

CURRICULUM VITAE

GUANGQING CHI

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Department of Agricultural Economics, Sociology, and Education
The Pennsylvania State University
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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

Pennsylvania State University (2015–present)

Faculty Appointments:

Professor (2020–present) and Associate Professor (2015–2020) of Rural Sociology, Demography, and Public Health Sciences, Department of Agricultural Economics, Sociology, and Education
Director, Computational and Spatial Analysis Core, Social Science Research Institute and Population Research Institute (2015–present)

PSU Affiliations:

Professor (2020–present) and Associate Professor (2016–2020) of Sociology
Research Associate, Population Research Institute (2015–present)
Associate, Institute for Computational and Data Sciences (2017–present)
Graduate Faculty, Social Data Analytics (2016–present)
Graduate Faculty, Applied Demography (2016–present)
Graduate Faculty, International Agriculture and Development (2017–present)
Faculty Affiliate, Engineering Systems and Policy Program (2015–present)

Professional Appointments

Advisory Board member, *Population and Environment* (2019–present)
Editorial Board member, *Spatial Demography* (2012–present)
NAS Advisory Panel member for TRB Project 19-01 (2019–present)
Deputy Editor, *Demography* (2016–2019)

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;
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; DOD = Department of Defense

Active External Grants

1. **NSF** Navigating the New Arctic Program. "NNA Track 1: Pursuing Opportunities for Long-term Arctic Resilience for Infrastructure and Society (POLARIS)" (Award # NNA-1927827). 1/1/2020–12/31/2023. **PI.** \$3,000,000. (REU supplement, Award # NNA-2125212, 8/23/2021–12/3/2021, \$9,000).
2. **NSF** Sociology Program. "RR: The Generalizability and Replicability of Twitter Data for Population Research" (Award # SES-1823633). 7/15/2018–6/30/2022. **PI.** \$500,000.

3. **NSF** Office of Polar Program. "RAPID: Collaborative Research: COVID-19 Preparedness in Remote Fishing Communities in Rural Alaska" (Award # OPP-2032790). **PI**. Project dates: 6/15/2020–5/31/2022. \$44,337.
4. **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.
5. **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). **Co-PI** with Shyam Sundar (PI). Project dates: 7/1/2020–6/30/2021. \$49,017.
6. **DOD**. "Permanent Change of Station and Variation in Cancer Prevention and Care in the Military Health System" (Award # HQ0034-20-1-0002). \$717,562. **Co-I** with Joel Segel (PI). Project dates: 9/29/2019–9/28/2021.
7. **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). 1/1/2018–12/31/2021. **Co-PI** with Ming Xiao (PI). \$500,000.
8. **NIH**. "The Center for Innovation in Intensive Longitudinal Studies (CIILS)" (Award # U24 AA027684). 9/20/2018–8/31/2021. **Co-I** with Sy-Miin Chow (PI). \$1,835,411.
9. **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.
10. **NIH**. "Population Research Institute" (Award # P2C HD041025). 9/4/2016–5/31/2021. **Co-I (PI** of the Computational and Spatial Analysis Core) with Jennifer Van Hook (PI). \$13,179,754.
11. **NIH**. "Play & Learning Across a Year (PLAY)." 4/1/2018–3/31/2023. Consultant with Karen E. Adolph, Catherine Tamis-LeMonda, and Rick Gilmore (PIs). \$8.5 million.
12. Pittsburgh Supercomputer Center. "The Generalizability and Replicability of Twitter Data for Population Research." 4/15/2018–4/16/2021. **PI**. Memory: 50,000 SUs; Storage: 30,000 GB.

Completed External Grants

13. **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.
14. **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.
15. **NASA** Land Use and Land Cover Change Program. "How Environmental Change in Central Asian Highlands Impacts High Elevation Communities" (Award # NNX15AP81G). 7/1/2015–6/30/2018 with an extension to 6/30/2020. **Co-I** with Geoffrey Henebry (PI). \$969,551.
16. **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.
17. 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.
18. PA Tobacco Settlement Fund. "Neighborhood Effects on Health in Pennsylvania." 6/1/2016–12/31/2017. **Co-I** with Cynthia Chuang (PI). \$107,494.
19. **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.
20. **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.
21. South Dakota Rapid City School District. "School Enrollment Projections." 11/1/2014–2/28/2015. **PI**. \$11,500. [Contract]
22. **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.

23. **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.
24. **USDOT** University Transportation Center Program. "National Center for Intermodal Transportation and Economic Competitiveness." 2012–2014. Faculty Affiliate with Burak Eksioglu (PI). \$3,500,000.
25. **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.
26. **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.
27. **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.
28. **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.
29. **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.
30. **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.
31. **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 Research Grants

32. 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." Co-PI with Junjun Yin (PI). Project dates: 4/1/2021–3/31/2022. \$30,000.
33. PSU Social Science Research Institute. "Revisiting Secular Trends on Migration." \$5,000. Co-PI with Elisa Giannone (PI). Project dates: 7/1/2019–6/30/2020.
34. 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." \$30,000. Co-PI with Ting-Hao Huang (PI). Project dates: 3/1/2019–12/31/2020.
35. PSU Social Science Research Institute and Institute for CyberScience. "Food-Water-Energy Choices in Alaska: Mining People's Perception and Attitudes from Geotagged Tweets." \$5,000. Co-PI with Somayeh Asadi (PI). Project dates: 3/1/2019–3/1/2020.
36. 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?" \$20,000. Co-PI with Suresh Kuchipudi (PI). Project dates: 3/1/2019–2/28/2021.
37. Penn State's 2016–2020 Strategic Plan. "Pennsylvania Population Network." 7/1/2018–6/30/2021. Collaborator with Jennifer Glick (PI). \$243,423.
38. PSU Social Science Research Institute. "Spatial Economic Patterns in Refugee Integration: An Analysis of TurkTelecom Call Data Records and Geographic Information Systems." \$20,000. Co-PI with Clio Andris (PI). Project dates: 8/1/2018–7/31/2019.
39. 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.
40. 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.
41. 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.

42. PSU Institute for CyberScience. "The Generalizability and Replicability of Twitter Data for Population Research." 5/1/2018–6/30/2019. PI. \$35,000.
43. 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.
44. 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.
45. 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.
46. 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.
47. 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.
48. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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

Student authors under my supervision are underlined.

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 by *Environment and Planning B* (2019); *Spatial Demography* (2020)

Commissioned White Paper

2. 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: 10.17226/25334.

Peer-Reviewed Journal Articles

In Press or Accepted

3. Yin, Junjun and Guangqing Chi. "Characterizing People's Daily Activity Patterns in the Urban Environment: A Mobility Network Approach with Geographic Context-Aware Twitter Data." *The Annals of the American Association of Geographers*.

4. Pinto, Casey N., Justin K. Niles, Harvey W. Kaufman, Elizabeth M. Marlowe, Damian P. Alagia, Guangqing Chi, and Barbara Van Der Pol. "Impact of the COVID-19 Pandemic on Chlamydia and Gonorrhea Screening in the US." *American Journal of Preventive Medicine*.
5. Wang, Donghui, Annelise D. Hagedorn, and Guangqing Chi. "Remittances and Household Spending Strategies: Evidence from the Life in Kyrgyzstan Study, 2011–2013." *Journal of Ethnic and Migration Studies*.

2021

6. Xiao, Chenghan, Yang Yang, and Guangqing Chi. 2021. "Subway Development and Obesity: Evidence from China." *Journal of Transport & Health* 21: 101065.
7. Mohanty, Somya D., Brown Biggers, Saed Sayedahmed, Nastaran Pourebrahim, Evan B. Goldstein, Rick Bunch, Guangqing Chi, Fereidoon Sadri, Tom McCoy, and Arthur Cosby. 2021. "A Multi-Modal Approach Towards Mining Social Media Data During Natural Disasters – A Case Study of Hurricane Irma." *International Journal of Disaster Risk Reduction* 54: 102032.

2020

8. Chi, Guangqing, Jing Gao, Donghui Wang, Annelise D. Hagedorn, Kamilya Kelgenbaeva, M. Luke Smith, and Geoffrey M. Henebry. 2020. "Agricultural Productivity at the Oblast Level in Post-Soviet Kyrgyzstan, 1990–2014: Implications of Demographic and Climate Changes." *Research in Globalization* 2: 100027.
9. Chi, Guanghua, Fengyang Lin, Guangqing Chi, and Joshua Blumenstock. 2020. "A General Approach to Detecting Migration Events in Digital Trace Data." *PLoS ONE* 15(10): e0239408.
10. Xu, Feng, Zhanqi Wang, Guangqing Chi, and Zhexi Zhang. 2020. "The Impacts of Population and Agglomeration Development on Land Use Intensity: New Evidence behind Urbanization in China." *Land Use Policy* 95: 104639.
11. Xiao, Chenghan, Yang Yang, and Guangqing Chi. 2020. "Does the Mental Health of Migrant Workers Suffer from Long Commute Time? Evidence from China." *Journal of Transport & Health* 19: 100932.
12. Abdar, Moloud, Mohammad Ehsan Basiri, Junjun Yin, Mahmoud Habibnezhad, Guangqing Chi, Shahla Nemat, and Somayeh Asadi. 2020. "Energy Choices in Alaska: Mining People's Perception and Attitudes from Geotagged Tweets." *Renewable & Sustainable Energy Reviews* 124: 109781.
13. Chen, Wanxu, Guangqing Chi, and Jiangfeng Li. 2020. "The Spatial Aspect of Ecosystem Service Balance and Its Determinants." *Land Use Policy* 90: 104263.
14. Chen, Wanxu, Guangqing Chi, and Jiangfeng Li. 2020. "Ecosystem Services and Their Driving Forces in the Middle Reaches of the Yangtze River Urban Agglomerations, China." *International Journal of Environmental Research and Public Health* 17(10): 3717.
15. Yang, Fan, Guangqing Chi, Ge Wang, Shirui Tang, Yunting Li, and Cong Ju. 2020. "Untangle the Complex Stakeholder Relationships in the Consolidation of Rural Settlements in China: A Social Network Approach." *Land* 9(7): 210.
16. Wang, Ming, Guangqing Chi, Yosef Bodovski, Sheldon L. Holder, Eugene J. Lengerich, Emily Wasserman, and Alicia C. McDonald. 2020. "Temporal and Spatial Trends and Determinants of Aggressive Prostate Cancer among Black and White Men with Prostate Cancer." *Cancer Causes and Control* 31(1): 63–71.

2019

17. Chi, Guangqing, Donghui Wang, and Annelise D. Hagedorn. 2019. "Future Interstate Highway System Demands: Predictions Based on Population Projections." *Case Studies on Transport Policy* 7(2): 384–394.
18. Pu, Yingxia, Xinyi Zhao, Guangqing Chi, Jin Zhao, and Fanhua Kong. 2019. "A Spatial Dynamic Panel Approach for Modeling the Space-time Dynamics of Interprovincial Migration Flows in China." *Demographic Research* 41: 913–948.
19. Xu, Feng and Guangqing Chi. 2019. "Spatiotemporal Variations of Land Use Intensity and Its Driving Forces in China, 2000–2010." *Regional Environmental Change* 19(8): 2583–2596.
20. Kamenetsky, Maria, Guangqing Chi, Donghui Wang, and Jun Zhu. 2019. "Spatial Regression Analysis of Poverty in R." *Spatial Demography* 7(2): 113–147.

21. Parsafard, Mohsen, Guangqing Chi, Xiaobo Qu, Xiaopeng Li, and Haizhong Wang. 2019. "Error Measures for Trajectories Estimations with Geo-tagged Mobility Sample Data." *IEEE Transactions on Intelligent Transportation Systems* 20(7): 2566–2583.
22. Pu, Yingxia, Xiao Han, Guangqing Chi, Yaping Wang, Ying Ge, and Fanhua Kong. 2019. "The Impact of Spatial Spillovers on Interprovincial Migration in China, 2005–2010." *Regional Studies* 53(8): 1125–1136.
23. Chi, Guangqing, Derrick Shapley, Tse-Chuan Yang, and Donghui Wang. 2019. "Lost in the Black Belt South: Health Outcomes and Transportation Infrastructure." *Environmental Monitoring and Assessment* 191(S2): 297.
24. Kasu, Bishal and Guangqing Chi. 2019. "Transportation Infrastructures and Socioeconomic Statuses: A Spatial Regression Analysis at the County Level in the Continental United States, 1970–2010." *Spatial Demography* 7(1): 27–56.
25. Chen, Wanxu, Guangqing Chi, and Jiangfeng Li. 2019. "The Spatial Effects of Land Use and Land Cover Change on Ecosystem Services Intensity at the County Level in China, 1995–2015." *Science of the Total Environment* 669: 459–470.
26. Pu, Yingxia, Xinyi Zhao, Guangqing Chi, Shuhe Zhao, Jiechen Wang, Zhibin Jin, and Junjun Yin. 2019. "Design and Implementation of a Parallel Geographically Weighted k-Nearest Neighbor Classifier." *Computers and Geosciences* 127: 111–122.
27. Xu, Feng, Hung Chak Ho, Guangqing Chi, and Zhanqi Wang. 2019. "Abandoned Rural Residential Land: Using Machine Learning Methods to Identify Rural Residential Land Vulnerable to be Abandoned in Mountainous Areas." *Habitat International* 84: 43–56.

2018

28. Chi, Guangqing and Donghui Wang. 2018. "Population Projection Accuracy: The Impacts of Sociodemographics, Accessibility, Land Use, and Neighbor Characteristics." *Population, Space and Place* 24(5): e2129.
Winner of the 2017 E. Walter Terrie Best Paper Award in Applied Demography, Southern Demographic Association.
29. Kasu, Bishal and Guangqing Chi. 2018. "The Evolving and Complementary Impacts of Transport Infrastructures on Population and Employment Change in the United States, 1970–2010." *Population Research and Policy Review* 37(6): 1003–1029.
30. Kasu, Bishal and Guangqing Chi. 2018. "Intercity Passenger Rails: Facilitating the Spatial Spillover Effects of Population and Employment Growth in the United States, 2000–2010." *Journal of Urban Planning and Development* 144(4): 04018037.
31. Li, Chuo, Guangqing Chi, and Robert Jackson. 2018. "Neighborhood Built Environment and Walking Behaviors: Evidence from the Rural American South." *Indoor and Built Environment* 27(7): 938–952.
32. Li, Chuo, Amir Ghiasi, Xiaopeng Li, and Guangqing Chi. 2018. "Sociodemographics and Access to Organic and Local Food: A Case Study of New Orleans, Louisiana." *Cities: The International Journal of Urban Policy and Planning*. 79: 141–150.
33. Chi, Guangqing and Hung Chak Ho. 2018. "Population Stress: A Spatiotemporal Analysis of Population Change and Land Development at the County Level in the Continental United States, 2000–2010." *Land Use Policy* 70(1): 128–137.
34. Chen, Xinxiang, Guanghua Chi, and Guangqing Chi. 2018. "Do Airports Boost Economic Development by Attracting Talent? An Empirical Investigation at the Sub-County Level." *Social Science Quarterly* 99(1): 313–329.
35. Ho, Hung Chak, Anders Knudby, Guangqing Chi, Mehdi Aminipouri, and Derrick Yuk-Fo Lai. 2018. "Spatiotemporal Analysis of Regional Socio-Economic Vulnerability Change Associated with Heat Risks in Canada." *Applied Geography* 95(1): 61–70.
36. Li, Kun, Guangqing Chi, Ling Wang, Yujing Xie, Xiangrong Wang, and Zhengqiu Fan. 2018. "Identifying the Critical Riparian Buffer Zone with the Strongest Linkage between Landscape Characteristics and Surface Water Quality." *Ecological Indicators* 93: 741–752.

2017

37. Chi, Guangqing and Jamie Boydstun. 2017. "Are Gasoline Prices a Factor in Residential Relocation Decisions? Preliminary Findings from the American Housing Survey, 1996–2008." *Journal of Planning Education and Research* 37(3): 334–346.

38. Pinto, Casey, Lorah D. Dorn, Vernon M. Chinchilli, Ping Du, and Guangqing Chi. 2017. "Rural Counties Chlamydia and Gonorrhea Rates in Pennsylvania Among Adolescents and Young Adults." *Annals of Epidemiology* 27(9): 606–610.
39. Wang, Donghui and Guangqing Chi. 2017. "Different Places, Different Stories: A Study of Spatial Heterogeneity of County-Level Fertility in China." *Demographic Research* 37: 493–526.

2015

40. Chi, Guangqing, Willie Brown, Xiang Zhang, and Yanbing Zheng. 2015. "Safer Roads Owing to Higher Gasoline Prices: How Long It Takes." *American Journal of Public Health* 105(8): 119–125. Interviewed by *National Public Radio, Huffington Post, The Weather Channel, South Dakota Public Broadcasting, VOAnews, KSFY ABC, Fox 5 News New York, Money*, and many other news media.
41. Clement, Matthew, Guangqing Chi, and Derrick Ho. 2015. "Urbanization and Land Use Change: A Human Ecology of Deforestation Across the United States, 2001–2006." *Sociological Inquiry* 85(4): 628–653.
42. Li, Chuo, Guangqing Chi, and Robert Jackson. 2015. "Perceptions and Barriers to Walking in the Rural American South: The Influence of the Neighborhood Built Environment on Pedestrian Behaviors." *Urban Design International* 20(4): 255–273.

2013

43. Chi, Guangqing and David W. Marcouiller. 2013. "In-Migration to Remote Rural Regions: The Relative Impacts of Natural Amenities and Land Developability." *Landscape and Urban Planning* 117(1): 22–31.
44. Chi, Guangqing, Jeremy R. Porter, Arthur G. Cosby, and David Levinson. 2013. "The Impact of Gasoline Price Changes on Traffic Safety: A Time Geography Explanation." *Journal of Transport Geography* 28(1): 1–11.
45. Chi, Guangqing and David W. Marcouiller. 2013. "Natural Amenities and Their Effects on Migration along the Urban-Rural Continuum." *The Annals of Regional Science* 50(3): 861–883.
46. Chi, Guangqing, Mohammed A. Quddus, Arthur Huang, and David Levinson. 2013. "Gasoline Prices Effects on Traffic Safety in Urban and Rural Areas: Evidence from Minnesota, 1998–2007." *Safety Science* 59(1): 154–162.
47. Robertson, Angela A., Sheena Gardner, Xiaohu Xu, Guangqing Chi, and D. Lee McCluskey. 2013. "Mississippi's DUI Offender Intervention: 40 Years of Programming and Research." *Journal of Offender Rehabilitation* 52(2): 138–155.
48. Chi, Guangqing and Yanbing Zheng. 2013. "Estimating Transport Footprint along Highways at Local Levels: A Combination of Network Analysis and Kriging Methods." *International Journal of Sustainable Transportation* 7(3): 261–273.

2012

49. Chi, Guangqing. 2012. "The Impacts of Transport Accessibility on Population Change across Rural, Suburban, and Urban Areas: A Case Study of Wisconsin at Subcounty Levels." *Urban Studies* 49(12): 2711–2731.
50. Chen, Xinxiang and Guangqing Chi. 2012. "Natural Beauty, Money, and Talent Distribution: A Local-Level Panel Data Analysis." *Population Research and Policy Review* 31(5): 665–681.
51. Chi, Guangqing and David W. Marcouiller. 2012. "Recreational Homes and Migration to Remote Amenity-Rich Areas." *Journal of Regional Analysis and Policy* 42(1): 47–60. Invited Presidential Symposium for the 2011 annual meeting of the Mid-Continent Regional Science Association.
52. Chi, Guangqing, Timothy E. McClure, and David B. Brown. 2012. "Gasoline Prices and Traffic Crashes in Alabama, 1999–2009." *Traffic Injury Prevention* 13(5): 476–484.

2011

53. Chi, Guangqing and Paul R. Voss. 2011. "Small-Area Population Forecasting: Borrowing Strength across Space and Time." *Population, Space and Place* 17(5): 505–520.
54. Chi, Guangqing and David W. Marcouiller. 2011. "Isolating the Effect of Natural Amenities on Population Change at the Local Level." *Regional Studies* 45(4): 491–505.
55. Chi, Guangqing, Xuan Zhou, and Paul R. Voss. 2011. "Small-Area Population Forecasting in an Urban Setting: A Spatial Regression Approach." *Journal of Population Research* 28(2): 185–201.

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2010 and before

61. Chi, Guangqing. 2010. "The Impacts of Highway Expansion on Population Change: An Integrated Spatial Approach." *Rural Sociology* 75(1): 58–89.
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63. Chi, Guangqing. 2010. "Land Developability: Developing an Index of Land Use and Development for Population Research." *Journal of Maps* 2010: 609–617.
64. Chi, Guangqing. 2009. "Can Knowledge Improve Population Forecasts at Subcounty Levels?" *Demography* 46(2): 405–427.
Winner of the 2007 E. Walter Terrie Best Paper Award in Applied Demography, Southern Demographic Association.
65. Chi, Guangqing and David W. Marcouiller. 2009. "Rethinking the Migration Effects of Natural Amenities: Part I." *Canadian Journal of Regional Science* 32(3): 331–348.
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74. Parisi, Domenico, Steven M. Grice, Guangqing Chi, and Jed Pressgrove. 2011. "Poverty, Work, and the Local Environment: TANF and EITC." In: *Economic Restructuring and Family Well-Being in Rural America*, pp. 320–335, edited by Ann Tickamyer and Kristin Smith. University Park, PA: Pennsylvania State University Press.

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79. Aidaraliev AA, GM Henebry, G Chi, P Groisman, M Tomaszewska, MS Baihodjoev, KA Kelgenbaeva, 2019. "Climatic impacts on mountainous livelihood in Kyrgyzstan." Proceedings of the 15th anniversary of the Foundation of CAIAG "Remote and Terrestrial Research of the Land in Central Asia", September 17–18, 2019, Bishkek, Kyrgyzstan, pp. 148–153 (in Russian).
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84. Chi, Guangqing, Jeremy R. Porter, Arthur G. Cosby, and David Levinson. 2013. "Understanding the Impact of Gasoline Price Changes on Traffic Safety: A Time Geography Approach." #13–1687. The Transportation Research Board, January 13–17, 2013, Washington, D.C.
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88. Chi, Guangqing. 2010. "Estimating Transport Ecological Footprint at Local Levels: An Ordinary Kriging Approach." #8A02–ICSU10386. The First International Conference on Sustainable Urbanization, December 15–17, 2010, Hong Kong.

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95. Chi, Guangqing. 2013. "Applied Spatial Data Analysis with R" by Roger S. Bivand, Edzer J. Pebesma, and Virgilio Gómez-Rubio (New York, NY: Springer. 374 + xiv. ISBN: 978-0-387-78170-9). *Spatial Demography* 1(2): 227–228.

Other Publications

96. Singh, Lisa, Leticia Bode, Pamela Davis-Kean, Tanya Berger-Wolf, Ceren Budak, Guangqing Chi, Andy Guess, Jennifer Hill, Adam Hughes, Brad Jensen, Frauke Kreuter, Jonathan Ladd, Margaret Little, Zeina Mneimneh, Kevin Munger, Josh Pasek, Trivellore Raghunathan, Rebecca Ryan, Stuart Soroka, and Michael Traugott. 2020. "Study Designs for Quantitative Social Science Research Using Social Media." [PsyArXiv, <https://doi.org/10.31234/osf.io/zp8q2>]
97. Singh, Lisa, Shweta Bansal, Leticia Bode, Ceren Budak, Guangqing Chi, Kornraphop Kawintiranon, Colton Padden, Rebecca Vanarsdall, Emily Vraga, and Yanchen Wang. 2020. "A First Look at COVID-19 Information and Misinformation Sharing on Twitter." [arXiv:2003.13907]
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100. Wang, Donghui and Guangqing Chi. 2018. "The Spatial Heterogeneity of County-Level Fertility in China." Report No. 85, The Young Scholar Committee of Chinese Population Association. <https://mp.weixin.qq.com/s/iJvn7cu6trpPYKhM6reNAA>. [in Chinese]
101. Chi, Guangqing, Bishal Kasu, and Annelise D. Hagedorn. 2016. "The Economic Demography of Passenger Intermodal Transportation: Opportunities and Challenges." Project Report No. 13-007. National Center for Intermodal Transportation for Economic Competitiveness, U.S. Department of Transportation. <https://trid.trb.org/view.aspx?id=1400760>.
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103. Chi, Guangqing and Mary Killsahundred. 2015. "Rapid City School District School-Level Enrollment Projections 2015–2024." Project Report. The Black Hills Knowledge Network, Rapid City, SD.
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105. Chi, Guangqing. 2014. "South Dakota State Data Center Newsletter, Fall 2014 Issue." Rural Life and State Data Center, Department of Sociology and Rural Studies, South Dakota State University.
106. Chi, Guangqing. 2014. "Traffic Fatalities Have Been Declining Steadily Since 2005: Why?" In: *Mississippi Traffic Safety Data Book 2014*, pp. 13–16, edited by McKee, C., Burns, M.A., Farrell, B., Neaves, T., Falls, A., Singletary, K., Nguyen, J., & Ginn, A. Starkville, MS: Social Science Research Center, Mississippi State University.

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108. Chi, Guangqing and Jamie Boydston. 2013. "Passenger Usages of the Intermodal Transportation System: An Analysis of the 2009 National Household Travel Survey Data." Project Report. National Center for Intermodal Transportation for Economic Competitiveness, U.S. Department of Transportation.
109. Chi, Guangqing and Jamie Boydston. 2012. "Passenger Responses to Gasoline Price Increases: Residential Relocation and Intermodal Transportation." Project Report. Henry Family Research Fund, College of Arts and Sciences, Mississippi State University.
110. Chi, Guangqing. 2010. "Assessing Economic and Demographic Impacts of Intermodal Transportation Systems." Project Report. National Center for Intermodal Transportation, U.S. Department of Transportation.
111. Mo, Xiugen, Guangqing Chi, and Charles A. Campbell. 2009. "The Temporal and Spatial Effect of Highways on China's Economic Growth." Working Paper. Social Science Research Network. Available at SSRN: <http://ssrn.com/abstract=1580246>.
112. Voss, Paul R. and Guangqing Chi. 2004. "On the Causality between Highway Expansion and Population Change: A Spatial Multivariate Regression Analysis." *Applied Demography* 17(2): 5–6.
113. Chi, Guangqing. 1999. "Identifying and Weighing Environmental Factors in Communities." *Shanghai Property Management* 24: 24–25. [in Chinese]
114. Chi, Guangqing. 1999. "Applying the ISO14001 Environmental Management System to Manage Communities: A Case Study of Ching Chu Garden, Shanghai." *Shanghai Property Management* 24:18–20. [in Chinese]
115. Wang, Xiangrong and Guangqing Chi. 1999. "Implementing the ISO14001 Environmental Management System to Improve the Ecological Construction of Urban Communities." *Shanghai Property Management* 24:10–13, 17. [in Chinese]

TEACHING AND SUPERVISING

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.
 RSOC 597 Elements of Social Statistics. Spring 2018.
 CED 410 Population and Environment. Spring 2017; Spring 2020.

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. and M.S. Advisees

Jessica Miller, Rural Sociology and Demography, PSU, PhD in progress
 Yining Feng, Rural Sociology and Demography, PSU, PhD in progress
 Shuai Zhou, Rural Sociology and Demography, PSU, PhD in progress
 Christian Scott, Rural Sociology and International Agriculture and Development, PSU, PhD 2021
 (Research Associate, Michigan State)
 Xiaoran Sun, Social Data Analytics, PSU 2019 (research rotation advisee)
 Shuai Zhou, Rural Sociology and Demography, PSU, MS 2019
 Donghui Wang, Rural Sociology and Demography, PSU, PhD 2018 (Assistant Professor, Renmin University of China; 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, South Dakota State U)
 Derrick Shapley, Sociology, MSU, PhD 2015 (Associate Professor, Talladega College)

Faculty and Postdoc Mentees

Cory Anderson, Postdoctoral Fellow, Population Research Institute, PSU, 2020–present (co-mentored with Mary Shenk)

Casey Pinto, Assistant Professor of Public Health Sciences, PSU, 2016–present

Heng Xu, Associate Professor of Information Sciences and Technology, PSU, 2017–2018 (SSRI Faculty Fellow)

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

Dylan Davis (Anthropology, PSU, PhD in progress); Katie Sneeringer (Public Health Sciences, PSU, PhD in progress); Kaida Zhang (Economics, PSU, PhD in progress); Katrina Alford (Rural Sociology and Demography, PSU, PhD in progress); Grace Wildermuth (Rural Sociology and Demography, PSU, PhD in progress); 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); Onyembe 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)

Assistants Funded and/or Supervised

RA = Research Associate; GRA = Graduate Research Assistant; GTA = Graduate Teaching Assistant; URA = Undergraduate Research Assistant

Megan Mucioki (PSU RA 2020–); M. Luke Smith (PSU RA 2020–); Junjun Yin (PSU RA 2016–); Jessica Miller (PSU GRA 2020–); Yining Feng (PSU GRA 2019–); Shuai Zhou (PSU GRA 2017–); Christian Scott (PSU GRA 2016–2020); Matthew Brooks (PSU GRA 2019–2020); Tracy Shen (PSU GRA 2019); Katrina Alford (PSU GRA 2019); Samarth Gupta (PSU GRA 2019); Donghui Wang (PSU GRA 2015–2018); Wei-Lin Wang (PSU GRA 2016–2017); Annelise D. Hagedorn (PSU GRA 2015–2017); Xuetao Huang (PSU GRA 2015–2016); Bishal Kasu (SDSU GRA 2014–2015); Mary Kill-A-Hundred (SDSU GRA 2014–2015); Susan Yerhot (SDSU GRA 2014–2015); Jamie Boydston (MSU GRA 2011–2013); Willie Brown (MSU RA 2013–2014); Paul Gilbert (MSU GRA 2008–2010); Taylor Hackemack (MSU URA 2011–2014); Derrick Ho (MSU GRA 2012); Bishal Kasu (MSU GRA 2013–2014); Tim McClure (MSU GRA 2011–2012); John McCown (MSU GTA 2009–2011); Xiaojin Song (MSU GTA 2012); Xuan Zhou (MSU GRA 2009–2011)

Visiting Scholars/Students Hosted

Chao Wang (Beijing Normal University, 2019–2020); Fan Yang (Huazhong Agriculture University, 2019–2020); Chenghan Xiao (Sichuan University, 2019–2020); Yingxia Pu (Nanjing University, 2018); Feifei Chen (Renmin University of China, 2018); Wanxu Chen (China University of Geosciences, 2017–2019); Kun Li (Fudan University, 2017); Myrzagul Mamadiiarova (International University of Kyrgyzstan, 2017); Feng Xu (China University of Geosciences, 2016–2018)

PROFESSIONAL SERVICE (selected)

Disciplinary Service

Deputy Editor, *Demography* (2016–2019)

Advisory Board member, *Population and Environment* (2019–2023)

Editorial Board member, *Spatial Demography* (2012–)

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–)

Grant panelist/reviewer for

NSF: Sociology program (2020, 2018), Human Networks and Data Science–Infrastructure (2021), NSF Research Traineeship (2020), Methodology, Measurement, and Statistics (2020, 2014), Smart & Connected Communities (2018), Engineering Research Centers program (2015), Geography and Spatial Sciences program (2013)
NIH: 10 ZRG1 RPHB-R (2018), 01 ZAG1 ZIJ-5 (2017), ZRG1 PSE-C 04 (2016), Social Science and Population Studies B (2015)
NASA: Postdoctoral Program (2016)
European Research Council (ERC): Advanced Grant (2017)
U.S.-Israel Binational Science Foundation (2019)
UCLA Institute of Transportation Studies (2020)

Review project reports for

USDA Forest Service (2013)

Review manuscripts for journals

American Journal of Agricultural Economics; American Journal of Public Health; American Journal of Preventive Medicine; 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; 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; 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

Article Editor, *SAGE Open* (2014)

Review books for publisher: *Routledge* (2013)

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

Chair, 2018 Program Subcommittee on Population, Environment, and Development

Session Organizer, 2018, 2017; Session Chair, 2018, 2017; Session Discussant, 2017, 2010

Rural Sociology Society: Panelist, 2016; Session Chair, 2009

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

University Service

Member, Advisory Board, Data-to-Policy and Evidence-to-Impact Collaborative, 2019–

Member, Steering Committee, Social Science Research Institute, 2017–

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–

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, ME John Seminars Committee, AESE, 2018–2019, 2019–2020
Member, Promotion and Tenure Committee, AESE, 2016–2017, 2017–2020
Member, Faculty Search Committee, AESE, 2015–2016, 2017–2018

AWARDS AND HONORS (selected)

E. Walter Terrie Best Paper Award in Applied Demography (2017), Southern Demographic Association
(with Donghui Wang)
Faculty Research Award in Social and Behavioral Sciences (2013), College of Arts and Sciences,
Mississippi State University
2nd Place Award (2012), Transportation Workshop, Mississippi State University (with Jamie Boydston)
Cherri M. Musser State Pride Faculty Award (2011), Mississippi State University
Researcher of the Month (February 2011), College of Arts and Sciences, Mississippi State University
William N. Clark State Pride Faculty Award (2010), Mississippi State University
Research Fellow (2008), Social Science Research Center, Mississippi State University
E. Walter Terrie Best Paper Award in Applied Demography (2007), Southern Demographic Association

REFERENCES

Available upon request.