

# Enqi Zhang

Kunshan Building, No. 163 Xianlin Avenue, Qixia District, Nanjing City (210023)  
Telephone Number: +86 13984880621 | Email: eqzhang@pku.org.cn

## Education

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

<b>Paving the Road to Food Access: Evidence from Oil Price Shocks in Sub-Saharan Africa</b>	2024.06-2025.11
<i>Founded by International Growth Center (online)</i>	<b>Nanjing, China</b>
● 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.	
<b>The Sensitivity of Rain-fed Agricultural Crop Yields to CO2 Fertilization in East Africa</b>	2024.12-2025.03
<i>Founded by China National Natural Science Foundation</i>	<b>Nanjing, China</b>
● Applied the C-FIX model to stimulate CO <sub>2</sub> fertilization effect using cell data at 0.01° × 0.01° resolution.	
● Analyzed the relationship between CO <sub>2</sub> fertilization and crop yields using Pearson correlation, and estimated the sensitivity of CO <sub>2</sub> fertilization to crop yield via multivariate linear regression in Stata.	
● Employed the geographical detector model to identify drivers of CO <sub>2</sub> fertilization, focusing on temperature, vapor-pressure deficit, soil moisture, and atmospheric CO <sub>2</sub> .	
<b>Social Interaction Effect of Small Farmers' Agricultural Production Technical Efficiency</b>	2022.06-2023.08
<i>Founded by China National Natural Science Foundation</i>	<b>Beijing, China</b>
● 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**

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<b>UNICEF Zimbabwe Country Office</b>	2025.04-2025.11
<i>Intern in Nutrition and Early Childhood Development</i>	<b>Harare, Zimbabwe</b>
<ul style="list-style-type: none"><li>● 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.</li><li>● Conducted field visits and semi-structured interviews with key stakeholders at district clinics and schools in Goromonzi on child wasting and nutrition gardens.</li><li>● 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.</li><li>● Consolidated an interactive Positive Parenting toolkit covering nutrition, social protection, emotional support, and discipline, and coordinated the review process with relevant ministries.</li></ul>	
<b>Center of African Studies, Nanjing University (CASNJU)</b>	2024.04-2024.07
<i>Conference Assistant in “Agricultural and Rural Development in Zambia”</i>	<b>Nanjing, China</b>
<ul style="list-style-type: none"><li>● Collected literature on agricultural and rural development in Zambia, including land policies, agriculture industries, food trade, food security and nutrition.</li><li>● 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.</li><li>● Translated the Vice President of Nanjing University’s speech during the conference with University of Zambia.</li></ul>	

## **Publications and Working Papers**

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- **Publications** | Zhu, W., Zhang, Z., Zhang, E., & Xu, H. (2025). The sensitivity of rainfed agricultural crop yields to CO<sub>2</sub> 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)**