

WANG Meiyi (Kelsey)

Ph.D. Student in Management Science and Engineering

Beijing Institute of Mathematical Sciences and Applications (BIMSA) & University of Chinese Academy of Sciences (UCAS)

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Ph.D. researcher working at the intersection of interpretable financial machine learning, digital finance, algorithmic governance, and agent-based economic modelling. Experience spans financial prediction, banking and monetary-policy transmission, textual data, knowledge graphs, retrieval-augmented generation, and multi-agent systems.

Research Interests

Interpretable financial machine learning; financial text and market liquidity; digital finance and bank behaviour; AI and financial regulation; platform economics; agent-based computational economics.

Education

2024 - 2028 (expected)	Ph.D. in Management Science and Engineering University of Chinese Academy of Sciences & BIMSA Supervisor: Professor Liyan Han
2022 - 2024	Master of Finance University of Chinese Academy of Social Sciences Supervisor: Professor Zhentao Yin
2017 - 2021	Dual Bachelor's Degrees in Economics and Law Xi'an Jiaotong University

Research and Professional Experience

May 2025 - Present	AI and Knowledge Engineering Intern, Qingyan Technology (Beijing) Develop ontology and knowledge-graph components; perform entity-relation extraction, knowledge cleaning and fusion, vector retrieval, RAG pipeline development, agent orchestration, and evaluation.
Apr - Jun 2024	Research Intern, CCID Research Institute Conducted research on integrated circuits, technology industries, and industrial policy; collected, structured, and analysed multi-source sector data.
2019 - 2022	Teaching Assistant and Interpreter, Civic Ecology Lab, Cornell University Supported course delivery, bilingual communication, teaching materials, and learner coordination.

Selected Research Projects

Illegal Securities Activity Monitoring: National Key R&D project; developed multi-source data, semantic extraction, risk-label, LLM, and agent-based monitoring components.

Algorithm Governance and Digital-Economy Antitrust: NSFC projects using game theory and multi-agent simulation to study platform strategy, regulation, and welfare.

FinTech Measurement and Digital Finance: applied entropy weighting, XGBoost, Random Forest, and SHAP to index construction, prediction, and heterogeneous-effect analysis.

WANG Meiyi

Selected Research Outputs

Peer-Reviewed and Published Work

- Wang, Y., Wang, M., and Wu, S. "Commercial Bank Digital Transformation and Monetary-Policy Credit Transmission Efficiency." China Soft Science, 2025(4), 196-204. (In Chinese)
- Yin, Z. and Wang, M. "Enhancing Digital Finance Capacity to Support Rural Revitalization." China Finance, 2024(5). (In Chinese)
- Yin, Z., Wang, Y., and Wang, M. "Progress, Challenges, and Policy Responses in China's Financial Data Governance." In China Financial Regulation Report 2024, Social Sciences Academic Press, 2024. (In Chinese)
- Yin, Z. and Wang, M. "Artificial Intelligence Challenges Financial Regulation." China Forex, 2023. (In Chinese)

Working Papers and Manuscripts

- "Interpretable Liquidity Prediction in U.S. Equity Markets with Multi-source Financial Sentiment." Manuscript.
- "Intelligent Identification of Stock-Market Tail Risk Using Multidimensional Transaction-Feature Representation." Manuscript.
- "Agent-Based Modelling and Algorithmic Regulation of Online Labour Platforms." Manuscript.
- "Robotaxi Governance: A Multi-Agent Evolutionary-Game Approach." Research in progress.

Selected Academic Presentations

13 Mar 2026	Antitrust-Regulated Two-Period Pricing in Community Group-Buying with Heterogeneous Group Leaders BIMSA seminar; dynamic pricing, game theory, platform expansion, and welfare analysis.
23 May 2025	Commercial Bank Digital Transformation and Monetary-Policy Credit Transmission Efficiency BIMSA seminar; empirical analysis of Chinese commercial-bank data from 2010 to 2021.

Teaching

2024	Teaching Assistant, Machine Learning and Causal Inference Selected for the course teaching-assistant team; supported quantitative-methods instruction and course coordination.
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Methods and Technical Skills

Programming: Python, Stata, MATLAB | Machine Learning: Random Forest, XGBoost, SHAP, model evaluation
Language and Knowledge Systems: NLP, entity-relation extraction, knowledge graphs, vector retrieval, RAG
Computational Research: agent orchestration, multi-agent simulation, panel-data analysis, reproducible workflows

Honours and Awards

2024	First Prize in Beijing, National English Competition for College Students (Band A)
2024	Second Prize, Case Competition of the School of Applied Economics
2023	National Graduate Scholarship
2023	Third Prize, First Finance Master Case Competition
2020	Outstanding Student Certificate, United Nations International-Organization Talent Programme
2020	Advanced Individual in Social Activities