SHUAI ZHOU

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EDUCATION

- 2023 Ph.D. Rural Sociology and Demography (dual title), The Pennsylvania State University Dissertation title: Environmental Migration in the United States: A Spatio-Temporal Perspective, 1970-2020
- 2019 M.S. Rural Sociology and Demography (dual title), The Pennsylvania State University Thesis title: Subsidized Relocation and the Willingness to Move: Evidence from the Targeted Poverty Alleviation Project in China

RESEARCH INTERESTS

Environmental Migration; Environmental Health; Spatial Demography; Circular Bionutrient Economy; Computational and Geospatial Analysis

ACADEMIC EXPERIENCE

2023-present	Postdoctoral associate, Department of Global Development, Cornell University
2017–2023	Research assistant, Department of AESE, Pennsylvania State University
2015	Part-time lecturer, Beijing City University

PUBLICATIONS

Book chapters

Zhou, Shuai and Guangqing Chi, 2023. "Old data, old problems, new data, new challenges." In: Research Handbook of Rural Sociology, edited by Ann Tickamyer and Carolyn Sachs. Cheltenham, United Kingdom: Edward Elgar Publishing. Forthcoming.

Peer-reviewed articles

- 2023 Anderson, Cory, Shuai Zhou, and Guangqing Chi. 2023. "Population-Wide Vaccination Hesitancy among the Amish: A County-Level Study of COVID-19 Vaccine Adoption and Implications for Public Health Policy and Practice." *Population Research and Policy Review*. 42: 70.
- Zhou, Shuai and Guangqing Chi. 2022. "Farmland Rental: The Impacts of Household Demographics and Livelihood Strategies in China." *Land*. 11(8): 1318.

- 2022 Li, Yanling, Zita Oravecz, Shuai Zhou, Yosef Bodovski, Ian J. Barnett, Naomi P. Friedman, Guangqing Chi, Scott I. Vrieze, and Sy-Miin Chow. 2022. "Bayesian Forecasting with a Regime-Switching Zero-Inflated Multilevel Poisson Regression Model: An Application to Adolescent Alcohol Use with Spatial Covariates." Psychometrika. 87(2): 376–402.
- Zhou, Shuai, Yanling Li, Guangqing Chi, Junjun Yin, Zita Oravecz, Yosef Bodovski, Naomi P. Friedman, Scott I. Vrieze, and Sy-Miin Chow. 2021. "GPS2space: An Open-source Python Library for Spatial Measure Extraction from GPS Data." *Journal of Behavioral Data Science*. 1(2): 127–155.
- 2021 Moss, Jennifer L., Siddhartha Roy, Karl T. Clebak, Julie Radico, Jarrett Sell, Christina Scartozzi, Shuai Zhou, Guangqing Chi, and Tamara Oser. 2021. "Area- and Individual-Level Correlates of Self-Rated Health: Implications for Geographic Health Disparities." *Journal of Primary Care and Community Health*. 12: 1–8.

Under review

- 2023 Zhou, Shuai and Guangqing Chi. "How Do Environmental Changes and Variations Influence Migration? A Meta-regression Analysis of the Environmental Migration Literature." *Demographic Research*.
- Zhou, Shuai, Guangqing Chi, Huanguang Qiu, Zhen Lei, Erica A.H. Smithwick, and Jiquan Chen. "Subsidized Relocation and the Willingness to Move: Evidence from the Targeted Poverty Alleviation Project in China." *PLOS One*.
- 2023 Chi, Guangqing, Megan Mucioki, Shuai Zhou, Jessica Miller, Ekrem Korkut, Lance Howe, Junjun Yin, Davin Holen, Heather Randell, Kathleen E. Halvorsen, Lara Fowler, James Ford, and Ann Tickamyer. "Climate Impacts on Migration in the Arctic North America: Existing Evidence and Research Agenda." *Climate Change*.

Manuscripts in development (including target journal)

- Zhou, Shuai, Guangqing Chi, and Brian C. Thiede. "Climate Variability and County-Level Migration in the United States, 1970 2010." *Demography*.
- Zhou, Shuai and Guangqing Chi. "Migratory Responses to Environmental Variability in the United States: A Multi-level Analysis of Microdata from the American Community Survey, 2010 2020." *Population and Environment*.

- 2023 Anderson, Cory, George M. Hayward, Shuai Zhou, Guangqing Chi, and Mary Shenk. "Persistently High Fertility in a Low Fertility Context: How Do America's Amish Heterogeneously Respond to Fertility-Reducing Structural Incentives?" *Demography*.
- 2023 Hou, Qing, Shuai Zhou, and Guangqing Chi. "The Factors Affecting Electric Vehicle Adoption in the United States, 2016 2021." *Energy Policy*.

Book reviews

Zhou, Shuai. "International Migration of China: Status, Policy and Social Responses to the Globalization of Migration" by Lu Miao and Huiyao Wang (Singapore: Springer, 2017. 135 pp. ISBN: 978-981-10-6073-1). *Rural Sociology*, 83(3): 700–702.

Other publications

Zhou, Shuai and Matthew M. Brooks. 2020. "Pennsylvania Pomp and Circumstance: Trends in High School Drop Outs." *Pennsylvania Population Network Briefs* 3: 1–4.

RESEARCH GRANTS

Unsuccessful grants

2022 **PI.** "Environmental Migration in the United States: A Spatio-temporal Perspective, 1970 – 2020." Russell Sage Foundation. (**Co-PI** with Guangqing Chi). 2022 –2023. \$10,000.

CONFERENCE PARTICIPATION (* indicates presenter)

Conference presentations (including forthcoming presentation)

- Zhou, Shuai* and Guangqing Chi. 2023. "Migratory Responses to Environmental Variability in the United States: A Multi-level Analysis of Microdata from the American Community Survey, 2010 2020" 2023 Annual Meeting of the Population Association of America, April 12 15, 2023, New Orleans, LA.
- Zhou, Shuai* and Guangqing Chi. 2022. "Migratory Responses to Environmental and Sociodemographic Factors in the United States: A Multi-level Approach." 2022 Annual Meeting of the Rural Sociological Society, August 04 07, 2022, Westminster, CO.
- 2022 Anderson, Cory, George M. Hayward, Shuai Zhou, Guangqing Chi, and Mary K. Shenk. 2022. "Persistently High Fertility in a Low Fertility Context: How Do America's Amish Heterogeneously Respond to Fertility-Reducing Structural Incentives?" 2022 Annual Meeting of the Population Association of America, April 6 9, 2022, Atlanta, GA.

- Zhou, Shuai* and Guangqing Chi. 2021. "How Do Environmental Changes and Variations Influence Migration? A Meta-regression Analysis of the Environmental Migration Literature." 2021 Annual Meeting of the Rural Sociological Society, July 29 August 01, 2021. (Held online due to COVID-19)
- Zhou, Shuai* and Matthew M. Brooks. 2020. "Disparities in Transition to High School: An Evaluation of Rurality, Race and Ethnicity Composition, and Mobility at the Unified School District Level in the US." 2020 Annual Meeting of the Rural Sociological Society. (Canceled due to COVID-19)
- Zhou, Shuai* and Guangqing Chi. 2019. "Land Rental in Rural China: The Impacts of Demographics, Household Economy, Land Endowment, and Social Welfare, 2012 2016." 2019 Annual Meeting of the Rural Sociological Society, August 07 10, 2019, Richmond, VA.
- Zhou, Shuai*, Guangqing Chi, Brian C. Thiede, Zhen Lei, and Huanguang Qiu. 2019. "Subsidized Relocation and the Willingness to Move: Evidence from the Targeted Poverty Alleviation Project in China." 2019 Annual Meeting of the Population Association of America, April 10 – 13, 2019, Austin, TX.
- Zhou, Shuai*, Guangqing Chi, Brian C. Thiede, Zhen Lei, and Huanguang Qiu. 2018. "Subsidized Relocation and the Willingness to Move: The First Look at the Targeted Poverty Alleviation Project in China." 2018 Annual Meeting of the Rural Sociological Society, July 26 – 29, 2018, Portland, OR.
- Zhou, Shuai*. 2017. "Family Economy, Land Endowment, Social Security and Land Rent Behavior of Village Farmers: An Empirical Research Based on Logistic Model." 2017 Annual Rural Studies Conference, October 27 28, 2017, University Park, PA.

Invited talks

- 2022 Zhou, Shuai. 2022. "Migration due to Climate Change." Geo-Resolution 2022—Geospatial Perspectives on Climate Change: Predicting and Mitigating Effects at Saint Louis University, September 28, 2022, St. Louis, MO.
- Zhou, Shuai and Yanling Li. 2021. "GPS2space: An Open-source Python Library for Spatial Measure Extraction from GPS Data." QuantDev Brownbag at Social Science Research Institute at Pennsylvania State University, February 10, 2021, University Park, PA.

- 2020 Zhou, Shuai. 2020. "Introduction to GPS2space." Intensive Longitudinal Health Behaviors Network Meeting (GPS Subgroup Meeting), October 21, 2020, University Park, PA.
- Zhou, Shuai. 2020. "Alaska Demographics and Data Sources." Pursuing Opportunities for Long-term Arctic Resilience for Infrastructure and Society (POLARIS) project, October 5, 2020, University Park, PA.

Conference posters

- Zhou, Shuai and Guangqing Chi. 2022. "Migratory Responses to Environmental and Sociodemographic Factors in the United States: A Multi-level Analysis, 2010 2020." Population and Climate Change: The Defining Relationship of the 21st Century, November 30 December 2, 2022, Vienna, Austria.
- Zhou, Shuai, Guangqing Chi, and Brian C. Thiede. 2022. "Migration and Climate Change and Variability in the Contiguous United States at the County Level, 1970 2010." 2022 Annual Meeting of the Population Association of America, April 6 9, 2022, Atlanta, GA.
- Zhou, Shuai and Guangqing Chi. 2020. "Land Rental in Rural China: The Impacts of Demographics, Household Economy, Land Endowment, and Social Welfare, 2012 2016." 2020 Annual Meeting of the Population Association of America, April 22 25, 2020, Washington, DC. (Canceled due to COVID-19)

Panel moderation

- 2022 Health Access and Outcomes, 2022 Annual Rural Studies Conference, October 13 14, 2022, University Park, PA
- 2021 Agent-Based Modeling, 2021 Annual Population Research Institute Graduate Student Methodology Workshop, May 11, 2021, University Park, PA
- 2019 Alternative Food Systems and Sustainable Agriculture, 2019 Annual Rural Studies Conference, November 7 8, 2019, University Park, PA

AWARDS

2022 Francena L. Miller and Michael F. Nolan Graduate Scholarship in Agricultural Economics and Rural Sociology, The Pennsylvania State University

- 2022 The College of Agricultural Sciences (CAS) Graduate Student Travel Awards, The Pennsylvania State University
- 2022 Rural Sociological Society (RSS) Graduate Student Travel Award, The Rural Sociological Society

TEACHING EXPERIENCE

Penn State University

- 2023 Guest lecture, Environmental Migration in the United States: A Spatio-temporal Perspective, April 20, 2023
- 2021 Guest lecture, Using Social Explorer for Spatial Analyses, February 15, 2021
- 2020 Guest lecture, Introductory Rural Sociology, January 28, 2020
- 2020 Guest lecture, Introductory to Stata, September 28, 2020

Beijing City University

2015 Part-time lecturer, Social Survey Methods, March 2015 – July 2015

PROFESSIONAL TRAINING

- Data and Modeling Approaches to Assessing Climate-Conflict Impact on Population Dynamics, April 12, 2023, New Orleans, LA. (Forthcoming)
- 2023 Leveraging Linked Census Data: Resources and Opportunities from Full Count IPUMS Data, April 12, 2023, New Orleans, LA. (Forthcoming)
- 2022 Summer Institute in Migration Research Methods, July 25 August 2, 2022, University of California, Berkeley, Berkeley, CA.
- 2019 Data Reproducibility Boot Camp, June 3 7, 2019, The Pennsylvania State University, University Park, PA.

PROFESSIONAL MEMBERSHIP

- 2020 present International Union for the Scientific Study of Population
- 2019 present Population Association of America
- 2018 present Rural Sociological Society
- 2017 present Rural Sociology Graduate Association

OPEN-SOURCE PACKAGE

2021 GPS2pace A Python library for constructing buffer- and convex hull-based activity

space and shared space from raw GPS data, and performing the nearest

distance query to user-specified landmarks. https://pypi.org/project/gps2space/ (On PyPI)

https://github.com/shuai-zhou/gps2space (On GitHub)

https://gps2space.readthedocs.io/en/latest/index.html (Documentation)

STATISTICAL/PROGRAMMING LANGUAGE

Python Advanced level
Stata Advanced level
R Preliminary level

REFERENCES

Available upon request.