

Mengqi Wei

Third-Year Undergraduate in Quantitative Economics and Finance

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Education

Xi'an Jiaotong University (XJTU), Jinhe Center for Economic Research	2025.09 – Present
Third-Year Undergraduate in Quantitative Economics and Finance	Expected June 2028
Sophomore Year GPA: 90.73 / 100 Sophomore Rank: 1 / 22	
Xi'an Jiaotong University (XJTU), School of Mathematics and Statistics	2024.09 – 2025.07
First-Year Undergraduate in Mathematics	
Freshman Year GPA: 87.81 / 100 Freshman Rank: 3 / 109	
Xi'an Jiaotong University (XJTU), Qian Xuesen College	2022.09 – 2024.07
Pre-College, Special Class for the Gifted Young (SCGY)	
Pre-College GPA: 87.92 / 100 Overall Rank: 54 / 193	

Research Interests

- AI Exposure Measurement, Impacts of AI on Firm Decision-Making and Market Structure
- Industrial Organization (IO) and Empirical IO
- Macroeconomics and Macro-Finance

Working Papers & Research Projects

Adaptive Adjustment of Higher Education Majors Under LLM Shocks: Theoretical Modeling, Exposure Measurement, and Continuous DID Estimation	2026.02 – Present
<i>Research Training (Advised by Prof. Xiaodong Chen and Prof. Xiaoliang Yang) · Principal Investigator</i>	
• Extended the Acemoglu & Restrepo (2018) task framework to higher education supply; constructed a crosswalk mapping 101 occupational LLM exposures to 889 undergraduate majors. • Built a micro panel from 2015–2024 national major filings and 4.34 million provincial enrollment records; evaluated causal impacts using Continuous DID, Causal Forests, and trend-adjusted robustness checks.	
Firm Decision-Making and Market Structure Under Token and AI Agent Shocks: Cost Restructuring, Competitive Pass-Through, and Welfare Implications	2026
<i>Independent Research / Working Paper</i>	
• Abstracted Tokens and AI Agents as on-demand heterogeneous inputs, restructuring firm-level marginal and fixed cost functions. • Modeled market concentration, competitive dynamics, and consumer welfare under Cournot and Bertrand oligopolies with endogenous entry/exit and search frictions.	
Claim2Value: Financial AI Agent for Technical Claim Verification and Dynamic Valuation in Embodied AI Supply Chains	2026.08 – 2026.09
<i>PKU Financial AI Agent Competition · Economic & Financial Reasoning Lead / Core Developer</i>	
• Covered 11 core listed firms in humanoid robotics/embodied AI; built an end-to-end agent pipeline from unstructured technical claim extraction to multi-source verification and financial mapping. • Benchmarked 51 domain technical claims; structured causal chains (“technical metric → capacity/productivity → pricing/cost → gross margin”) to refute non-causal hype; developed dynamic three-scenario valuation models.	

Perceived Age Discrimination, Psychological Coping, and Policy Demands of Job Seekers Aged 35+ <i>National "Challenge Cup" Academic Competition · Core Researcher</i> Cleaned primary survey microdata; performed Principal Component Analysis (PCA) on coping strategies and utilized quantile regressions to test asymmetric penalties across wage distributions.		2025.12 – 2026.04
Heterogeneous Energy Price Pass-Through Across Consumption Structures Under Geopolitical Shocks <i>Undergraduate Innovation Research Program · Core Researcher</i> Compiled cross-country macroeconomic time-series panels to evaluate supply-side pass-through elasticities under geopolitical disruptions.		2026.04 – Present
AI4Learning Econ: Open-Source Lecture Notes and Academic Repository <i>Independent Open-Source Project · https://aeiou0123.github.io</i> Built and maintained an academic homepage curating structured lecture notes, exercise solutions, and course working papers covering Mathematical Analysis, Intermediate Micro/Macro, Econometrics, Game Theory, and Industrial Organization.		2025.08 – Present
Professional Experience		
CIB Research (Industrial Research) <i>Macro Market Department · Macroeconomic Research Intern</i> - Tracked high-frequency macro indicators and examined structural dynamics of China's "K-shaped" economic divergence. - Applied Ray Dalio's debt cycle framework to examine structural dynamics and deleveraging in the property market. - Monitored China-Europe trade flows and EU regulatory changes to evaluate macro and financial market impacts.		2026.07 – 2026.09
Coursework & Academic Preparation		
Core Economics & Finance: Intermediate Macroeconomics (100), Principles of Accounting (96), Intermediate Microeconomics (95), Principles of Finance (94), Financial Markets & Institutions (92)		
Mathematics & Statistics: Advanced Algebra & Analytic Geometry II (93), Applied Statistics (93), Probability Theory & Mathematical Statistics (92), University Physics (90), Mathematical Analysis (90/86)		
Advanced & Self-Study: Machine Learning, Deep Learning, Reinforcement Learning, Industrial Organization, Operations Research, Econometrics		
Honors & Awards		
National Scholarship (Ministry of Education, Top Undergraduate Honor)		2025 – 2026
First-Class Academic Scholarship, Xi'an Jiaotong University		2024 – 2025
National College Students Statistical Modeling Competition, Shaanxi Provincial 1st Prize		2026
National Digital Business Simulation Sandbox Competition for Universities, National 3rd Prize		2026
Skills & Languages		
Coding & Econometric Tools: Stata, Python, L^AT_EX, C (Basic working proficiency). AI-Native Workflows: Comfortable driving AI-assisted research and engineering workflows. Languages: Mandarin Chinese (Native); English (CET-6: 602 / 710).		