

Yuxuan WANG

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(CV Updated: September, 2026)

Education

Cornell University	Ithaca, USA
<i>PhD Student in Operations, Technology, and Information Management</i>	Sept. 2026 - Current
Peking University	Beijing, China
<i>Master of Management</i>	Sept. 2023 - June 2026
• Major: Information Science, Department of Information Management	
Peking University	Beijing, China
<i>Bachelor of Management</i>	Sept. 2019 - June 2023
• Major: Big Data Management and Application, Department of Information Management	

Research Interests

Data Economy: Data marketplaces, data trading, data economy, AI-data ecosystem
AI & Machine Learning: Reinforcement learning, multi-agent systems, machine learning
Supply Chain: Supply chain system design, information sharing
Privacy & Platforms: Data privacy, platform economy
Blockchain: Blockchain applications, smart contracts

Honors and Awards

National Scholarship (<i>Highest honor for Chinese students</i>)	2024
Excellent Graduate Award of Peking University	2023
National Scholarship (<i>Highest honor for Chinese students</i>)	2023
Baosteel Scholarship	2022

Research Experience

Research Assistant Research on AI Firm Data Acquisition and Creator Ecosystem	2024 - Present
• Advisors: Prof. Lingxiu Dong (Washington University in St. Louis), Prof. Fasheng Xu (University of Connecticut)	
• Designed a two-period game theory model to analyze AI firms' data subsidy strategy and its impact on content creation ecosystem, examining the artificial AI ceiling brought by AI firms and the divergence from social welfare optimum.	
• Responsible for research design, model construction, numerical simulation, and paper writing.	
Research Assistant Peking University Knowledge Discovery Lab	2022 - 2026
• Advisors: Prof. Win-bin Huang, Prof. Fan Meng (Peking University)	
• Designed a two-layer Markov Decision Model to capture data service providers' strategic decisions in response to platform's dynamic consumer impression allocation, using Deep Deterministic Policy Gradient (DDPG) and Gated Recurrent Unit (GRU) for optimizing and mechanism parameters adjusting.	
• Responsible for leading research projects, lab daily management, and students' guidance.	

Publications & Working Papers

Published

3. **Wang, Y.**, Meng, F., & Huang, W. (2025). **Research on the analytical framework of data product transaction dilemma and its solution path.** *Library and Information Service*, 2025, 69(2): 67-86. DOI:10.13266/j.issn.0252-3116.2025.02.007. (peer-reviewed published)
2. **Wang, Y.**, Meng, F., & Huang, W. (2024). **Research on Data Trading Mechanism Based on Data Securitization.** *Procedia Computer Science*, 242, 1066-1073. (peer-reviewed published)
 - *11th International Conference on Information Technology and Quantitative Management (ITQM 2024) (Best Paper)*
1. **Wang, Y.**, Luo, L., & Li, G. (2023). **Research on Intelligent Organization and Application of Multi-source Heterogeneous Knowledge Resources for Energy Internet.** *Data Intelligence*, 5(1), 75-99. (JCR Q2) (peer-reviewed published)

Working Papers

Artificial Ceilings: The Ouroboros of Data in Generative AI Ecosystems

- with Prof. Lingxiu Dong (WashU), Prof. Fasheng Xu (UConn), and Prof. Xinxin Li (UConn)

Data Market Construction Based on Multi-agent Reinforcement Learning

- with Prof. Win-bin Huang (Peking University), and Prof. Fan Meng (Peking University)

Patents

An intelligent fusion method of heterogeneous knowledge resources (CN202210864447)

A method for generating ontology intelligence (CN202210864480)

Entrepreneurial Experiences

Dataverge (Founder)

Nov. 2023 - Nov. 2025

Established a multinational consultancy delivering data intelligence solutions, with colleagues from Canada, Australia, and Indonesia.

- **Smart City Consulting (Dubai)** Nov. 2023 - June 2024
 - Advised on the architectural planning for the "Digital Dubai" SuperApp, focusing on user ecosystem integration and service digitization.
- **Agricultural Company Digitalization (Indonesia)** Dec. 2024 - Oct. 2025
 - Built a data infrastructure for crude palm oil trade; implemented predictive algorithms for price trends and yield forecasting.
- **FinTech Security System (Indonesia)** June 2025 - Nov. 2025
 - Led the development of a real-time fraud detection system for a digital bank, utilizing machine learning to identify anomalous transaction patterns.
- **Featured Exhibitor**, China International Fair for Trade in Services (CIFTIS) 2025 Sept. 2025

Miscellaneous

Technical Skills: Python (PyTorch, TensorFlow, SciPy, Matplotlib), R, STATA, Docker, HTML+CSS+Javascript

Interests: Rowing (former Peking University Rowing Team member), Skipping, Violin