

Jiangwei Liu

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EDUCATION

Renmin University of China

September 2021 - June 2025

B.E. in Data Science & B.A. in Agricultural Economics

Beijing, China

- **Coursework:** Advanced Algebra, Data Structures and Algorithms, Principles and Techniques of Data Science, Statistics, Intermediate Microeconomics, Development Economics, Environmental & Resource Economics
- Rank: 2/21
- Awarded Special Scholarship for Outstanding Undergraduate Studies

University of California, Berkeley

July 2023 - August 2023

Berkeley Summer Sessions

Berkeley, CA

- **Coursework:** Introduction to Finance, Academic Writing

RESEARCH EXPERIENCE

Digital Transformation in Agriculture

January 2024 - Now

Research Assistant, Peking University

- Participated in the Asian Development Bank (ADB) Technical Assistance project “Utilizing Digital Technologies to Promote Agricultural and Rural Transformation in China and Lessons for Other Developing Countries in Asia” (KSTA 6993-PRC S183927)
- Guided by Prof. Hongmei Yi and Prof. Jikun Huang
- Compiled literature on challenges posed by changes in China's rural demographic structure
- Identified digitalization strategies to address rural development challenges

Sanitary Infrastructure and Fertilizer Usage in Rural China

June 2023 - September 2023

Research Assistant, Renmin University of China

- Conducted regression analysis on the Fixed Observation Rural Survey dataset (2009-2018) to investigate the impact of indoor sanitary toilets on rural fertilizer usage
- Wrote results and discussion sections of the paper, highlighting the shift in fertilizer usage and its socio-economic implications

PM_{2.5} and Housing Price in Beijing

August 2022 - September 2023

Research Assistant, Renmin University of China

- Collaborated with Prof. H. Allen Klaiber and Assoc. Prof. Wei Chen
- Used Python to clean a dataset of 600k+ Beijing housing transactions spanning 120 months and 5,128 communities
- Leveraged ArcGIS to merge geocoded residential coordinates with high-resolution PM_{2.5} satellite data
- Applied a hedonic model with Stata and analysed spatial heterogeneity in air quality's economic impact

WORKING PAPERS

Jiangwei Liu, Wei Chen and H.Allen Klaiber. “Breath of the City: Unraveling the Economic Impact of Air Pollution on Housing Prices in Beijing.”

Wei Chen, Zhen Zhong, Jun Guo, Yangyang Gu and **Jiangwei Liu**. “The impact of toilet revolution on fertilizer usages in rural China.”

CONFERENCES AND PRESENTATIONS

Presenter. “The General and Spatially Differentiated Effects of Air Pollution on Housing Prices: A Large-sample Hedonic Analysis in Beijing.” North American Regional Science Conference. San Diego, California, United States. 2023.

SKILLS

Programming Languages: Python, Stata, R, C/C++, SQL

Geospatial Tools: ArcGIS, GeoDa

AI/ML: PyTorch, sklearn, ChatGPT

Scientific Writing & Visualization: LaTeX, Visio, Gephi

Languages: Chinese Mandarin (mother tongue), English (TOEFL 99)