

EDUCATION

- **Renmin University of China** September 2021 - present
B.E. in Big Data Technology & B.A. in Agricultural Economics GPA: 3.67
Courses: C++ Programming(A), Advanced Algebra, Principles and Techniques of Data Science, Development Economics, Environmental & Resource Economics
- **University of California, Berkeley** July 2023 - August 2023
Berkeley Summer Sessions
Courses: Introduction to Finance , Academic Writing

RESEARCH EXPERIENCE

- **Impact of Urban Road Expansion on Air Pollution in Chinese Cities** June 2023 - present
Undergraduate Research Assistant, Renmin University of China
– Collected road traffic and economic data across 39 Chinese cities.
– Constructed instrumental variables with **Mahalanobis distance matching** strategy.
– Employed regression analysis with IVs and explored various heterogeneities in the impact.
- **Relationship between PM_{2.5} and Housing Price and its Spatial Heterogeneity in Beijing** August 2022 - September 2023
Undergraduate Research Assistant, Renmin University of China
– Collaborated with Prof. **H. Allen Klaiber** (Graduate Studies Chair, Ohio State University) and As-soc. Prof. **Wei Chen** (Renmin University of China)
– 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 and subway station locations.
– Applied a hedonic model with **Stata**, finding a 0.0531% housing price drop per 1 $\mu\text{g}/\text{m}^3$ PM_{2.5} increase, and analysed spatial heterogeneity in air quality's economic impact.
- **Impact of Agricultural Enterprise-Household Collaboration on Enterprise Performance** January 2022 - March 2022
Research Assistant, Ministry of Agriculture and Rural Affairs
– Cleaned a dataset covering 1,733 agricultural enterprises across 13 years, calculating performance indicators like ROI and ROA.
– Catalogued the cooperation methods between enterprises and local farmers, merging this data into the primary dataset.
– Conducted regression analysis using **multinomial probit model**, computing the marginal effects of independent variables.

CONFERENCES AND PRESENTATIONS

- “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.

TECHNICAL SKILLS

Programming: Python, C/C++, SQL, Java, Html, JavaScript

Statistical analysis: Stata, R Studio, Matlab, Spss

Spatial econometrics: ArcGIS, GeoDa

AI/ML: PyTorch, CNN, LSTM, ChatGPT

Scientific writing and plotting: LaTeX, Visio, Origin