

RUICHENG YANG

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Education

University of California, San Diego

Jul. 2025 – Jun. 2026 (Expected)

M.S. in Computational Social Science

CA, USA

- Relevant Coursework: Statistical Methods for Computational Social Science, Statistical Computing and Inference from Data, Machine Learning for Social Sciences, Large Language Models, Neural Networks/Deep Learning

Anhui University (AHU)

Sep. 2021 – Jun. 2025

Bachelor of Law in Sociology

Anhui, China

- GPA: 3.91/5.0 (WES GPA: 3.67/4.0)
- Relevant Coursework: Social Research Methods, Social Statistics, Social Governance, Theories of Foreign Sociology, The Study on Social Survey Methods, Quantitative Research Design, Statistics Software
- Award: 2022-2023 Arts and Sports Scholarship; 2023-2024 Academic Achievement Scholarship

Professional Experience

Institute of Geographic Sciences and Natural Resources Research, CAS

Aug. 2024 – Sep. 2024

Intern (Remote)

- Analyzed land use changes in 3 regions over 4 decades using ArcGIS software, revealing the factors underlying the shifts via situational analysis, which supported the urban spatial planning project toward sustainable development
- Accessed extensive English literature from Web of Science, ScienceDirect, Google Scholar, etc.; extracted relevant data with Excel, Endnote, and Zotero, prepared literature reviews to inform the group's interpretation of regional land management and policy development
- Analyzed the indicators related to urban ecological degradation (green space coverage, air quality index, etc.), identify the key factors affecting ecological quality
- Engaged in assessing the potential impacts of different urban ecosystem policies, with an aim to help urban planners develop more sustainable land-use strategies to mitigate ecological degradation

Jianghuai Tribune, AnHui Academy of Social Sciences

Jul. 2023 – Aug. 2023

Intern

Anhui, China

- Developed a rural revitalization investigation on a village: interviewed village cadres and villagers to assess the policy implementation challenges, infrastructure construction progress, and rural economy growth; drafted a research report to put forward policy improvement suggestions
- Edited and proofread 20+ academic journal articles, leading to the articles' accurate and smooth publication
- Attended manuscript revision seminars as a conference secretary, recorded review comments, and supervised the prompt completion of post-conference manuscript revision tasks

Research and Projects

Neural Data Decomposition for Hidden Population Discovery in Language and Social Perception

Sep. 2025 – Jun. 2026
(Expected)

- Core Member; Capstone Project — Director: Dr. Meenakshi Khosla

- Developing a Python-based computational pipeline to demix high-dimensional neural signals using methods such as matrix factorization
- Utilizing GPU clusters to perform dimensionality reduction and factor analysis of brain data for discovering hidden neural components
- Evaluating component stability through cross-validation and other methods, and interpreting their functional significance by integrating theoretical frameworks

Embracing Community: Urban Public Cultural Space Construction and Governance

Apr. 2024 – Present

- Core Member; National-level Project Approval — The Project for National College Students' Innovative Entrepreneurial Training Plan Program

- Explored the governance mechanism of urban public space with reference to theories related to urban gentrification, spatial politics, relative deprivation, and social support, offering theoretical support for the study
- Conducted field research in communities, and collected feedback from community residents and social workers on current public cultural space construction via questionnaires and interviews, obtaining a total of 200+ valid responses
- Analyzed the effectiveness of existing policies for the construction of public cultural spaces, identified challenges in policy implementation, and proposed recommendations for optimizing the governance of urban public spaces
- Developed an analytical framework for urban cultural space governance based on a literature review and case studies

Sociological Research and Quantitative Analysis Methods in a Global Context

Jan. 2024 – Apr. 2024

- *Online Course Experience* — Instructor: Prof. Parfait from Cornell University

- Traced the shifts in developmental theory from early optimism to recent pessimism, concluding it can be overcome
- Undertook quantitative and qualitative studies of global evolution, population growth, social equity, and international relations to predict social development trends from 3+ dimensions (economic, historical, cultural, etc.)
- Extracted data from CGSS2021 (2,735 samples) for quantitative and qualitative analyses; clarified the impact of individual education level on eco-friendly behavior and the mediating role of environmental concern
- Independently authored an article, *Education and Environment-Friendly Behavior: The Mediating Role of Environmental Concern*

Gender Preferences, Family Support and Fertility Intention Studies

Mar. 2023 – Jun. 2023

- *Course Project for Statistics Software* — Empirical Evidence from CFPS

- Filtered a sample size of 3,404 men and women aged 22-44, along with their parents, from CFPS2018 for the study
- Built OLS and Poisson regression models for data analysis, revealing a correlation between parental preference for male children and individual fertility intention via descriptive statistics and robustness test
- Contributed a paper exposing the impact of gender preferences and family support on fertility intentions, offering insights into optimizing fertility policies with an emphasis on the role of family support

Enhancement of Young Married Women's Fertility Intentions Based on Youth-Friendly Cities

Feb. 2023 – May 2024

- *Project Initiator; Provincial-level Project Approval (No.S202310357540)* — National College Students' Innovative Entrepreneurial Training Plan Program

- Reviewed 40+ literature to define the youth-friendly city construction framework and its research status
- Designed the fertility intention questionnaire and distributed it to 117 young married women aged 22-44, obtaining 87 valid responses; interviewed 5 women aged 30-40 to ascertain their satisfaction with support resources
- Used statistical charts and SPSS to analyze data, revealing low satisfaction with fertility support policies from 4 perspectives (government, community, workplace, and family); identified 4 influential factors on fertility intentions
- Proposed 9 policy optimization paths based on fertility policy studies and empirical analysis, with the project being affirmed by the Anhui Women's Federation

Rural Tourism Digital Transformation under the Integration of Culture and Tourism

Nov. 2022 – Dec. 2022

- *Group Leader* — The Project for 2022 Anhui Rural Revitalization Innovation and Entrepreneurship Competition

- Accessed policies on culture empowerment for rural revitalization, facilitating the policy implementation assessment from site preservation, local community, and cultural heritage perspectives
- Conducted social surveys and field visits, gaining insights into local attitudes toward cultural integration and the potential of cultural resources under the policy support
- Analyzed rural digital tourism feasibility, evaluating challenges, implementation advantages, and social impacts
- Designed a logo to enhance the site's recognition and convey cultural connotations, endorsed by the village council

Rural Social Policy and Economic Change

Jul. 2022 – Aug. 2022

- *Remote Research Project* — Instructor: Prof. Xu from Fudan University

- Applied the theoretical framework of rural sociology to evaluate the township division's economic behavior, investigate land finance and soaring house prices, and assess local government policy under rural land system reforms
- Carried out case studies grounded on 10+ literature reviews to expose bottlenecks in rural community development and work towards rural urbanization and sustainable development
- Obtained data from the survey and interviews to perform the case analysis of Company A's responses; evaluated the impacts of national ecological environment policy shifts on economic behavior and market entry
- Co-authored a paper, *The Influence of National Rural Construction Policies on the Development Path of Landscaping Companies*

Selected Publications

Education and Environment-Friendly Behavior: The Mediating Role of Environmental Concern

2024

- Ruicheng, Y. (2024). *Education and Environment-Friendly Behavior: The Mediating Role of Environmental Concern* (No. ETEMSS-6093); accepted by the 2024 3rd International Conference on Education Technology, Economic Management and Social Sciences (ETEMSS 2024), published in the conference proceedings of “Journal of Education, Humanities and Social Sciences” (ISSN: 2771-2907)

The Influence of National Rural Construction Policies on the Development Path of Landscaping Companies

2022

- Ruicheng, Y., Qianzhong, S., Jingyu, Z. (2022). *The Influence of National Rural Construction Policies on the Development Path of Landscaping Companies* (DOI: 10.54254/2753-7048/6/20220950); accepted by the International Conference on Interdisciplinary Humanities and Communication Studies (ICIHCS 2022)

Skills & Activities

Languages: Chinese (native), English (fluent)

Technical Skills: Python, SPSS, Stata, R, Microsoft Office Suite (Excel, PowerPoint, etc.)

Leadership: Vice President, Association for Social Work - Anhui University (Oct. 2021 – Oct. 2024)