, Nanjing University, Nanjing, China Advisor: Zhengrui (Jeffrey) Jiang
2017-20	Research Assistant, Shaanxi Normal University, Xi'an, China Advisor: Xue Li

WORKING PAPERS

Jia, Q., Lin, L. "Optimal Live Selling Strategies for Brands: The Role of Effort Costs." *Information Technology and Management* (JCR: Q2, Impact Factor: 2.3), forthcoming.

Jia, Q., Jiang, Z., Menon, S. "Enabling Ultra-Fast Online Order Fulfillment: Efficient Inventory Management for Micro-Fulfillment Centers." *INFORMS Journal on Computing*, under revision for the 3rd round review.

Jia, Q., Qu, X., Jiang, Z. "A Dynamic Patching Policy for Enterprise Information Systems." *Production and Operations Management*, under revision for the 2nd round review.

CONFERENCE PAPERS AND PRESENTATIONS

2024	Jia, Q., Qu, X., Jiang, Z., Wang, C. "Enterprise Security Patch Management with Deep Reinforcement Learning." *International Conference on Information Systems (ICIS) 2024*. Bangkok, Thailand. Dec 15–18.

2024	Jia, Q., Jiang, Z., Wang, C. "Security Patch Management with Action-Decomposed Reinforcement Learning." *Conference on Information Systems and Technology (CIST) 2024*. Seattle, WA. Oct 19–20.
2023	Jia, Q., Menon, S., Jiang, Z. "Security Patch Management Based on Multi-Agent Reinforcement Learning." *2023 INFORMS Annual Meeting*. Phoenix, AZ. Oct 15–18.
2023	Jia, Q., Menon, S., Jiang, Z. "Micro-Fulfillment Center Inventory Policies for Digital Grocery Ecosystem." *PACIS 2023*. Nanchang, China. Jul 8–12.
2023	Jia, Q., Qu, X., Jiang, Z. "Pioneer or Laggard? Optimal Timing of Enterprise System Patching." *POMS 33rd Annual Conference*. Orlando, FL. May 21-25.
2021	Jia, Q., Qu, X., Jiang, Z. "A Dynamic Patching Policy for Enterprise Information Systems." *CSWIM 2021*. Online. Jun 26–28. *Best Workshop Paper Award (Runner-Up)*
2019	Li, X., Jia, Q., Chen, X., Fan, X. "Factors Affecting Consultation Volume in an Online Healthcare Community: Evidence from Online Data in China." *WHICEB 2019*. Wuhan, China. May 24–26.

RESEARCH IN PROGRESS

Jia, Q., Qu, X., Jiang, Z., Wang, C. "Reinforcement Learning-Based Patching Policy for Enterprise Information Systems." *Status: Manuscript in preparation for submission*.

Jia, Q., Jiang, Z. "Joint Optimization of Security Patch Release and Deployment: A Multi-Agent Reinforcement Learning Approach." *Status: Manuscript in preparation for submission*.

AWARDS AND HONORS

2021	Best Workshop Paper Award (Runner-Up), The 14th China Summer Workshop on Information Management (CSWIM).
2020-23	Graduate Student Scholarship, Nanjing University.
2019	Outstanding Graduate Student Award, Shaanxi Normal University.
2019	Graduate Student Leadership Award, Shaanxi Normal University.
2017-19	Graduate Student Scholarship, Shaanxi Normal University.

SERVICE

Conference Sessions Organized

2024	"Emerging Technology and Decision Analysis." *Decision Analysis Cluster, 2024 INFORMS Annual Meeting*. Seattle, WA. Oct 20–23.

Conference Peer Review

2024	Conference on Information Systems and Technology (CIST)
2024	International Conference on Information Systems (ICIS)
2023	Pacific Asia Conference on Information Systems (PACIS)

MEMBERSHIPS

Institute for Operations Research and the Management Sciences

Association for Information Systems

Production and Operations Management Society

LANGUAGES AND SKILLS

English, Chinese

Python, R, Mathematica, LaTeX

REFERENCES

Zhengrui (Jeffrey) Jiang

Professor of Information Systems

School of Management and Economics, The Chinese University of Hong Kong, Shenzhen

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Syam Menon

Professor and Area Coordinator of Information Systems

Naveen Jindal School of Management, The University of Texas at Dallas

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Xinxue (Shawn) Qu

Assistant Professor of IT, Analytics, and Operations

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Updated May 2025