

Guangqing Chi

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EDUCATION

Ph.D., Environmental Demography, University of Wisconsin-Madison, 2006
M.S., Environmental Policy, Michigan Technological University, 2002
B.S., Environmental Science, East China Normal University, 1999

POSITIONS AND AFFILIATIONS

Indiana University (2025–present)

Provost Professor of Geography, College of Arts and Sciences
Affiliate Professor of Environmental and Occupational Health, School of Public Health
Faculty Affiliate, O'Neill School of Public and Environmental Affairs, Department of Sociology, Luddy
Artificial Intelligence Center, and Native American and Indigenous Studies Program
Faculty Fellow, Hutton Honors College

Professional Appointments

Editorial Board Member, *Social Forces* (2023–present)
Advisory Board Member, *Population and Environment* (2019–present)
Editorial Board Member, *Spatial Demography* (2012–present)
Deputy Editor, *Demography* (2016–2019)
Author, *Sixth National Climate Assessment* (NCA6), Health chapter (2024–2027) [Terminated 4/28/2025]
Pan-HDR Ice-Melt Community Council, iHARP, UMBC (2024–present)
Rural Sociology Society, Publication Committee Chair (2023–2024) & Council Member (2022–2024)
NAS Board on Environmental Change and Society's Integrating Human Sciences Planning (2023)
NAS Advisory Panel for TRB/AAMVA, Project 19-01 (2019–2020)

Previous Employment

Pennsylvania State University (2015–2025)
Professor (2020–2025) and Associate Professor (2015–2020) of Rural Sociology, Demography, and
Public Health Sciences, Department of Agricultural Economics, Sociology, and Education
Director (2015–2024), Computational and Spatial Analysis Core, Social Science Research Institute
and Population Research Institute
Faculty Affiliate: Sociology, Population Research Institute, Institute for Computational and Data
Sciences, Engineering Systems and Policy program, T32 Social Environments and Population
Health Training Program, and Graduate programs of Demography, Social Data Analytics,
International Agriculture and Development, and Applied Demography
South Dakota State University (2014–2015)
State Demographer of South Dakota
Associate Professor, Department of Sociology and Rural Studies
Director, Rural Life and South Dakota Census Data Center
Mississippi State University (2006–2014)
Associate Professor (2013–2014) and Assistant Professor (2008–2013), Department of Sociology
Research Scientist (2008–2014) and Postdoc Fellow (2006–2008), Social Science Research Center

RESEARCH GRANTS

PI = Principal Investigator; Co-PI = Co-Principal Investigator; Co-I = Co-Investigator; SP = Senior Personnel.
NSF = National Science Foundation; NIH = National Institutes of Health; NASA = National Aeronautics and Space Administration;
NOAA = National Oceanic and Atmospheric Administration; DOD = Department of Defense; USDA NIFA = U.S. Department of
Agriculture's National Institute of Food and Agriculture; USDOT = U.S. Department of Transportation; NHTSA = National Highway
Traffic Safety Administration; HHS CMS = U.S. Department of Health and Human Services, Centers for Medicare & Medicaid
Services.

External Grants Awarded

1. **European Research Council HORIZON.** "Indigenous Peoples Food Systems' Statistics: Nurturing Epistemic Diversity in the Configuration of Quantitative Data for the Right to Foods." 5/1/2026–4/30/2031. **SP** with Pamela Katic (PI), U Greenwich, UK. Euro €1,999,081.
2. **NSF Research, Innovation, Synergies, and Education.** "Belmont Forum Collaborative Research: RETRACE-ResilienceS to Climate Risks: Lessons from Arctic and Pacific Communities" (Award # RISE-2420587 and #2554238). 7/15/2024–6/30/2027. **Partner PI.** \$369,376 (Consortium PI: Charlotte Heinzlef, UVSQ, France. Total award: Euro €993,000).
3. **NordForsk.** "Addressing Unavoidable Non-Economic Losses to Climate-Induced Events for Communities in the Arctic" (Award # 213038). 6/1/2025–5/31/2028. **Partner** with Rico Kongsager (PI), University College Copenhagen. NOK 31,590,800.
4. **NSF Navigating the New Arctic Program.** "Collaborative Research: NNA Research: Arctic, Climate, and Earthquakes (ACE): Seismic Resilience and Adaptation of Arctic Infrastructure and Social Systems amid Changing Climate" (Award # NNA-2220221 and # 2552520). 1/1/2023–12/31/2027. **PI.** \$559,000. (Lead PI: Majid Ghayoomi, U New Hampshire. Total award: \$3,009,000.)
5. **NSF Environmental Sustainability Program.** "CAS-Climate: An Integrated Framework to Investigate Thermal Resilience of Sustainable Buildings and Living Environments for Greater Preparedness to Extreme Temperature Events" (Award # CBET-2215421). 9/1/2022–2/28/2027. **Co-PI** with Julian Wang (PI). \$615,774.
6. **NSF Navigating the New Arctic Program.** "NNA Track 1: Pursuing Opportunities for Long-term Arctic Resilience for Infrastructure and Society (POLARIS)" (Award # NNA-1927827). 1/1/2020–8/31/2025. **PI.** \$3,018,000.
7. **Pittsburgh Supercomputer Center.** "Investigating environmental migration and community resilience using machine learning and high-resolution data integration" (Award # SOC240020). 7/2/2024–7/31/2026. **PI.** 750,000 ACCESS Credits.
8. **NIH/NIDDK.** "The Impact of Structural Racism on Racial/Ethnic Disparities in End-Stage Kidney Disease from Healthy Population to Mortality" (Award # 1R01DK132953-01). 8/1/2022–5/31/2026. **Co-I** with Jonathan Daw (PI). \$2,646,872. [Terminated 4/29/2025]
9. **NSF Office of International Science & Engineering.** "Collaborative Research: NSF-NFRF: The Indigenous Peoples Observatory Network (IPON): The Climate-Food-Health Nexus" (Award # OISE-2429010). 6/1/2024–5/31/2027. **PI.** \$225,625 (Consortium PI: Tristan Pearce, University of Northern British Columbia. Total award: \$3,519,247). [Terminated on 4/25/2025]
10. **Belmont Forum** (NSF, UKRI, Inter-American Institute, and Future Earth). "The Indigenous Peoples Observatory Network (IPON): Understanding and responding to complex climate-health emergencies". 7/1/2024–6/30/2027. **Collaborator.** Euro €1,527,000 (Consortium Lead: Carol Zavaleta-Cortijo, Universidad Peruana Cayetano Heredia).
11. **USDA NIFA.** "Climate Migration in the Arctic" (Project # PEN04965, Accession # 7006628). 1/12/2024–12/31/2028. **PI.** \$86,040. [Closed on 7/31/2025]
12. **NSF.** "Planning: Collaborative: Food Security and Traditional Foods in Urban Spaces" (Award # OPP-2306041). **Co-PI** with Megan Mucioki (PI). 5/1/2023–4/30/2025. \$200,000.

13. **NSF** Office of Polar Program. "RAPID: Using Mobile Phone Data to Understand the Impacts of the COVID-19 Pandemic on Food Assistance Use in Alaska" (Award # OPP-2207436). 2/1/2022–1/31/2025. **PI**. \$200,000.
14. **NIH/NICHD**. "Population Research Institute" (Award # 2P2C HD041025). 6/1/2021–5/31/2026. **SP (PI** of the Computational and Spatial Analysis Core) with Jennifer Glick (PI). \$3,530,135.
15. **NSF** Strengthening American Infrastructure Program. "EAGER: SAI: Collaborative Research: Community-Driven Innovation for Resilient Bridges in Remote Communities" (Award # BCS-2121909). 10/1/2021–9/30/2024. **PI**. \$259,112.
16. **NSF** Office of Polar Program. "Planning: Building Community Resilience in the Food-Energy-Water and Society Nexus" (Award # OPP-2225982). 10/1/2022–9/30/2024. **Co-PI** with Somayeh Asadi (PI). \$200,000.
17. **Pittsburgh Supercomputer Center**. "The Generalizability and Replicability of Twitter Data for Population Research" (Award # SES180006). 4/15/2018–4/16/2024. **PI**. Memory: 50,000 SUs; Storage: 30,000 GB; 100,000 ACCESS Credits.
18. **National Park Service Research Center**. "Bicycle Patterns in Grand Teton National Park's Multi-Use Pathway: Integrating Behavior, Recreation Specialization, and Big Data." **Co-I** with Bing Pan (PI). 4/1/2023–3/31/2024. \$5,000.
19. **NSF** Office of Polar Program. "Convergence NNA: Coordinate a Transdisciplinary Research Network to Identify Challenges and Solutions of Permafrost Coastal Erosion and Its Socioecological Impact in the Arctic" (Award # OPP-1745369). 1/1/2018–12/31/2023. **Co-PI** with Ming Xiao (PI). \$500,000.
20. **DOD**. "Permanent Change of Station and Variation in Cancer Prevention and Care in the Military Health System" (Award # HQ0034-20-1-0002). 9/29/2019–12/31/2023. **Co-I** with Joel Segel (PI). \$717,562.
21. **NSF** Sociology Program. "RR: The Generalizability and Replicability of Twitter Data for Population Research" (Award # SES-1823633). 7/15/2018–6/30/2023. **PI**. \$500,000.
22. **NIH/NIAAA**. "The Center for Innovation in Intensive Longitudinal Studies (CIILS)" (Award # U24 AA027684). 9/20/2018–8/31/2023. **Co-I** with Sy-Miin Chow (PI). \$1,835,411.
23. **NSF** Office of Polar Program. "RAPID: Collaborative Research: COVID-19 Preparedness in Remote Fishing Communities in Rural Alaska" (Award # OPP-2032790). 6/15/2020–5/31/2022. **PI**. \$119,868.
24. **NIH/NICHD**. "Play & Learning Across a Year (PLAY)." (Award # R01HD094830-01). 4/1/2018–3/31/2023. **Co-I** with Karen E. Adolph, Catherine Tamis-Lemonda, and Rick Gilmore (PIs). \$8.5 million.
25. **The Food and Agriculture Organization of the United Nations**. "Drivers of Deforestation Analysis and Synthesis Research Project." 1/1/2022–6/30/2022. **SP** with Katie Bernhard and Edwin Sabuhoro (co-PIs). \$40,000.
26. **Social Science Research Council**. "Are We More Willing to Speak Up When We Share Without Clicking? A Study of Political Content Sharing on Facebook" (Award # 228621). 7/1/2020–6/30/2022. **Co-PI** with Shyam Sundar (PI). \$49,017.
27. **NIH**. "Population Research Institute" (Award # P2C HD041025). 9/4/2016–5/31/2021. **Co-I (PI** of the Scientific and Technical Core) with Jennifer Van Hook (PI). \$13,179,754.
28. **FWD.us**. "Twitter Data for Environmental Migration from Central America." 8/23/2021–10/15/2021. **PI**. \$7,798. [contract]
29. **NSF** Innovations in Graduate Education Program. "IGE: Individualized Pathways and Resources to Adaptive Control Theory-Inspired Scientific Education (iPRACTISE)" (Award # DGE-1806874). 7/1/2018–6/30/2021. **SP** with Sy-Miin Chow (PI). \$490,804.

30. **HHS CMS.** "Pennsylvania Rural Health Model" (Award # 4400015622). 11/7/2019–10/20/2020. **Co-I** with Lisa Davis and Chris Hollenbeak (co-PIs). \$4,957,486.
31. **NASA** Land Use and Land Cover Change Program. "How Environmental Change in Central Asian Highlands Impacts High Elevation Communities" (Award # NNX15AP81G). 7/1/2015–6/30/2020. **Co-I** with Geoffrey Henebry (PI). \$969,551.
32. **HHS CMS.** "Pennsylvania Rural Health Model" (Award # 4400015622). 4/17/2019–10/20/2019. **Co-I** with Lisa Davis and Dennis Scanlon (co-PIs). \$4,426,440.
33. **NSF** Critical Resilient Interdependent Infrastructure Systems and Processes Program. "CRISP Type 1/Collaborative Research: Population-Infrastructure Nexus: A Heterogeneous Flow-based Approach for Responding to Disruptions in Interdependent Infrastructure Systems" (Award # CMMI-1541136). 1/1/2016–12/31/2018. **PI.** \$150,000.
34. **Microsoft Azure for Research Program.** "Data Science: Mining Twitter User Demographics as a First-Step in Big Data for Population Research with Microsoft Azure." 3/14/2018–12/31/2018. **PI.** \$10,000.
35. **PA Tobacco Settlement Fund.** "Neighborhood Effects on Health in Pennsylvania." 6/1/2016–12/31/2017. **Co-I** with Cynthia Chuang (PI). \$107,494.
36. **USDOT** National Center for Intermodal Transportation for Economic Competitiveness. "The Economic Demography of Passenger Intermodal Transportation: Opportunities and Challenges" (Award # DTRT12GUTC14-201307). 07/1/2013–12/31/2015. **PI.** \$199,858.
37. **USDOT** National Center for Intermodal Transportation for Economic Competitiveness. "Economic and Demographic Impacts of Passenger Rail Systems: A Scenario Analysis of Restoring the Passenger Rail Corridor between New Orleans and Orlando" (Award # DTRT12GUTC14-201308). 05/15/2013–12/31/2015. **PI.** \$201,226.
38. **South Dakota Rapid City School District.** "School Enrollment Projections." 11/1/2014–2/28/2015. **PI.** \$11,500. [Contract]
39. **NHTSA,** Mississippi Highway Patrol, and Mississippi Department of Public Safety. "Mississippi Highway Patrol Data and Analysis Program: Year Six" (Award # 14-MC-401-1). 10/01/2013–09/30/2014. **Co-PI** with Tonya Thornton-Neaves (PI). \$238,811.
40. **USDOT** National Center for Intermodal Transportation for Economic Competitiveness. "Passenger Usages of the Intermodal Transportation System: An Analysis of the 2009 National Household Travel Survey Data" (Award # DTRT12GUTC14-12050543). 07/01/2012–08/15/2013. **PI.** \$65,459.
41. **USDOT** University Transportation Center Program. "National Center for Intermodal Transportation and Economic Competitiveness." 2012–2014. Faculty Affiliate with Burak Eksioglu (PI). \$3,500,000.
42. **NHTSA,** Mississippi Highway Patrol, and Mississippi Department of Public Safety. "Mississippi Highway Patrol Data and Analysis Program: Year Five" (Award # 13-K9-401-1). 10/01/2012–09/30/2013. **Co-PI** with Tonya Thornton-Neaves (PI). \$194,557.
43. **NHTSA,** Mississippi Highway Patrol, and Mississippi Department of Public Safety. "Mississippi Highway Patrol Data and Analysis Program: Year Four" (Award # 12-K9-401-1). 10/01/2011–09/30/2012. Research Scientist with Arthur G. Cosby (PI). \$270,466.
44. **NHTSA,** Mississippi Highway Patrol, and Mississippi Department of Public Safety. "Mississippi Highway Patrol Data and Analysis Program: Year Three" (Award # 11-K9-401-1). 10/01/2010–09/30/2011. Research Scientist with Arthur G. Cosby (PI). \$277,225.
45. **USDOT** National Center for Intermodal Transportation. "Assessing Economic and Demographic Impacts of Intermodal Transportation Systems" (Award # 363010100-07070609). 08/16/2009–08/15/2010. **PI.** \$44,112.

46. **NHTSA**, Mississippi Highway Patrol, and Mississippi Department of Public Safety. "Mississippi Highway Patrol Data and Analysis Program: Year Two" (Award # 10-K9-401-1). 10/01/2009–09/30/2010. Research Scientist with Arthur G. Cosby (PI). \$392,160.
47. **USDOT** National Center for Intermodal Transportation. "Modeling Economic Benefits of Resilience Enhancement Strategies for Intermodal Transportation Systems." (Award # 363010100-009067-018). 07/01/2009–06/30/2010. **Co-PI** with Li Zhang (PI). \$57,519.
48. **NHTSA**, Mississippi Highway Patrol, and Mississippi Department of Public Safety. "Mississippi Highway Patrol Data and Analysis Program: Year One" (Award # 09-K9-401-1). 10/01/2008–09/30/2009. Research Scientist with Arthur G. Cosby (PI). \$516,632.

Internal Grants Awarded

49. PSU Institutes of Energy and the Environment. "Spatiotemporal Analysis of Community Power Outage Impact Under Extreme Weather." 7/1/2024–6/30/2025. **Co-PI** with Yuqing Hu (PI). \$40,000.
50. PSU C-SoDA Accelerator. "Post-Hurricane Katrina Return Migration Decision-Making: A Big-Data Analytical Approach with Infutor Data." 1/1/2024–12/31/2024. **Co-PI** with Yining Feng (PI). \$4,000.
51. PSU Social Science Research Institute. "New Tools for Visualization Research to Improve Hazard and Risk Communication." 7/1/2023–6/30/2024. **Co-PI** with Peter Stempel (PI). \$20,000.
52. PSU Center for Socially Responsible Artificial Intelligence and College of Information Science and Technology. "Predicting Number of Tenants At-Risk of Eviction in High Resolution using Social Media, E-Commerce Data, Sociological Insights, and Low-Resolution Eviction Data." 5/1/2023–10/30/2024. **Co-PI** with Dongwon Lee (PI). \$40,000.
53. PSU C-SoDA Accelerator. "Expanding Methods and Understanding of Trail Use and Users at Grand Canyon National Park with Spatial Applications of Big Data." 1/1/2023–10/31/2023. **Co-PI** with Colby Parkinson (PI). \$5,000.
54. PSU C-SoDA Accelerator. "# BlackHiker: A Black Perspective on Outdoor Recreation by Tweets." 1/1/2023–7/31/2023. **Co-PI** with Yun Liang (PI). \$5,000.
55. NIH Interdisciplinary Network on Rural Population Health and Aging (INRPHA). "Aging Amish: Toward Usable Population Microdata and an Investigation of Residence Proximity, Occupational Change, and Informal Care Practices for the Elderly." 4/15/2021–6/30/2022. **Co-I** with Cory Anderson (PI). \$15,000.
56. PSU Social Science Research Institute. "Mobility Patterns and Their Influence on Food Security in Alaskan Communities: Using Digital Trace Data for Social and Behavioral Research during the COVID-19 Pandemic." 4/1/2021–3/31/2023. **Co-PI** with Junjun Yin (PI). \$30,000.
57. PSU Institution for Computational and Data Sciences. "A Deep Learning-enabled Dasymmetric Mapping Approach for Fine-Scale Population Estimation in Alaska." 5/1/2021–4/30/2023. **Co-PI** with Junjun Yin (PI). \$35,000.
58. PSU C-SoDA Accelerator. "Who Visits Yellowstone National Park during the COVID-19 Pandemic? A Gravity Model Analysis by Mobile Device Data." 2/1/2022–10/31/2022. **Co-PI** with Yun Liang (PI). \$6,500.
59. PSU Institutes of Energy and the Environment. "Urban Microclimate, Outdoor Thermal Comfort, and Socio-Economic Mapping: A Case Study of Two High-Density Cities." 4/16/2021–6/30/2022. **Co-PI** with Ute Poerschke (PI). \$26,420.
60. PSU Social Science Research Institute. "Revisiting Secular Trends on Migration." 7/1/2019–6/30/2020. **Co-PI** with Elisa Giannone (PI). \$5,000.

61. PSU Social Science Research Institute, Institute for CyberScience, and College of Information Science and Technology. "Regional Differences in Opinions Toward Climate Change Among Twitter Users." 3/1/2019–12/31/2020. **Co-PI** with Ting-Hao Huang (PI). \$30,000.
62. PSU Social Science Research Institute and Institute for CyberScience. "Food-Water-Energy Choices in Alaska: Mining People's Perception and Attitudes from Geotagged Tweets." 3/1/2019–3/1/2020. **Co-PI** with Somayeh Asadi (PI). \$5,000.
63. PSU Social Science Research Institute and Institute for CyberScience. "What Can Social Media Sentiment Analysis of Flu Risk and Vaccine Efficacy Tell Us About Regional and Demographic Variations in Flu Vaccination Rates?" 3/1/2019–2/28/2021. **Co-PI** with Suresh Kuchipudi (PI). \$20,000.
64. Penn State's 2016-2020 Strategic Plan. "Pennsylvania Population Network." 7/1/2018–6/30/2021. **Collaborator** with Jennifer Glick (PI). \$243,423.
65. PSU Social Science Research Institute. "Spatial Economic Patterns in Refugee Integration: An Analysis of TurkTelecom Call Data Records and Geographic Information Systems." 8/1/2018–7/31/2019. **Co-PI** with Clio Andris (PI). \$20,000.
66. PSU Social Science Research Institute. "An Innovative Approach to Tackle the Opioid Epidemic: Utilizing Twitter Data and Integrating Big Data Analytics and Spatial and Social Network Analyses." 5/1/2018–6/30/2019. **Co-PI** with Zhen Lei (PI). \$20,000.
67. Penn State's 2016-2020 Strategic Plan. "Individualized Pathways and Resources to Adaptive Control Theory-Inspired Scientific Education (iPRACTISE)." 7/1/2018–6/30/2020. **Co-I** with Sy-Miin Chow (PI). \$250,000.
68. PSU Human Health and Environment. "Heavy Metal Exposures and Aggressive Prostate Cancer." 7/1/2018–6/30/2020. **Co-I** with Alicia C. McDonald and Ming Wang (PIs). \$50,000.
69. PSU Institute for CyberScience. "The Generalizability and Replicability of Twitter Data for Population Research." 5/1/2018–6/30/2019. **PI**. \$35,000.
70. PSU Social Science Research Institute and Institutes of Energy and the Environment. "From Environmental Change to Left-behind Children's Well-being in Rural Highlands: The Nexus of Pasture Productivity, Family Processes, Labor Migrants, and Child Development." 7/1/2017–6/30/2019. **PI**. \$50,000.
71. Penn State's 2016-2020 Strategic Plan. "Integrated Data Systems Solutions for Health Equity." 7/1/2017–6/30/2019. **Co-I** with Susan McHale (PI). \$180,000.
72. Penn State's 2016-2020 Strategic Plan. "Digital Collaboratory for Precision Health Research." 7/1/2017–6/30/2019. **Co-I** with Vasant Honavar (PI). \$250,000.
73. PSU Human Health and Environment. "Predictive Modeling of Health Risks and Outcomes from Clinical, Environmental, Contextual, Behavioral Data: A Proof-of-Concept Study Focused on Breast Cancer in Central Pennsylvania." 6/1/2017–5/31/2018. **Co-PI** with Vasant Honavar and Eugene Lengerich (PIs). \$50,000.
74. PSU Institutes of Energy and the Environment. "Ecological Migration in a Large-Scale Quasi-Experiment Design in China: Implications of Climate Change, Landscape Structure, Ecosystem Services and Government Intervention." 4/1/2017–6/30/2018. **PI**. \$25,000.
75. PSU Pathway to Partnership Stage I. "Aggressive Prostate Cancer in Pennsylvania: Health Disparities and Environmental Risk Factors." 8/1/2016–2/1/2017. **Co-I** with Ming Wang and Alicia C. McDonald (Co-PIs). \$5,000.
76. PSU Social Science Research Institute. "The Computational and Spatial Analysis Core's Twitter Initiative as Part of Social Science Research Institute's Strategic Area in Innovative Methods." 6/1/2016–6/1/2019. **PI**. \$83,585.

77. PSU Social Science Research Institute and Institutes of Energy and the Environment. "A Household-level Longitudinal Investigation into the Food Environment's Impact on Food Behavior and Health." 7/1/2015–6/30/2016. **Co-I** with Jennifer Van Hook (PI). \$20,000.
78. PSU Pathway to Partnership Stage I. "Population Health Research in the Era of Big Data." 6/1/2015–11/1/2015. **Co-PI** with Cynthia Chuang (co-PI). \$5,000.
79. MSU Office of Research and Economic Development. "Big Data Analysis in Transportation and Sociology." 8/16/2013–8/15/2014. **Co-PI** with Xiaopeng Li (PI). \$2,000.
80. MSU Office of Research and Economic Development. "Infrastructure and Livable Community." 8/16/2012–8/15/2013. **Co-PI** with Xiaopeng Li (PI). \$2,000.
81. MSU College of Arts and Sciences, Henry Family Research Fund. "Social and Spatial Implications of Gasoline Price Changes on Commuting Behaviors." 06/01/2011–05/31/2012. **PI**. \$5,000.

PUBLICATIONS

Book

1. **Chi, Guangqing** and Jun Zhu. 2019. *Spatial Regression Models for the Social Sciences*. Volume 14 of *Advanced Quantitative Techniques in the Social Sciences*. SAGE Publications: Thousand Oaks, CA. 272 pages. ISBN: 9781544302072; 154430207X. [Reviewed in *Environment and Planning B* (2019); *Spatial Demography* (2020)]

Chinese translation: 2023. Beijing, China: Higher Education Press. 《社会科学的空间回归模型》(王平平[译]). 北京: 高等教育出版社, 260 页. ISBN: 9787040604894.
2. Feng, Yining and **Guangqing Chi**. *AI for the Social Sciences: A Primer*. Springer. 110 pages. [Under Contract]

Commissioned White Paper

3. **Chi, Guangqing**. 2019. "Demographic Forecasting and Future Interstate Highway System Demands." In: *Renewing the National Commitment to the Interstate Highway System: A Foundation for the Future*, pp. 313–350 by the Future Interstate Study Committee of the Transportation Research Board in response to a Congressional request for the Fixing America's Surface Transportation Act of 2015. Washington, D.C.: The National Academies Press. doi.org/10.17226/25334

Peer-Reviewed Journal Articles (and Forthcoming)

* indicates student authors under my supervision at initial submission

4. Smith, M Luke, **Guangqing Chi**, Junjun Yin, Yosef Bodovski, and S. Shyam Sundar. 2026. "County Partisanship Affects Social Media Posting Behavior During a Pandemic." *Social Media and Society* 12(1): 1–12. doi.org/10.1177/20563051261419387
5. Zhou, Shuai, **Guangqing Chi**, and Chuan Liao. 2026. "Spatial Perspective on Environmental Migration: Empirical Insights from a Spatio-Temporal Approach in the United States, 1970–2010." *Demographic Research* xx: xx. doi.org/10.1177/20563051261419387
6. Perera, Chrishma, Eranga Galappaththi, Carol Zavaleta-Cortijo, Timothy Baird, Korine Kolivras, James Ford, Michelle Dickson, Kerrie Pickering, **Guangqing Chi**, Joana Bezerra, Dhanya Vijayan, Victoria Chicamana-Zapata, Cecil Togarepi, Kheminda Thilakarathne, Martha Hangula, Francis Akugre, Richard Nuwagira, Jonathan Nkalubo. 2026. "Transformative Pathways for

Strengthening Climate-Resilient Health Systems Among Indigenous Communities: Advancing Equity and Sustainability in Global Health." *Sustainable Development* xx: xx. doi.org/10.1002/sd.70585

7. Xing, Gaobing, **Guangqing Chi**, Yang Xu, Qiuping Bai, Huan Wang, and Feng Xu. 2026. "Towards Improved Identification of Residential Land Vulnerable to Abandonment in Rural China: A Case Study Using an Integration Approach of Machine Learning Techniques." *Journal of Rural Studies* 122: 103946. doi.org/10.1016/j.jrurstud.2025.103946
8. Anderson, Cory, Shuai Zhou, and **Guangqing Chi**. 2026. "Religious Traditions Exhibit Heterogeneous Effects on Vaccination Uptake: A U.S. County-Level Regression Analysis Supporting Tailored Health Outreach." *American Journal of Preventive Medicine* 70(1): 108139. doi.org/10.1016/j.amepre.2025.108139
9. Paneru, Suman, Julian Wang, Mohammad Elmi, **Guangqing Chi**, and Yuqing Hu. 2025. "Envelope Impact on Indoor Thermal Resilience Across Different Housing Types During Extreme Heatwaves and Power Outages." *Journal of Building Engineering* 115: 114516. doi.org/10.1016/j.jobe.2025.114516
10. Mucioki, Megan, Bronwen Powell, Helen Aderman, Erica Smithwick, Davin Holen, Casey Hamilton, and **Guangqing Chi**. 2025. "Mindfulness, Gratitude and Sharing Are Central to Berry Harvesting Practice, Sustainability and Adaptation in Rural Alaska." *Ecosystems and People* 21(1): 2559671. doi.org/10.1080/26395916.2025.2559671
11. Segel, Joel, Patrick Luan, Mark Ramos, Nicholas Zaorsky, Eugene Lengerich, **Guangqing Chi**, Alison Chetlen, and William Calo. 2025. "Drivers of HPV Vaccination Rates among Adolescent Dependents in the Military Health System." *Vaccine* 64(3): 127753. doi.org/10.1016/j.vaccine.2025.127753
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PRESENTATIONS (selected)

Invited Talks

Grant writing

"Inter- and Trans-Disciplinary Research and Grant Proposals: A Social Scientist's Perspective." 2022. Planning and Landscape Architecture, UW-Madison.

"National Science Foundation: Beyond Standard Grants: NSF's Ten Big Ideas." 2019. ASA annual meeting.

Environmental demography

"Socio-Environmental Systems: Leveraging Spatial and Big Data Analysis for Tackling Global Environmental and Health Challenges."

2025. IUB.

2025. IPON.

"Environmental Demography."

2019. HDNR Graduate Student Organization, PSU.

2019. International U of Kyrgyzstan.

"Environmental Demography: The Power of Computational and Spatial Analysis for Population Research in the Era of Big Data."

2016. Statistics, PSU.

2016. The Methodology Center, PSU.

2016. The Public Health Sciences Seminar, PSU School of Medicine.

"Environmental Demography and Computational and Spatial Analysis." 2015. Quantitative Developmental Systems Methodology, PSU.

"An Integrated Population-Environment Framework." 2014. Geography, SDSU.

Arctic resilience

"Climate Change and Health: Research Opportunities and Challenges in the Arctic."

2024. Center for Demography and Ecology, UW-Madison.

"Climate Migration in the Arctic." 2024. Arctic Congress, Bodo, Norway.

"Pursuing Opportunities for Long-term Arctic Resilience for Infrastructure and Society: A Social Science Perspective." 2024. iHARP workshop, Fairbanks, AK.

"POLARIS: Pursuing Opportunities for Long-term Arctic Resilience for Infrastructure and Society."

2024. UVSQ, France.

2024. FEWSUS workshop, UT Knoxville.

2023. ICIMOD, Nepal.

2023. Rural Sociology Brownbag, PSU.

2023. UiO Arctic Committee, U Oslo.

2023. Climate Solutions Symposium, PSU.

2023. iHARP Seminar, UMBC.

2022. Science on Tap, PSU.

2021. International Workshop on Seismic Resilience of Arctic Infrastructure and Social Systems.

Computational and spatial analysis for social and health research

"Health Equity: Leveraging Spatial and Big Data Analysis for Tackling Global Health Challenges."

2024. NYU GPH Biostatistics.

"Spatial Analysis and Community-Based Research." 2023. CTSI KL2, PSU.

"The (Mis)Representativeness of Twitter Data for Population Health Research." 2019. Discovery Lunchtime Lecture and BERD Seminar, CTSI, PSU.

"Generalizing Geo-Tagged Tweets for Population-Infrastructure Research." 2018. NSF CRISP Grantee Workshop.

"Spatial Analysis for Population Health Research." 2016. BERD Seminar, CTSI, PSU.

"Patient Centered Research: The Power of GIS in the Era of Big Data." 2015. PSU Medicine.

"Population-Centered Big Data Research." 2015. IGERT, PSU.

"South Dakota State Data Center." 2014. Sociology, SDSU.

Coupled pasture-migrant systems

"Coupled Pasture-Migrant Systems in Montane Agropastoralist Communities."

2024. IPON, Peru.

2018. RSEEC, UIUC.

"Household Food Security and Shock Responses in the Rural Southern Kyrgyz Highlands." 2019. Mountain Societies Research Institute Public Lecture series, Bishkek, Kyrgyzstan.

- "From Environmental Change to Left-behind Children's Well-being in Rural Highlands." 2017. International U of Kyrgyzstan.
- "Ecological Migration in Rural Drylands of Central and East Asia within a Coupled Community and Pasture System Framework." 2017. NSF and NASA workshop on Coupled Human Nature System in Mongolian Plateau and Urbanization and Sustainability under Global Change and Transitional Economies in Southeast, East, and North Asia. Ulaanbaatar, Mongolia.
- "Sociodemographic Resilience of High Elevation Communities." 2016. U of Central Asia, Bishkek, Kyrgyzstan.

Amenity-driven development

- "Rural Development." 2016. Office of Executive Leadership Education, Temple U.
- "Amenity-Driven Development." 2014. Geospatial Sciences Center, SDSU.
- "Spatial Variation in Amenity-Driven Rural Development: Implications of Economic Climate, Transportation Infrastructure, and Land Use." 2014. AESE/PRI/SSRI, PSU.

Population-infrastructure nexus

- "Population-Infrastructure Nexus: A Heterogeneous Flow-based Approach for Responding to Disruptions in Interdependent Infrastructure Systems." 2015. NSF Workshop on Resilience Research for Critical Infrastructure.
- "Transportation Impacts on Population Change along the Urban-Rural Continuum." 2011. Geography, U Utah.
- "The Impacts of Highway Expansion on Population Change: A Spatial Demographic View." 2009. College of Engineering, Mississippi State.
- "An Integrated Spatial Approach for Examining Population-Environment Interactions: The Impact of Highway Expansion on Population Change." 2007. Sociology, Mississippi State.
- "An Examination of the Causality between Highway Expansion and Population Change." 2004. Urban Transportation Center, UIC.

Gasoline prices and traffic safety

- "Social and Spatial Implications of Gasoline Price Increases." 2015. Rural Sociology Brown Bag and CANA Working Group, PSU.
2015. Rotary Club, Watertown, SD.
2014. Human Nutrition, SDSU.
2014. Department of Geography, U Toronto Mississauga.
2014. Department of Sociology and Anthropology, UT El Paso.
2013. The Center for the Study of Social Justice, UT Knoxville.

Small-area population estimates and forecasting

- "Small-Area Population Forecasting and Spatio-Temporal Modeling: Demographics, Livability, Accessibility, Desirability, and Developability." 2007. Geography and ESPP, MSU.
2006. Geography, SUNY Buffalo.
2006. SSRC, Mississippi State.
- "A Spatio-Temporal Population Change Model." 2006. SAIC, UW-Madison.

Conference Presentations

- Population Association of America (2004–2008, 2011–2014, 2016–2019, 2021–2025)
- Rural Sociological Society (2008–2009, 2015–2019, 2021–2025)
- Arctic Science Summit Week (2025)
- Arctic Congress (2024)
- Association of American Geographers (2006, 2014, 2017, 2019)
- American Sociological Association (2010, 2019)
- Regional Science Association International (2005, 2009, 2012, 2019)
- International Symposium on Society and Resource Management (2016, 2019, 2025)
- American Geophysical Union (2019)

Southern Demographic Association (2004, 2007–2010, 2013, 2017)
International Union for the Scientific Study of Population (2017)
Transportation Research Board (2011–2013, 2016)

Community Presentations and Outreach

2025. Bristol Bay region, AK. "POLARIS Updates."
2024. Penn State. Panelist on "Newtok: A Film by Andrew Burton & Michael Kirby Smith."
2024. SCASD, PA. "POLARIS."
2023. Copper River Native Association, AK. "Arctic Research."
2022. Wainwright AK. "POLARIS."
2021. SCASD, PA. "The Socio-Environmental Systems: From High Latitudes to High Altitudes."
2021. Dillingham AK. "POLARIS."

TEACHING AND SUPERVISING

IU = Indiana University; PSU = Pennsylvania State University; SDSU = South Dakota State University; MSU = Mississippi State University

Courses Taught at PSU

RSOC 597 Spatial Analysis of Social Data. Spring 2016; Spring 2019; Spring 2021; Spring 2024.
RSOC 597 Elements of Social Statistics. Spring 2018.
CED 410 Population and Environment. Spring 2017; Spring 2020; Spring 2023; Spring 2025.

Courses Taught at MSU

SO4703/6703 Population Problems. Fall 2012; Fall 2013.
SO4990/6990 Transportation and Society. Spring 2012; Spring 2013.
SO8243 Spatial Analysis of Social Data. Fall 2008; Summer 2011; Spring 2014.
SO8274 Graduate Social Statistics I. Spring 2009; Spring 2010; Spring 2011.
SO8284 Graduate Social Statistics II. Fall 2009; Fall 2010; Fall 2011.

Ph.D., M.S., and undergraduate Advisees

Ayşe Akyıldız, Rural Sociology and Demography, PSU, PhD in progress (co-advised with Leif Jensen)
Jessica Miller, Rural Sociology and Demography, PSU, PhD in progress (Associate Demographer, NYC Planning Department)
Sarah Crider, Undergraduate in Linguistics, IU Hutton Honors College, 2026–
Andrea Bendaly, Undergraduate in Environmental Health, IU Hutton Honors College, 2026–
Melissa Kim, Undergraduate thesis supervisee, PSU Schreyer Honors College, 2024–2025
Yining Feng, Rural Sociology and Demography, PSU, PhD 2024 (Postdoc, IU)
Shuai Zhou, Rural Sociology and Demography, PSU, PhD 2023 (Assistant Professor, U South Alabama)
Christian Scott, Rural Sociology and International Agriculture and Development, PSU, PhD 2021 (Postdoc, Michigan State)
Xiaoran Sun, Social Data Analytics, PSU 2019 (research rotation advisee, Assistant Professor, U Minnesota)
Shuai Zhou, Rural Sociology and Demography, PSU, MS 2019
Donghui Wang, Rural Sociology and Demography, PSU, PhD 2018 (Associate Professor, U Macau; co-advised with Leif Jensen)
Bridget Ward, Geographic Information Systems, PSU, MS 2017 (GIS Analyst, HDR, Inc.)
Bishal Kasu, Sociology and Rural Studies, SDSU, PhD 2017 (Postdoc, MIT)
Derrick Shapley, Sociology, MSU, PhD 2015 (Professor and Department Chair, Talladega College)

Postdoc and Research Associates

Yining Feng, Postdoc, IU Geography, 2025– (PSU Population Research Institute, 2025)

Erika Gavenus, Postdoc, IU Geography, 2025– (PSU Population Research Institute, 2024–2025)
Peggy Currid, Research Associate, IU Geography, 2025–
Megan Mucioki, Research Associate, PSU, 2020–2024 (Assistant Professor, Emory U)
Junjun Yin, Research Associate, PSU, 2016–2024 (Assistant Professor, George Washington U)
Supriya Joshi, Research Associate, PSU, 2017–2025 (Assistant Research Professor, PSU)
M. Luke Smith, Research Associate, PSU, 2020–2024 (Assistant Research Professor, PSU)
Cory Anderson, Postdoctoral Fellow, PSU, 2020–2023 (co-mentored with Mary Shenk)

Ph.D. Dissertation and M.S. Thesis Committees

Colby Parkinson (Recreation, Park, and Tourism Management, PSU, PhD in progress); Suman Paneru (Architectural Engineering, PSU, PhD in progress); Rosina Adhikari (Architectural Engineering, PSU, PhD in progress); Saydeh Karabatis (Information Systems, UMBC, PhD in progress); Shiyang Zhang (Geography, PSU, PhD 2025); Haoyang Zhang (Sociology, PSU, PhD 2025); Bianca Wirth (Criminology, PSU, PhD 2025); Chen Xia (Architectural Engineering, PSU, PhD 2024); Jessie Slepicka (Criminology, PSU, PhD 2024); Yun Liang (Recreation, Park, and Tourism Management, PSU, PhD 2023); Rachel L. McNealey (Criminology, PSU, PhD 2023); Katrina Alford (Rural Sociology and Demography, PSU, PhD 2023); Megan Evans (Sociology and Demography, PSU, PhD 2023); Grace Wildermuth (Rural Sociology and Demography, PSU, PhD 2022); Dylan Davis (Anthropology, PSU, PhD 2022); Kaida Zhang (Economics, PSU, PhD 2022); Katie Sneeringer (Public Health Sciences, PSU, PhD 2021); Laura Stiberman (Sociology and Demography, PSU, MS 2021); Xuetao Huang (Agricultural, Environmental, and Regional Economics and Demography, PSU, PhD 2021); Richard Bankoff (Bioethics and Anthropology, PSU, PhD 2020); Qiong Zhu (Higher Education, PhD 2019); Wei-Lin Wang (Rural Sociology and Demography, PSU, PhD 2019); Abou Traore (Rural Sociology, PSU, PhD 2018); Bo Bian (Economics, PSU, PhD 2018); Yunmei Lu (Sociology, PSU, PhD 2018); Mohsen Parsafard (Civil and Environmental Engineering, U South Florida, PhD 2017); Chia-Yueh Hus (Social Work and Social Administration, U of Hong Kong, PhD 2017); Andrew Gladfelter (Criminology, PSU, PhD 2016); Danya Kim (Urban and Regional Planning, U of Wisconsin-Madison, PhD 2016); Jamie Boydston (Sociology, MSU, PhD 2014); Onyumbé E. Lukongo (Finance and Economics, MSU, PhD 2014); Li Zheng (Sociology, MSU, PhD 2013); Philip Mason (Sociology, MSU, PhD 2012); Kaustav Misra (Finance and Economics, MSU, PhD 2010); John S. McCown (Sociology, MSU, MS 2011); Jamie Boydston (Sociology, MSU, MS 2009)

PROFESSIONAL SERVICE (selected)

Disciplinary Service

Editorial:

Deputy Editor, *Demography* (2016–2019)
Editorial Board Member, *Social Forces* (2023–2026)
Advisory Board member, *Population and Environment* (2019–)
Editorial Board member, *Spatial Demography* (2012–)
Editorial Board member, *SN Social Sciences* (2022–)
Ad hoc Article Editor, *SAGE Open* (2014)

Author, *Sixth National Climate Assessment (NCA6)*, Human Health chapter (2024–2027)

National Academies Board on Environmental Change and Society (2023)

Member of Planning Committee for the workshop “Integrating the Human Sciences to Scale Societal Responses to Environmental Change”

NAS Advisory Panel member for

TRB/American Association of Motor Vehicle Administrators: Project 19-01 Demographic and Technological Trends Impacting the DMV of the Future (2019–2020)

Pan-HDR Ice-Melt Community Council member, iHARP, UMBC (2024–present)

NSF review panels and reviewer for:

Civic Innovation Challenge (2021), Coastlines and People Hubs for Research and Broadening Participation (2022), Engineering Research Centers (2015), Geography and Spatial Sciences

(2013), Human, Disaster, and the Built Environment (2022), Human–Environment and Geographical Sciences (2026), Human Networks and Data Science–Infrastructure (2021, 2023), Methodology, Measurement, and Statistics (2014, 2020), NSF Research Traineeship (2020), Office of Polar Program (2024), Smart & Connected Communities (2018), Sociology (2018, 2020, 2023)

NIH review panels:

Analytics and Statistics for Population Research (2024), COBRE P20 Centers of Biomedical Research Excellence (2023), NICHD P2C Population Dynamics Research Infrastructure Program (2023), Social Science and Population Studies B (2015), ZRG1 PSE-C 04 (2016), ZRG1 RPHB-R (2018), ZAG1 ZIJ-5 (2017)

Occasional reviewer for:

NASA: Postdoctoral Program (2016)
European Research Council (ERC): Advanced Grant (2017)
Trans-Atlantic Platform (T-AP) for Social Sciences and Humanities (2021)
U.S.-Israel Binational Science Foundation (2019)
UCLA Institute of Transportation Studies (2020)
UNEP's Global Environment Outlook (GEO-7) Report (2024-2025)
University of Cyprus (2024)
USDA Forest Service project reports (2013)
UN Global Environment Outlook 7 (2025)

Ad hoc reviewer for journals

American Journal of Agricultural Economics; American Journal of Public Health; American Journal of Preventive Medicine; Annals of the American Association of Geographers; Annals of Operations Research; Annals of Regional Science; Applied Ecology and Environmental Research; Applied Spatial Analysis and Policy; BMC Public Health; Bulletin of Geography, Socio-economic Series; Climate Risk Management; Computers, Environment and Urban Systems; Demographic Research; Demography; Ecological Economics; Ecological Processes; Economic Papers; Environment and Planning A; Environmental Research Letters; Environmental Monitoring and Assessment; Geographical Analysis; Growth and Change; Habitat International; International Journal of Digital Earth; International Journal of Geographical Information Science; Jahrbuch für Regionalwissenschaft (Review of Regional Research); International Migration Review; Journal of Appalachian Studies; Journal of Environmental Planning and Management; Journal of Geographical Systems; Journal of Healthcare Informatics Research; Journal of Maps; Journal of Regional Analysis and Policy; Journal of Transport and Land Use; Journal of Urban Technology; Land; Land Use Policy; Landscape and Urban Planning; Mathematical Population Studies: An International Journal of Mathematical Demography; Nature Cities; Nature Communications; Papers in Regional Science; Population and Environment; Population Research and Policy Review; Population, Space and Place; Preventive Medicine; Review of Regional Studies; Regional Studies; Rural Sociology; Social Forces; Social Science and Medicine; Social Science Research; Sociological Inquiry; Sociological Perspectives; Spatial Demography; Spatial Economic Analysis; Scientific Reports; Sustainability; The Rangeland Journal; Theory, Culture & Society; Transport Findings; Transport Policy; Transportation Research Part A: Policy and Practice; Transportation Research Record; Urban Studies

Review books for publisher: *Routledge* (2013); *Springer* (2022); *Peter Lang Group* (2023)

US Bureau of the Census 2014–2015

Member, Federal-State Cooperative Program for Population Estimates; Member, 2020 Census Redistricting Data Program

Invited Participant, Towards Scenarios of U.S. Demographic Change, the Scenarios and Interpretive Science Coordinating Group, U.S. Global Change Research Program, 2014

Population Association of America: Annual Meeting Program Committee Member, 2018, 2022; Session Organizer, 2017, 2018, 2025; Session Chair, 2017, 2018; Session Discussant, 2010, 2017

Rural Sociology Society: Publication Committee Chair-Elect, 2022–2023, Chair 2023–2024; Council Member, 2022–2024; Panelist, 2016; Session Chair, 2009

Southern Demographic Association: Member, Walter E. Terrie Award Committee, 2009, 2010, 2012

Promotion and Tenure Review: Mississippi State University, University of Alaska Fairbanks,
University of Texas Medical Center

University Service at Indiana University

Member, SAVI Research Advisory Committee, Polis Center, 2026–
Member, Steering Committee, Environmental Research Institute, 2025–
Member, Merit Review Committee, Department of Geography, 2025–
Member, Website Committee, Department of Geography, 2025–

University Service at Penn State

Member, Advisory Board, Data-to-Policy and Evidence-to-Impact Collaborative, 2019–2025
Member, Research Computing and Cyberinfrastructure (RCCI) Governance Council's Executive
Committee, 2022–2023
Member, Steering Committee, Social Science Research Institute, 2017–2024
Member, Steering Committee, Institute for CyberScience, 2017–2018
At-Large Representative, Internal Advisory Board, Population Research Institute, 2016–2019
Member, Advisory Board, Graduate Program in Demography, 2016–2023
Delegate of Population Research Institute and Social Science Research Institute to the University
Consortium for Geographic Information Science (UCGIS), 2015–2020
Member, The Scientific Advisory Committee for the Community Sciences and Health Outcomes
Shared Resources, Penn State Cancer Institute, 2016–2018
Chair, Graduate Faculty Review Committee, College of Agricultural Sciences, 2019–2020
Liaison/Member, ME John Seminars Committee, AESE, 2017–2023, 2024–2025
Member, Promotion and Tenure Committee, AESE, 2016–2020, 2021–2023
Member, Faculty Search Committee, AESE and SSRI, 2015–2016, 2017–2020, 2023–2024

MEDIA COVERAGE

ABC, Aberdeen News, American Thinker, BNET, Christian Science Monitor, Chron, Forbes, Fortune, Fox 5 News, Huffington Post, KDLG Bristol Bay Radio, Kiplinger's Personal Finance, Money, National Public Radio, Star Tribune, South Dakota Public Broadcasting, The Conversation, The Oregonian, The Weather Channel, U.S. News and World Reports, VOAnews, WalletHub, and WAMC Northeast Public Radio, among over 2,000 media appearances.

REFERENCES

Available upon request.