Yangyang (Claire) Meng

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Education

Zhejiang University (ZJU) — Hangzhou
B.A. in Economics; GPA 3.98/4.0 (rank 1st/34);   2021/09 – 2025/06 (expected)

- **Relevant Courses**:
  - ▸ Undergraduate-level courses: Advanced Econometrics, Industrial Organization Theory, Mathematical Economics, Game Theory, Partial Differential Equation, Complex Variable Functions and Integral Transformation, Stochastic Process, Probability and Mathematical Statistics, Linear Algebra, Calculous
  - ▸ Ph.D-level courses: Topics on Microeconometrics (Prof. Songnian Chen, ZJU)

University of Toronto (U of T) — Toronto
Visiting student   2024/08 – 2024/12 (expected)

- **Relevant Courses**:
  - ▸ Ph.D-level courses: Microeconomic Theory (Prof. Marcin Pęski, U of T), Industrial Organization (Prof. Yanyou Chen, U of T)

Research Experience

Driving the Drivers: Algorithmic Discrimination and Wage-Setting in Ride-Hailing
with Prof. Yanyou Chen (U of T), Prof. Yao Luo (U of T), and Prof. Zhe Yuan (ZJU)   2023/05 – 2023/07

- Utilized the Mobile App Automation tool Appium to assist in scraping ride details data from Amap
- Collected rainfall data from various counties and cities in China in recent years, to serve as an instrumental variable for the economic development level of hometowns for rideshare drivers

Demand for Clean Water in China
with Prof. Loren Brandt (U of T), Prof. Yao Luo (U of T), and Jian Zou (Cornell)   2024/05 – Present

- Scraped and collected basic information and shareholder data of over 10,000 sewage treatment companies from the Qichacha website
- Carried out a detailed onsite assessment at the Third Sewage Treatment Plant in Yanggu County, Shandong Province
- Developed an initial pricing model for the sewage treatment industry

Long-Term Contracts and Secondary Markets: Evidence from Natural Gas Pipelines
with Prof. Yanyou Chen (U of T), and Prof. Emmanuel Leclair (University of Chicago)   2024/10 – Present

- Developed detailed maps using QGIS to visualize the temporal changes in how various regions across the U.S. were impacted by the cold wave over time
- Conducted a staggered difference-in-differences analysis using R to examine the impact of the 2015 U.S. cold wave on trading behavior in the natural gas secondary market

E-Commerce, Taobao Villages and Urban-rural Income Gap
with Prof. Zhe Yuan (ZJU)   2023/03 – 2024/05

- Performed a systematic review of China's rural e-commerce policies and the impact of e-commerce on rural economic development
- Conducted field research at Hualian Village, a Chinese e-commerce demonstration village located in Sandun Town, Hangzhou
- Formulated an empirical econometric model based on the PSM-DID method

Exploring Sales Drivers in Live Streaming E-Commerce: the Interaction between Heterogeneity of Live Streamers and Demonstration Strategies
with Prof. Song Yuan (ZJU), and Prof. Zhe Yuan (ZJU)   2023/05 – 2024/02

- Web-scraped live-streaming data from 685,802 Douyin hosts, including user IDs, gender, geographic location based on IP, and merchandise details. The merchandise-related data includes item price, live sales volume, duration of explanation, and host commission rates, etc
- Constructed a consumer behavior model based on the SOR (Stimulus-Organism-Response) framework

Green Energy, Sustainable Development: Evidence from Solar Panels in Toronto Residential Areas
with Prof. Yao Luo (U of T), and Zhengluo Zhang   2024/07 – Present
- Used GIS tools and Python to segment satellite view footprints of Toronto into residential overhead views with unique identifiers
- Trained a classification model using the YOLO algorithm to automatically identify whether rooftops have solar panels

Work-in-progress

The Impact of Centralized Land Supply on Land Premiums: A Sequential Auction Analysis
solo-authored, online draft   2024/03 – Present
Keywords: *land supply*; *sequential auction*; *land premium*;
Abstract: This paper simulates the land auction market under the "centralized land supply" policy using a sequential auction model. It proposes that the reason for the continuous decline in land premium rates may be the high risk aversion of state-owned enterprises (SOEs). Additionally, a mathematical model is established to compare four different land transfer methods after the premium rate reaches its peak. The findings show that the expected profits of developers are the same in the cases of highest bid wins, bidding for retention, and bidding for construction. Finally, a difference-in-differences analysis of the land transfer data for 3,363 plots in 34 cities reveals that the centralized land supply policy reduces land premium rates, which aligns with the model conclusions.

Honors

- Provincial Government Scholarship (top 5%)
- 2021-2022 Zhejiang University Scholarship (top 8%)
- 2022-2023 Zhejiang University Scholarship (top 8%)

Skills

- Language proficiency: Chinese (native), English (fluent)
- Programming skills: Python, Stata, R, Matlab, Julia, QGIS, SAS, LaTex