

## SHUAI ZHOU

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### EDUCATION

2022 (EST.)     Ph.D.     Rural Sociology and Demography, The Pennsylvania State University  
2019             M.S.     Rural Sociology and Demography, The Pennsylvania State University

### RESEARCH INTERESTS

Planned Relocation; Environmental Migration; Spatial Demography; Computational and Spatial Social Science

### ACADEMIC EXPERIENCE

2017 – present   Research assistant, Department of AESE, Pennsylvania State University  
2015             Part-time lecture, Beijing City University

### PUBLICATIONS (\* Indicates first author)

#### PEER REVIEWED ARTICLES

- 2022     Li, Yanling, Zita Oravecz, Shuai Zhou\*, Yosef Bodovski, Ian J. Barnett, Naomi P. Friedman, Guangqing Chi, Scott I. Vrieze, and Sy-Miin Chow. (accepted). “Bayesian Forecasting with a Regime-Switching Zero-Inflated Multilevel Poisson Regression Model: An Application to Adolescent Alcohol Use with Spatial Covariates.” *Psychometrika*.
- 2021     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

- 2022     Zhou, Shuai\* and Guangqing Chi. “How Do Environmental Changes and Variations Influence Migration? A Meta-regression Analysis of the Environmental Migration Literature.”

- 2022 Zhou, Shuai\* and Guangqing Chi. “Farmland Renting in Rural China: The Impacts of Household Demographics and Livelihood Strategies, 2012 – 2016.”
- 2022 Zhou, Shuai\*, Guangqing Chi, Huangang 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.”
- 2022 Anderson, Cory, Shuai Zhou, and Guangqing Chi. “Population-Wide Vaccination Hesitancy among the Amish: A County-Level Study of COVID-19 Vaccine Adoption”

### **MANUSCRIPTS IN PREPARATION**

- 2022 Zhou, Shuai\*, Guangqing Chi, and Brian C. Thiede. “Climate Variability and County-Level Migration in the United States, 1970 – 2010”
- 2022 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.”
- 2022 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?”

### **BOOK REVIEWS**

- 2018 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**

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

### **CONFERENCE (\* Indicates presenter)**

#### **PRESENTATIONS**

- 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.

- 2021 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.
- 2019 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.
- 2019 Zhou, Shuai\*, Guangqing Chi, Brian C. Thiede, Zhen Lei, and Huangang 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.
- 2018 Zhou, Shuai\*, Guangqing Chi, Brian C. Thiede, Zhen Lei, and Huangang Qiu. 2018. “Subsidized Relocation and the Willingness to Move: The First Look at the Targeted Poverty Alleviation Project in China.” 81st Annual Meeting of the Rural Sociological Society, July 26 – 29, 2018, Portland, OR.
- 2017 Zhou, Shuai\*. 2017. “Family Economy, Land Endowment, Social Security and Land Rent Behavior of Village Farmers: An Empirical Research Based on Logistic Model.” 5th Annual Rural Studies Graduate Student Conference, October 27 – 28, 2017, University Park, PA.

## **POSTERS**

- 2022 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.
- 2020 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.

## **INVITED PRESENTATIONS**

- 2021 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.

2020 Zhou, Shuai. 2020. “Alaska Demographics and Data Sources.” Alaska Demographic Data Meeting for Pursuing Opportunities for Long-term Arctic Resilience for Infrastructure and Society (POLARIS) project, October 5, 2020, University Park, PA.

## **PANEL MODERATORS**

2019 Alternative Food Systems and Sustainable Agriculture, 7th Annual Rural Studies Student Conference, November 7 – 8, 2019, University Park, PA

## **TEACHING EXPERIENCE**

### **PENN STATE UNIVERSITY**

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

## **PROFESSIONAL TRAINING**

2019 Data Reproducibility Boot Camp, June 3 – 7, 2019, 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

## **STATISTICAL/PROGRAMMING LANGUAGE**

Python Advanced level

Stata Advanced level

## **OPEN-SOURCE PACKAGE**

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)

## **REFERENCES**

Available upon request.