

Enqi Zhang

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Education

Nanjing University (NJU): <i>GPA (89/100)</i>	2023.09-2026.06
<i>MS. in Human Geography</i>	Nanjing, China
● Key courses: Spatial Data Analysis, The Earth's Surface Environment, Frontiers in Economic Geography	
University of Freiburg (Uni Freiburg)	2023.10-2024.03
<i>Exchange Program</i>	Freiburg, German
Peking University (PKU): <i>GPA (3.77/4.00)</i>	2021.09-2023.06
<i>Minor in Economics</i>	Beijing, China
● Key courses: Applied Micro-econometrics, Development Economics, Intermediate Micro/Macro Economics	
China Agriculture University (CAU): <i>GPA (3.87/4.00)</i>	2019.09-2023.06
<i>BA. in Rural Development Studies</i>	Beijing, China
● Key courses: Environment and Development, Participatory Rural Appraisal, Social Research Methods	

Research Interests

Rural development, food security, nutrition, climate change, spatial economics, Africa.

Skills and Awards

Language: Chinese (Native), English (Fluent, IELTS 7.5), German (A1.1)
Computer: Office, Python, Stata, ArcGIS
Awards: First-Class Scholarship (Top 10%), Outstanding Student Award, Anli Fang Scholarship (Top 10%)

Research Experience

Paving the Road to Food Access: Evidence from Oil Price Shocks in Sub-Saharan Africa	2024.06-2025.11
<i>Founded by International Growth Center (online)</i>	Nanjing, China
● Estimated the impacts of rising transportation costs on African local maize prices using dynamic DID and 2SLS/IV models in Stata. Additional analysis examines heterogeneity by land suitability and drought intensity.	
● Applied cost-allocation model in ArcGIS to map market catchments (land assigned to each market) from 5 raster datasets: roads, rivers/water bodies, land cover, borders, and elevation.	
● Constructed a network connecting mine sites and ports, and measured the shortest distance from markets to the network using ArcGIS and Python, which is employed as an instrument variable of transportation cost.	
The Sensitivity of Rain-fed Agricultural Crop Yields to CO₂ Fertilization in East Africa	2024.12-2025.03
<i>Founded by China National Natural Science Foundation</i>	Nanjing, China
● Applied the C-FIX model to stimulate CO ₂ fertilization effect using cell data at $0.01^{\circ} \times 0.01^{\circ}$ resolution.	
● Analyzed the relationship between CO ₂ fertilization and crop yields using Pearson correlation, and estimated the sensitivity of CO ₂ fertilization to crop yield via multivariate linear regression in Stata.	
● Employed the geographical detector model to identify drivers of CO ₂ fertilization, focusing on temperature, vapor-pressure deficit, soil moisture, and atmospheric CO ₂ .	
Social Interaction Effect of Small Farmers' Agricultural Production Technical Efficiency	2022.06-2023.08
<i>Founded by China National Natural Science Foundation</i>	Beijing, China
● Developed a theoretical framework for social interaction effects grounded in social network, embeddedness, and structural hole theories.	
● Constructed a network adjacency matrix from gift-exchange records for 203 rural households in a Gansu village.	
● Applied the Moran index to examine the spatial autocorrelation of agriculture technical efficiency, and employed spatial auto-correlation model to estimate the social interaction effects.	

Work Experience

UNICEF Zimbabwe Country Office

2025.04-2025.11

Intern in Nutrition and Early Childhood Development

Harare, Zimbabwe

- Supervised national household surveys in the Multiple Indicator Cluster Surveys (MICS) and Zimbabwe Livelihoods Assessment (ZimLAC) program cooperating with ministries of health and statistics, focusing on anthropometry of children under 5 years old.
- Conducted field visits and semi-structured interviews with key stakeholders at district clinics and schools in Goromonzi on child wasting and nutrition gardens.
- Designed and coordinated handout of “Positive Parenting” surveys to 112 employees at Prosperous Lithium Zimbabwe (a mining company) to assess childcare practices and training needs.
- Consolidated an interactive Positive Parenting toolkit covering nutrition, social protection, emotional support, and discipline, and coordinated the review process with relevant ministries.

Center of African Studies, Nanjing University (CASNJU)

2024.04-2024.07

Conference Assistant in “Agricultural and Rural Development in Zambia”

Nanjing, China

- Collected literature on agricultural and rural development in Zambia, including land policies, agriculture industries, food trade, food security and nutrition.
- Analyzed the product structure and spatiotemporal dynamics of Zambia’s food trade using UN Comtrade data (2000-2023), and visualize results with bar charts and Sankey diagrams.
- Translated the Vice President of Nanjing University’s speech during the conference with University of Zambia.

Publications and Working Papers

- **Publications** | Zhu, W., Zhang, Z., Zhang, E., & Xu, H. (2025). The sensitivity of rainfed agricultural crop yields to CO₂ fertilization and its driving mechanisms in East Africa. *Environmental Research*, 272, 121164. **(IF=7.7 Accepted)**
- **Publications** | Pang, H., Chen, Q., Zhang, E. (2024). Social interaction effect of small farmers’ agricultural production technical efficiency -- Based on an investigation of 203 farmers in Gansu province. *Chinese Journal of Agricultural Resources and Regional Planning*, 45(06), 180-189. **(IF=3.4 Accepted by a Chinese journal)**
- **Working Paper** | Zhang, E., Peng, C. (2025). Paving the Road to Food Access: Evidence from Oil Price Shocks in Sub-Saharan Africa. **(Planned to submit to the Households in Conflict Network (HiCN) and the Social Conflict and Political Economy (SCoPE) Workshop in 2026)**