

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

CURRENT POSITIONS AND AFFILIATIONS

Pennsylvania State University (2015–)

Associate Professor of Rural Sociology and Demography, Department of Agricultural Economics, Sociology, and Education (2015–)

Director (Faculty Director 2015–2016), Computational and Spatial Analysis Core (previously the GIA Core and the DPS Core), Population Research Institute and Social Science Research Institute (2015–)

Research Associate, Population Research Institute (2015–)

Associate Professor of Public Health Sciences, School of Medicine (courtesy appointment; 2016–)

Associate Professor of Sociology (courtesy appointment; 2016–)

Graduate Faculty, Social Data Analytics (2016–)

Graduate Faculty, Applied Demography (2016–)

Graduate Faculty, International Agriculture and Development (2017–)

Faculty Affiliate, Engineering Systems and Policy Program, the Thomas D. Larson Pennsylvania Transportation Institute (2015–)

Associate, Institute for CyberScience (2017–)

Deputy Editor, *Demography* (2016–2019)

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

PREVIOUS POSITIONS AND AFFILIATIONS

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

Member, Federal-State Cooperative Program for Population Estimates, U.S. Bureau of the Census

South Dakota Representative, 2020 Census Redistricting Data Program, U.S. Bureau of the Census

Affiliated Researcher, the Networks, Economics, and Urban Systems (NEXUS) research group,

Department of Civil Engineering, University of Minnesota (2010–2016)

Faculty Affiliate, National Center for Intermodal Transportation for Economic Competitiveness, U.S.
Department of Transportation (2012–2016)
Mississippi State University (2006–2014)
Associate Professor (2013–2014), Department of Sociology
Assistant Professor (2008–2013), Department of Sociology
Research Scientist (2008–2014), Social Science Research Center
Postdoctoral Fellow (2006–2008), Social Science Research Center
University of Wisconsin-Madison (2002–2006)
Research Assistant, Applied Population Laboratory, Center for Demography and Ecology
Michigan Technological University (2000–2002)
Teaching Assistant, Department of Social Sciences
Ching Chu Property Management Co. Ltd., Shanghai, China (1998–2000)
Environmental Project Manager and Internal Auditor of the ISO14001 and ISO9002 Programs

PUBLICATIONS

* designates student authors under my direct supervision when developing the article;
The Impact Factor (IF) and ranking are obtained from ©Thomson Reuters Journal Citation Reports.

Books

1. **Chi, Guangqing** and Jun Zhu. *Spatial Regression Models for the Social Sciences*. SAGE Publications: Thousand Oaks, CA. (under contract)

Commissioned White Papers

2. **Chi, Guangqing**. 2017. *Demographic Forecasting and Future Interstate Highway System Demands*. The National Academy of Sciences, Washington, D.C. [commissioned and invited white paper for 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]

Peer-Reviewed Journal Articles

3. Pinto, Casey, Lorah D. Dorn, Vernon M. Chinchilli, Ping Du, and **Guangqing Chi**. Accepted. "Rural Counties Chlamydia and Gonorrhea Rates in Pennsylvania Among Adolescents and Young Adults." *Annals of Epidemiology*.
4. Li, Chuo, **Guangqing Chi**, and Robert Jackson. Forthcoming. "Neighborhood Built Environment and Walking Behaviors: Evidence from the Rural American South." *Indoor and Built Environment*. [2014 IF: 1.225; Ranking: 20/59 Construction & Building Technology; 32/47 Engineering, Environmental; 109/165 Public, Environmental & Occupational Health]
5. Chen, Xinxiang, Guanghua Chi, and **Guangqing Chi**. Forthcoming. "Do Airports Boost Economic Development by Attracting Talent? An Empirical Investigation at the Sub-County Level." *Social Science Quarterly*. [2014 IF: 0.791]

6. **Chi, Guangqing** and Jamie Boydstun*. 2017. "Gasoline Price Changes and Residential Relocation: Preliminary Findings from the American Housing Survey, 1996–2008." *Journal of Planning Education and Research* 37(3): 334–346. [2016 IF: 1.689; Ranking:12/38 Urban Studies; 20/55 Planning & Development; the flagship journal of the Association of Collegiate Schools of Planning]
7. 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. [2016 IF: 1.320; Ranking:12/26 Demography]
8. **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. [2014 IF: 4.552; Ranking: 5/147 Public, Environmental and Occupational Health]

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.
9. 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. [2014 IF: 0.75]
10. 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. [2014 IF: 0.375]
11. **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. [2014 IF: 23.037; Ranking: 1/37 Urban Studies; 4/76 Geography; 6/100 Environmental Studies]
12. **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. [2011 IF: 2.538; Ranking: 2/24 Transportation; 7/73 Geography]
13. **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. [2014 IF: 2.548; Ranking: 8/30 Transportation; 16/100 Environmental Studies]
14. **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. [2011 IF: 1.026; Ranking: 34/73 Geography; 56/89 Environmental Studies]
15. **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. [2011 IF: 1.402; Ranking: 19/77 Operation Research & Management Science; 14/43 Industrial Engineering 14/43]

16. Robertson, Angela A., Sheena Gardner, Xiaohe 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.
 17. **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. [2010 IF: 1.513; Ranking: 6/36 Urban Studies; 24/78 Environmental Studies]
 18. 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. [2010 IF: 0.923; Ranking: 17/23 Demography]
 19. **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.
20. **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. [2010 IF: 1.401; Ranking: 11/23 Transportation; 51/116 Public, Environmental & Occupational Health]
 21. **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. [2011 IF: 1.815; Ranking: 3/23 Demography; 16/73 Geography]
 22. **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.
 23. **Chi, Guangqing**, Xuan Zhou*, Timothy E. McClure*, Paul A. Gilbert*, Arthur G. Cosby, Li Zhang, Angela A. Robertson, and David Levinson. 2011. "Gasoline Prices and Their Relationship to Drunk-Driving Crashes." *Accident Analysis and Prevention* 43(1): 194–203. [2010 IF: 2.350; Ranking: 1/23 Transportation; 2/84 Social Sciences, Interdisciplinary; 18/116 Public, Environmental & Occupational Health; 1/14 Ergonomics]
 24. **Chi, Guangqing** and Stephen J. Ventura. 2011. "An Integrated Framework of Population Change: Influential Factors, Spatial Dynamics, and Temporal Variation." *Growth and Change* 42(4): 549–570. [2010 IF: 1.068; Ranking: 23/54 Planning & Development]
 25. **Chi, Guangqing** and Domenico Parisi. 2011. "Highway Expansion Effects on Urban Racial Redistribution in the Post-Civil Rights Period." *Public Works Management and Policy* 16(1): 40–58.
 26. Misra, Kaustav* and **Guangqing Chi**. 2011. "Measuring Public School Competition from Private Schools: A Gravity-Based Index." *Journal of Geographic Information System* 3(4): 306–311.
 27. **Chi, Guangqing** and Stephen J. Ventura. 2011. "Population Change and Its Driving Factors in Rural, Suburban, and Urban Areas of Wisconsin, USA, 1970–2000." *International Journal of Population Research* 2011: 1–14.

28. **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. [2010 IF: 1.259; Ranking: 27/67 Geography; 33/78 Environmental Studies]
29. **Chi, Guangqing**. 2010. "The Impacts of Highway Expansion on Population Change: An Integrated Spatial Approach." *Rural Sociology* 75(1): 58–89. [2011 IF: 1.886; Ranking: 12/137 Sociology]
30. **Chi, Guangqing**. 2010. "Land Developability: Developing an Index of Land Use and Development for Population Research." *Journal of Maps* 2010: 609–617. [2010 IF: 0.623; Ranking: 48/67 Geography]

Supplemental Maps: "Undevelopable Lands in Wisconsin, USA, 2001" and "Land Developability in Wisconsin, USA, 2001".
31. **Chi, Guangqing**, Arthur G. Cosby, Mohammed A. Quddus, Paul A. Gilbert*, and David Levinson. 2010. "Gasoline Prices and Traffic Safety in Mississippi." *Journal of Safety Research* 41(6): 493–500. [2010 IF: 1.336; Ranking: 12/23 Transportation; 14/84 Social Sciences, Interdisciplinary; 55/116 Public, Environmental & Occupational Health; 6/14 Ergonomics]
32. **Chi, Guangqing**. 2009. "Can Knowledge Improve Population Forecasts at Subcounty Levels?" *Demography* 46(2): 405–427. [2010 IF: 2.465; Ranking: 1/24 Demography]

Winner of the 2007 E. Walter Terrie Best Paper Award in Applied Demography, Southern Demographic Association.
33. **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.
34. **Chi, Guangqing** and David W. Marcouiller. 2009. "Rethinking the Migration Effects of Natural Amenities: Part II." *Canadian Journal of Regional Science* 32(3): 349–360.
35. **Chi, Guangqing** and Jun Zhu. 2008. "Spatial Regression Models for Demographic Analysis." *Population Research and Policy Review* 27(1): 17–42. [2010 IF: 0.923; Ranking: 17/23 Demography]

Reprinted in Salvatore Babones (Ed.) 2013. *Applied Statistical Modeling*. SAGE Publications. ISBN: 978-1-4462-0839-7.
36. Voss, Paul R. and **Guangqing Chi**. 2006. "Highways and Population Change." *Rural Sociology* 71(1): 33–58. [2011 IF: 1.886; Ranking: 12/137 Sociology]
37. **Chi, Guangqing**, Paul R. Voss, and Steven C. Deller. 2006. "Rethinking Highway Effects on Population Change." *Public Works Management and Policy* 11(1): 18–32.
38. **Chi, Guangqing** and Paul R. Voss. 2005. "Migration Decision-Making: A Hierarchical Regression Approach." *Journal of Regional Analysis and Policy* 35(2): 11–22.
39. **Chi, Guangqing** and Brian Stone, Jr. 2005. "Sustainable Transport Planning: Estimating the Ecological Footprint of Vehicle Travel in Future Years." *Journal of Urban Planning and Development* 131(3): 170–180. [2011 IF: 1.032; Ranking: 16/37 Urban Studies]

Book Chapters

40. Kasu, Bishal*, Ernesto Castañeda, and **Guangqing Chi**. 2017. "Remittance-driven Migration in spite of Microfinance? The Case of Nepalese Households." In: *Immigration and Categorical Inequality: Migration to the City and the Birth of Race and Ethnicity*, edited by Ernesto Castañeda. New York: Routledge.
41. **Chi, Guangqing** and Donghui Wang*. 2016. "Small-Area Population Forecasting: A Geographically Weighted Regression Approach." In: *The Frontiers of Applied Demography*, pp. 449–471, edited by David Swanson. New York: Springer.
42. 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.

Manuscripts under Review

43. Chi, Guangqing and Hung Chak Ho. "Population Stress: A Spatiotemporal Analysis of Population Change and Land Development at the County Level in the Continental United States, 2000–2010."
44. Chi, Guangqing and Donghui Wang*. "Population Projection Accuracy: The Impacts of Sociodemographics, Accessibility, Land Use, and Neighboring Spatial Units' Characteristics."
45. Shapley, Derrick*, Guangqing Chi, Tse-Chuan Yang, and Donghui Wang*. "Lost in the Black Belt South: Health and Access to Highways and Airports."
46. Kasu, Bishal* and Guangqing Chi. "The Impact of Passenger Rails on Population and Employment Change in the United States, 2000–2010."
47. Ho, Hung Chak, Anders Knudby, Guangqing Chi, Mehdi Aminipouri, and Derrick Yuk-Fo Lai. "Spatiotemporal Analysis of Regional Socio-Economic Vulnerability Change Associated with Heat Risks in Canada."
48. Chi, Guangqing, Annelise D. Hagedorn*, Donghui Wang*, Kamilya Kelgenbaeva, and Geoffrey M. Henebry. "Agricultural Production in the Post-Soviet Kyrgyzstan: The Implication of Demographic and Climate Changes."
49. Kasu, Bishal* and Guangqing Chi. "The Evolving Impacts of Transport Infrastructures on Population and Employment Change in the United States, 1970–2010."
50. Parsafard, Mohsen, Guangqing Chi, Xiaobo Qu, Xiaopeng Li, and Haizhong Wang. "Error Measures for Trajectories Estimations with Geo-Tagged Mobility Sample Data."
51. Li, Chuo, Amir Ghiasi, Xiaopeng Li, and Guangqing Chi. "Access to Organic and Local Foods: Socio-Demographic Explanations."
52. Van Hook, Jennifer, Justine Blanford, Yosef Bodovski, Guangqing Chi, Annelise Hagedorn*, Edward Jaenicke, Annemarie Kuhns, and Douglas Wrenn. "Accessibility Measures of Community Food Environments and the Healthiness of Home Food Purchases."
53. Hagedorn, Annelise D.*, Donghui Wang*, and Guangqing Chi. "Remittances and Changing Household Spending Strategies: Evidence from the Life in Kyrgyzstan Study, 2011–2013."
54. Kasu, Bishal* and Guangqing Chi. "The Associations of Transportation Infrastructures with Education and Income in the United States, 1970–2010."
55. Zhao, Chen, Tse-Chuan Yang, and Guangqing Chi. "Space Still Matters: A Descriptive Dynamic Analysis of Spatiotemporal Propagation of Tweets."

Encyclopedia Entries

56. Chi, Guangqing. 2014. "Social and Economic Impacts of Highways." In: *Encyclopedia of Transportation: Social Science and Policy*, pp. 756–759, edited by Mark Garrett and J. Geoffrey Golson. Thousand Oaks, CA: SAGE Publications. DOI: 10.4135/9781483346526.n269.
57. Chi, Guangqing. 2014. "Economic Development." In: *Encyclopedia of Transportation: Social Science and Policy*, pp. 454–457, edited by Mark Garrett and J. Geoffrey Golson. Thousand Oaks, CA: SAGE Publications. DOI: 10.4135/9781483346526.n172.
58. Chi, Guangqing. 2007. "Highway Effects on Economic and Population Growth: Regional Economic Explanation." In: *Encyclopedia of Earth*, edited by Cutler J. Cleveland. Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment.

Refereed Conference Proceedings

59. Wang, Donghui*, Annelise D. Hagedorn*, Guangqing Chi, Guljamal Ibraimova, Kamilya Kelgenbaeva, and Geoffrey M. Henebry. 2016. "Agricultural Productions in Kyrgyzstan, 1990–2014." *The International University of Kyrgyzstan Journal* 29(1): 11–16.
60. Li, Chuo, Amir Ghiasi, Xiaopeng Li, and Guangqing Chi. 2016. "Socio-demographic Characteristics Associated with Access to Organic and Local Food." #16–2058. The annual meeting of the Transportation Research Board, January 10–14, 2016, Washington, D.C.
61. Chi, Guangqing and Jamie Boydston*. 2013. "Rising Gasoline Prices and Residential Relocation Closer to Workplaces." #13–1686. The annual meeting of the Transportation Research Board, January 13–17, 2013, Washington, D.C.
62. 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 annual meeting of the Transportation Research Board, January 13–17, 2013, Washington, D.C.
63. Chi, Guangqing, Mohammed A. Qudus, Arthur Huang*, and David Levinson. 2013. "Urban-Rural Difference of Gasoline Price Effects on Traffic Safety." #13–1688. The annual meeting of the Transportation Research Board, January 13–17, 2013, Washington, D.C.
64. Chi, Guangqing and Yanbing Zheng. 2012. "Estimating Transport Footprint along Highways at Local Levels: Combination of Network Analysis and Kriging Methods." #12–0754. The annual meeting of the Transportation Research Board, January 22–26, 2012, Washington, D.C.
65. Chi, Guangqing. 2010. "Land Developability and Population Dynamics: Developing an Index of Land Use and Development for Sustainability Research." #3D7–ICSU10387. The First International Conference on Sustainable Urbanization, December 15–17, 2010, Hong Kong.
66. 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.

Data Products

67. Chi, Guangqing and Derrick Ho*. 2014. "Land Developability in 2011 at the Census Tract Level in the Continental U.S." Released on September 18, 2014.
68. Chi, Guangqing and Derrick Ho*. 2013. "Land Developability: A Measure of the Proportion of Lands Available for Development and Conversion." Available at <http://www.landdevelopability.org>. Released on April 15, 2013.

Book Reviews

69. 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

70. 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>.
71. Chi, Guangqing and Bishal Kasu*. 2016. "Economic and Demographic Impacts of Passenger Rail Systems: The Impact of Intercity Passenger Rails on Population and Employment Change in the United States, 2000–2010." Project Report No. 13-008. National Center for Intermodal Transportation for Economic Competitiveness, U.S. Department of Transportation. <https://trid.trb.org/view.aspx?id=1400761>.
72. 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.
73. Chi, Guangqing. 2014. "South Dakota State Data Center Newsletter, Winter 2014 Issue." Rural Life and State Data Center, Department of Sociology and Rural Studies, South Dakota State University.
74. 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.
75. 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.
76. Chi, Guangqing and Willie Brown. 2014. "Rising Gasoline Prices Lead to the Reduction in Drunk-Driving Crashes." Policy Brief. Public Safety Data Laboratory, Social Science Research Center, Mississippi State University. <http://psdl.ssrc.msstate.edu/wp/wp-content/uploads/GasolinePricesandDrunk-DrivingCrashes.pdf>.

77. 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.
78. 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.
79. Chi, Guangqing. 2010. "Assessing Economic and Demographic Impacts of Intermodal Transportation Systems." Project Report. National Center for Intermodal Transportation, U.S. Department of Transportation.
80. 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>.
81. 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.
82. Chi, Guangqing. 1999. "Identifying and Weighing Environmental Factors in Communities." *Shanghai Property Management* (special issue, *Applying ISO14001 for Environmental Improvement*) 24: 24–25. (in Chinese)
83. Chi, Guangqing. 1999. "Applying the ISO14001 Environmental Management System to Manage Communities: A Case Study of Ching Chu Garden, Shanghai." *Shanghai Property Management* (special issue, *Applying ISO14001 for Environmental Improvement*) 24:18–20. (in Chinese)
84. Wang, Xiangrong and Guangqing Chi. 1999. "Implementing the ISO14001 Environmental Management System to Improve the Ecological Construction of Urban Communities." *Shanghai Property Management* (special issue, *Applying ISO14001 for Environmental Improvement*) 24:10–13, 17. (in Chinese)

RESEARCH GRANTS

Ongoing Research Support

1. PI. "CRISP Type 1/Collaborative Research: Population-Infrastructure Nexus: A Heterogeneous Flow-based Approach for Responding to Disruptions in Interdependent Infrastructure Systems" (Award # 1541136). National Science Foundation. \$500,000. PI at U South Florida: Xiaopeng Li, with co-PI Mengqi Hu of U Illinois at Chicago. Project dates: 1/1/2016–12/31/2018.
2. Co-I. "How Environmental Change in Central Asian Highlands Impacts High Elevation Communities." National Aeronautics and Space Administration. \$969,551 (Award # NNX15AP81G). PI: Geoffrey Henebry. The other co-I: Pavel Groisman. Project dates: 7/1/2015–6/30/2018.

3. Co-I (PI of the Computational and Spatial Analysis Core). "Population Research Institute." National Institute of Child Health and Human Development. \$3,516,815 (Award # P2C HD041025-16). PI: Jennifer Van Hook. The other co-I: Michelle Frisco. Project dates: 9/4/2016–5/31/2021.
4. PI. "Ecological Migration in a Large-Scale Quasi-Experiment Design in China: Implications of Climate Change, Landscape Structure, Ecosystem Services and Government Intervention." PSU Institutes of Energy and the Environment. \$25,000. Co-PIs: Zhen Lei, Erica Smithwick, Brian Thiede, Junjun Yin, Jiquan Chen, and Huanguang Qiu. Project dates: 4/1/2017–6/30/2018.
5. PI. "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." PSU Social Science Research Institute and Institutes of Energy and the Environment. \$50,000. Co-PIs: Mark Feinberg, Jennifer Glick, Erica Smithwick, and Scott Yabiku. Project dates: 7/1/2017–6/30/2019.
6. Co-PI. "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." PSU. \$50,000. PIs: Vasant Honavar and Eugene Lengerich. Other collaborators: Cynthia Chuang, Wenke Hwang, and Susann Schetter. Project dates: 6/1/2017–5/31/2018.
7. Co-PI. "Convergence NNA: Coordinate a Transdisciplinary Research Network to Identify Challenges and Solutions of Permafrost Coastal Erosion and Its Socioecological Impact in the Arctic" (Award # 1745369). National Science Foundation. \$500,000. PI: Ming Xiao. Other co-PIs: Kathleen Halvorsen, Benjamin Jones, and Vladimir Romanovsky. Project dates: 1/1/2018–12/31/2021.
8. Participant. "W4001: Social, Economic and Environmental Causes and Consequences of Demographic Change in Rural America." National Institute of Food and Agriculture, U.S. Department of Agriculture. PI: John Cromartie. Project dates: 10/1/2017–9/30/2022.
9. Co-I. "Neighborhood Effects on Health in Pennsylvania." Pennsylvania Tobacco Settlement Fund. \$107,494. PI: Cynthia Chuang. Other co-Is: eight researchers. Project dates: 6/1/2016–12/31/2017.

Research Grants under Review

10. Co-I. "Penn State Clinical and Translational Science Institute (UL1)." National Institutes of Health. \$117,900. PI: Lawrence Sinoway. Other co-Is: Vasant Honavar, Eugene Lengerich, Cynthia Chuang, and Wenke Hwang. Project dates: 6/1/2017–5/31/2020.

Completed Research Support

11. Co-I. "Aggressive Prostate Cancer in Pennsylvania: Health Disparities and Environmental Risk Factors." PSU Pathway to Partnership Stage I. \$5,000. Co-PIs: Ming Wang and Alicia C. McDonald. The other co-I: Sheldon L. Holder. Project dates: 8/1/2016–2/1/2017.
12. Co-I. "A Household-level Longitudinal Investigation into the Food Environment's Impact on Food Behavior and Health." PSU Social Science Research Institute and Penn State Institutes of Energy and the Environment. \$20,000. PI: Jennifer Van Hook. Other co-Is: Justine Blanford, Edward Jaenicke, and Douglas Wrenn. Project dates: 7/1/2015–6/30/2016.

13. Co-PI. "Population Health Research in the Era of Big Data." PSU Pathway to Partnership Stage I. \$5,000. The other co-PI: Cynthia Chuang. Project dates: 6/1/2015–11/1/2015.
14. PI. "The Economic Demography of Passenger Intermodal Transportation: Opportunities and Challenges." National Center for Intermodal Transportation for Economic Competitiveness, U.S. Department of Transportation. \$199,858 (Award # DTRT12GUTC14-201307). Project dates: 07/1/2013–12/31/2015.
15. PI. "Economic and Demographic Impacts of Passenger Rail Systems: A Scenario Analysis of Restoring the Passenger Rail Corridor between New Orleans and Orlando." National Center for Intermodal Transportation for Economic Competitiveness, U.S. Department of Transportation. \$201,226 (Award # DTRT12GUTC14-201308). Project dates: 05/15/2013–12/31/2015.
16. PI. "School Enrollment Projections." South Dakota Rapid City School District. \$11,500. Project dates: 11/1/2014–2/28/2015. [Contract]
17. Co-PI. "Developing a Baseline Homeownership for the South Dakota Native Homeownership Coalition." The Lakota Funds. \$20,571. Project dates: 01/01/2015–5/31/2015. [Declined]
18. Co-PI. "Mississippi Highway Patrol Data and Analysis Program: Year Six." National Highway Traffic Safety Administration, Mississippi Highway Patrol, and Mississippi Department of Public Safety. \$238,811 (Award # 14-MC-401-1). PI: Tonya Thornton-Neaves. Project dates: 10/01/2013–09/30/2014.
19. Co-PI. "Big Data Analysis in Transportation and Sociology." Office of Research and Economic Development, Mississippi State University. \$2,000. PI: Xiaopeng Li. Other co-PIs: Linkan Bian and Li Zhang. Project dates: 8/16/2013–8/15/2014.
20. PI. "Passenger Usages of the Intermodal Transportation System: An Analysis of the 2009 National Household Travel Survey Data." National Center for Intermodal Transportation for Economic Competitiveness, U.S. Department of Transportation. \$65,459 (Award # DTRT12GUTC14-12050543). Project dates: 07/01/2012–08/15/2013.
21. Faculty Affiliate. "National Center for Intermodal Transportation and Economic Competitiveness." Mississippi State University, University of Denver, Hampton University, Louisiana State University, and University of Mississippi. U.S. Department of Transportation, University Transportation Center Program. \$3,500,000. PI: Burak Eksioglu. Project dates: 2012–2014.
22. Co-PI. "Mississippi Highway Patrol Data and Analysis Program: Year Five." National Highway Traffic Safety Administration, Mississippi Highway Patrol, and Mississippi Department of Public Safety. \$194,557 (Award # 13-K9-401-1). PI: Tonya Thornton-Neaves. Other co-PI: Arthur G. Cosby. Project dates: 10/01/2012–09/30/2013.
23. Co-PI. "Infrastructure and Livable Community." Office of Research and Economic Development, Mississippi State University. \$2,000. PI: Xiaopeng Li. Other co-PI: Chuo Li. Project dates: 8/16/2012–8/15/2013.

24. Research Scientist. "Mississippi Highway Patrol Data and Analysis Program: Year Four." National Highway Traffic Safety Administration, Mississippi Highway Patrol, and Mississippi Department of Public Safety. \$270,466. PI: Arthur G. Cosby (Award # 12-K9-401-1). Project dates: 10/01/2011–09/30/2012.
25. PI. "Social and Spatial Implications of Gasoline Price Changes on Commuting Behaviors." Henry Family Research Fund, College of Arts and Sciences, Mississippi State University. \$5,000. Project dates: 06/01/2011–05/31/2012.
26. Research Scientist. "Mississippi Highway Patrol Data and Analysis Program: Year Three." National Highway Traffic Safety Administration, Mississippi Highway Patrol, and Mississippi Department of Public Safety. \$277,225 (Award # 11-K9-401-1). PI: Arthur G. Cosby. Project dates: 10/01/2010–09/30/2011.
27. PI. "Assessing Economic and Demographic Impacts of Intermodal Transportation Systems." National Center for Intermodal Transportation, U.S. Department of Transportation. \$44,112 (Award # 363010100-07070609-09090917). Project dates: 08/16/2009–08/15/2010.
28. Research Scientist. "Mississippi Highway Patrol Data and Analysis Program: Year Two." National Highway Traffic Safety Administration, Mississippi Highway Patrol, and Mississippi Department of Public Safety. \$392,160 (Award # 10-K9-401-1). PI: Arthur G. Cosby; Co-PI: Angela Robertson. Project dates: 10/01/2009–09/30/2010.
29. Co-PI. "Modeling Economic Benefits of Resilience Enhancement Strategies for Intermodal Transportation Systems." National Center for Intermodal Transportation, U.S. Department of Transportation. \$57,519 (Award # 363010100-009067-018). PI: Li Zhang; Other co-PI: Mingzhou Jin. Project dates: 07/01/2009–06/30/2010.
30. Research Scientist. "Mississippi Highway Patrol Data and Analysis Program: Year One." National Highway Traffic Safety Administration, Mississippi Highway Patrol, and Mississippi Department of Public Safety. \$516,632 (Award # 09-K9-401-1). PI: Arthur G. Cosby; Co-PI: Angela Robertson. Project dates: 10/01/2008–09/30/2009.

PRESENTATIONS

Invited Presentations

1. "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." July 13, 2017. International University of Kyrgyzstan, Bishkek, the Kyrgyz Republic.
2. "Environmental Migration." June 19, 2017. College of Pastoral Agriculture Science and Technology, Lanzhou University.
3. "Ecological Migration in Rural Drylands of Central and East Asia within a Coupled Community and Pasture System Framework: The Implications of Climate Change, Demographic Dynamics, Globalization, and Geopolitics." June 2, 2017. Workshop on "Coupled Human Nature System in Mongolian Plateau" (NSF) and "Urbanization and Sustainability under Global Change and Transitional Economies in Southeast, East, and North Asia (SENA)" (NASA). Ulaanbaatar, Mongolia.

4. "Spatial and Computational Analysis for Social Science Research in the Era of Big Data." December 14, 2016. The Taste of Methodology Training Workshop, the Methodology Center, The Pennsylvania State University.
5. "Environmental Demography: The Power of Computational and Spatial Analysis for Population Research in the Era of Big Data." November 4, 2016. The Stochastic Modeling and Computational Statistics seminar series, Department of Statistics, The Pennsylvania State University.
6. "Spatial Variation in Amenity-Driven Rural Development: Implications of Economic Climate, Transportation Infrastructure, and Land Use." October 28, 2016. School of Agricultural Economics and Rural Development, Renmin University of China, Beijing, China.
7. "Environmental Demography: The Power of Computational and Spatial Analysis for Population Research in the Era of Big Data." October 20, 2016. The Center for Urban Future Research and the Geosoft Laboratory of the Institute for Remote Sensing and Geographic Information Systems, Peking University, Beijing, China.
8. "Amenity-Driven Rural Development: Implications of Economic Climate, Transportation Infrastructure, and Land Use." October 14, 2016. Agricultural Economic Management Research Center, Ocean University of China, Qingdao, China.
9. "Spatial Variation in Amenity-Driven Rural Development: Implications of Economic Climate, Transportation Infrastructure, and Land Use." October 12, 2016. Department of Land Resources and Tourism Sciences, Nanjing University, Nanjing, China.
10. "Environmental Demography: The Power of Computational and Spatial Analysis for Social Science Research in the Era of Big Data." October 10, 2016. School of Social Development, East China Normal University, Shanghai, China.
11. "Amenity-Driven Rural Development: Implications of Economic Climate, Transportation Infrastructure, and Land Use." October 8, 2016. School of Ecology and Environmental Sciences, East China Normal University, Shanghai, China.
12. "Spatial Data Analysis Methods." August 7, 2016. The Innovative Methods Workshop, the annual meeting of the Rural Sociological Society, Toronto, CA.
13. "Sociodemographic Resilience of High Elevation Communities: Migration, Climate Change, and Geopolitics in the Kyrgyz Republic." July 21, 2016. University of Central Asia, Bishkek, the Kyrgyz Republic.
14. "Spatial Data Analysis Methods." June 17, 2016. The Gender Research and Integrated Training Workshop, The Pennsylvania State University.
15. "Environmental Demography and Spatial Analysis for Population Health Research." May 5, 2016. The Public Health Sciences Seminar, The Pennsylvania State School of Medicine.
16. "Spatial Analysis for Population Health Research." April 19, 2016. The Biostatistics, Epidemiology and Research Design (BERD) Group Seminar Series, the Clinical and Translational Science Institute, The Pennsylvania State University.
17. "Rural Development." Office of Executive Leadership Education, Temple University, March 3, 2016, Philadelphia, PA.
18. "Environmental Demography: The Power of Computational and Spatial Analysis in the Era of Big Data." February 18, 2016. The Methodology Center Brown Bag Seminar, The Pennsylvania State University.
19. "Social and Spatial Implications of Gasoline Price Increases." November 20, 2015. The Rural Sociology Brown Bag Series, Department of Agricultural Economics, Sociology, and Education, The Pennsylvania State University.
20. "Social and Spatial Implications of Gasoline Price Increases." November 16, 2015. The Changing American Neighborhoods and Communities Working Group, The Pennsylvania State University.

21. "Population-Infrastructure Nexus: A Heterogeneous Flow-based Approach for Responding to Disruptions in Interdependent Infrastructure Systems." With Xiaopeng Li and Mengqi Hu. October 22, 2015. National Workshop on Resilience Research (NWRR) for Critical Infrastructure: Current Status and Challenges, the National Science Foundation.
22. "Environmental Demography and Computational and Spatial Analysis." October 19, 2015. Quantitative Developmental Systems Methodology, The Pennsylvania State University.
23. "Patient Centered Research: The Power of GIS in the Era of Big Data." October 16, 2015. Hershey School of Medicine, The Pennsylvania State University.
24. "Population-Centered Big Data Research." September 30, 2015. Big Data Social Science IGERT program, The Pennsylvania State University.
25. "Amenity-Driven Development." December 1, 2014. The Geospatial Sciences Center for Excellent, South Dakota State University.
26. "Spatial Variation in Amenity-Driven Rural Development: Implications of Economic Climate, Transportation Infrastructure, and Land Use." September 29, 2014. The Department of Agricultural Economics, Sociology, and Education, the Population Research Institute, and the Social Science Research Institute at the Pennsylvania State University.
27. "An Integrated Population-Environment Framework." September 18, 2014. Department of Geography at South Dakota State University.
28. "Social and Spatial Implications of Gasoline Price Increases." August 27, 2014. E.A. Martin Program in Human Nutrition at South Dakota State University.
29. "Social and Spatial Implications of Gasoline Price Increases." March 18, 2014. Department of Geography at the University of Toronto Mississauga.
30. "Social and Spatial Implications of Gasoline Price Increases." February 16, 2014. Department of Sociology and Anthropology at the University of Texas at El Paso.
31. "South Dakota State Data Center." February 10, 2014. Department of Sociology and Rural Studies at the South Dakota State University.
32. "History of Transportation." June 5, 2013. Mississippi Intermodal Transportation Workshop for K-12 Teachers, Starkville, MS.
33. "Social and Spatial Implications of Gasoline Price Increases." March 13, 2013. The Center for the Study of Social Justice, the Department of Sociology, and the Department of Geography at the University of Tennessee-Knoxville.
34. "Transportation Impacts on Population Change along the Urban-Rural Continuum." November 21, 2011. Department of Geography at the University of Utah.
35. "Remote Rural Migration, Amenity-Driven Development, and Small Town Demographic Change: A Spatially-Explicit Lake States Assessment." June 9, 2011. Presidential Symposium (with David W. Marcouiller) to the annual meeting of the Mid-Continent Regional Science Association, Detroit, MI.
36. "The Impacts of Highway Expansion on Population Change: A Spatial Demographic View." November 6, 2009. Transportation Working Group and National Center for Intermodal Transportation Seminar Series, College of Engineering, Mississippi State University.
37. "An Integrated Spatial Approach for Examining Population-Environment Interactions: The Impact of Highway Expansion on Population Change." November 12, 2007. Department of Sociology, Anthropology, and Social Work at Mississippi State University.
38. "Small-Area Population Forecasting: Building upon a Systematic Spatio-Temporal Population Model." February 26, 2007. Department of Geography and the Environmental Science and Policy Program, Michigan State University.
39. "Small-Area Population Forecasting and Spatio-Temporal Modeling: Demographics, Livability, Accessibility, Desirability, and Developability." December 7, 2006. Department of Geography, the State University of New York at Buffalo.

40. "Small-Area Population Forecasting and Spatio-Temporal Modeling: Demographics, Accessibility, Developability, Desirability, and Livability." June 7, 2006. The Social Science Research Center at Mississippi State University.
41. "A Spatio-Temporal Population Change Model: Demographics, Accessibility, Developability, Desirability, and Livability." April 20, 2006. The Spatial Information and Analysis Consortium Seminars of University of Wisconsin-Madison.
42. "The Application of Spatial-Temporal Regression Analysis to Small-Area Population Forecasting." April 15, 2005. The Spatial Information and Analysis Consortium Seminars of University of Wisconsin-Madison.
43. "An Examination of the Causality between Highway Expansion and Population Change." April 16, 2004. Urban Transportation Center Seminar Series, University of Illinois-Chicago.

Conference Presentations (in the past three years)

44. Scott, Christian*, Annelise Hagedorn*, and Guangqing Chi. 2017. "Mountainous Cultivation: Food, Land, and Agricultural Practices in Rural Kyrgyzstan." Presented at the annual meeting of the Rural Sociology Society, July 27–30, 2017, Columbus, OH.
45. Kasu, Bishal* and Guangqing Chi. 2017. "Transportation Infrastructures and Socioeconomic Statuses: A Spatial Regression Analysis at the County Level in the United States, 1970–2010." Presented at the annual meeting of the Rural Sociology Society, July 27–30, 2017, Columbus, OH.
46. Chi, Guangqing and Donghui Wang*. 2017. "Who Is Predictable? Evaluating the Associations of Population Projection Accuracy with Sociodemographics, Accessibility, Land Use, Neighbor Characteristics, and Their Spatial Variations." Presented at the annual meeting of the Population Association of America, April 27–29, 2017, Chicago, IL.
47. Hagedorn, Annelise D.*, Donghui Wang*, and Guangqing Chi. 2017. "Remittances and Livelihoods in the Kyrgyz Republic in the Post-Soviet Union Era: Evidence from the Life in Kyrgyzstan Survey, 2011–2013." Presented at the annual meeting of the Population Association of America, April 27–29, 2017, Chicago, IL.
48. Kasu, Bishal* and Guangqing Chi. 2017. "Impacts of Transport Infrastructures on Population and Employment Change in the United States, 1970–2010." Presented at the annual meeting of the Population Association of America, April 27–29, 2017, Chicago, IL.
49. Huang, Xuetao* and Guangqing Chi. 2017. "Residential Mobility in the Post-Great Recession of Los Angeles: Sociodemographic Variations." Presented at the annual meeting of the Population Association of America, April 27–29, 2017, Chicago, IL.
50. Wang, Wei-Lin*, Junjun Yin, and Guangqing Chi. 2017. "Who Are You? Estimating Demographics of Twitter Users." Presented at the annual meeting of the Population Association of America, April 27–29, 2017, Chicago, IL.
51. Scott, Christian*, Guangqing Chi, Annelise Hagedorn*, and Donghui Wang*. 2016. "The Role of Agriculture and Social Connectedness in Household Food Security within Rural Kyrgyzstan." Presented at the Penn State's 4th Annual Rural Studies Student Conference. October 28–29, 2016, University Park, Pennsylvania.
52. Chi, Guangqing, Christian Scott*, Annelise D. Hagedorn*, Donghui Wang*, and Geoffrey M. Henebry. 2016. "Sociodemographic Resilience of High-Elevation Communities: Geopolitics, Remittances, and Climate Change in Kyrgyzstan, 1991–2015." Presented at the Global Land Programme 3rd Open Science Meeting, October 24–27, 2016, Beijing, China.
53. Hagedorn, Annelise D.*, Donghui Wang*, and Guangqing Chi. 2016. "Remittance Receipt and Household Spending in Kyrgyzstan." Presented at the XIV World Congress of Rural Sociology, August 10–14, 2016, Toronto, Canada.

54. Chi, Guangqing, Annelise D. Hagedorn*, Donghui Wang*, Kamilya Kelgenbaeva, and Geoffrey M. Henebry. 2016. "Agricultural Production in the Post-Soviet Kyrgyzstan: The Implications of Land Use, Sociodemographic Changes, and Economic Development." Presented at the annual meeting of the Rural Sociology Society, August 7–10, 2016, Toronto, Canada.
55. Chi, Guangqing. 2016. "Natural Amenities and Rural Development: Implications of Spatial Variation, Economic Climate, Transportation Infrastructure, and Land Use." Presented at the annual meeting of the International Symposium on Society and Resource Management, June 22–26, 2016, Houghton, MI.
56. Chi, Guangqing, Annelise D. Hagedorn*, Donghui Wang*, Kamilya Kelgenbaeva, and Geoffrey M. Henebry. 2016. "Agricultural Production in the Kyrgyz Republic in the Post-Soviet Union Era: The Implication of Demographic Changes." Presented at the International Scientific-Practical Conference on Challenges in Adaptation of Central Asian Mountain Regions to Global Changes, April 6–April 9, 2016, Bishkek, The Kyrgyz Republic.
57. Chi, Guangqing and Donghui Wang*. 2016. "Small-Area Population Forecasting: A Geographically Weighted Regression Approach." Presented at the annual meeting of Population Association of America, March 31–April 2, 2016, Washington, D.C.
58. Li, Chuo, Amir Ghiasi, Xiaopeng Li, and Guangqing Chi. 2016. "Socio-demographic Characteristics Associated with Access to Organic and Local Food." Presented at the annual meeting of the Transportation Research Board, January 10–14, 2016, Washington, D.C.
59. Chi, Guangqing. 2015. "Spatial Variation in Amenity-Driven Rural Development: Implications of Economic Climate, Transportation Infrastructure, and Land Use." Presented at the annual meeting of the Rural Sociology Society, August 6–9, 2015, Madison, WI.
60. Kasu, Bishal* and Guangqing Chi. 2015. "The Impact of Passenger Rails on Population and Employment Change in the United States, 2000-2010." Presented at the annual meeting of the Rural Sociology Society, August 6–9, 2015, Madison, WI.
61. Chi, Guangqing and Donghui Wang*. 2015. "Building a Spatial Regression Model for Population Forecasting." Presented at the 8th International Conference on Population Geographies, June 30–July 3, 2015, Brisbane, Australia.
62. Chi, Guangqing and Jamie Boydston*. 2015. "Gasoline Price Changes and Residential Relocation: Evidence from the American Housing Survey, 1996-2008." Presented at the 8th International Conference on Population Geographies, June 30–July 3, 2015, Brisbane, Australia.
63. Ghiasi, Amir, Chuo Li, Xiaopeng Li, and Guangqing Chi. 2015. "Socio-Demographic Characteristics Associated with the Location of Organic and Local Food." Presented at the SDITE Annual Meeting, April 19–22, 2015, Biloxi, MS.

TEACHING AND SUPERVISING

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

Courses Taught at PSU

CED 410 Population and Environment. Spring 2017.
RSOC 597 Spatial Analysis of Social Data. Spring 2016.

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

Donghui Wang, Rural Sociology and Demography, PSU, PhD in progress (co-advised with Leif Jensen)
Christian Scott, Rural Sociology and International Agriculture and Development, PSU, PhD in progress
Shuai Zhou, Rural Sociology and Demography, PSU, MS in progress
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 (Assistant Professor, Troy U)

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

Wei-Lin Wang, Rural Sociology and Demography, PSU, PhD in progress
Yunmei Lu, Sociology, PSU, PhD in progress
Abou Traore, Rural Sociology, PSU, PhD in progress
Bo Bian, Economics, PSU, PhD in progress
Richard Bankoff, Bioethics and Anthropology, PSU, PhD in progress
Qiong Zhu, Higher Education, PhD in progress
Boning Zhang, Petroleum and Natural Gas Engineering, PSU, MS in progress
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 (External Examiner)
Andrew Gladfelter, Criminology, PSU, PhD 2016
Danya Kim, Urban and Regional Planning, U of Wisconsin-Madison, PhD 2016
Jamie Boydston, Sociology, MSU, PhD 2014 (Assistant Professor, U Louisiana)
Onyumbé E. Lukongo, Finance and Economics, MSU, PhD 2014 (Assistant Professor, Southern U and A&M College)
Li Zheng, Sociology, MSU, PhD 2013 (Assistant Professor, Sichuan U)
Philip Mason, Sociology, MSU, PhD 2012 (Assistant Professor, U of South Carolina-Aiken)
Kaustav Misra, Finance and Economics, MSU, PhD 2010 (Assistant Professor, Saginaw Valley State U)
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

Annelise DeJong Hagedorn (PSU GRA 2015–)
Donghui Wang (PSU GRA 2015–)
Christian Scott (PSU GRA 2016–)
Shuai Zhou (PSU GRA 2017–)
Wei-Lin Wang (PSU GRA 2016–2017)
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)

PROFESSIONAL AFFILIATIONS

Population Association of America, Association of American Geographers, Regional Science Association International, Southern Demographic Association, Rural Sociology Society

PROFESSIONAL SERVICE

Disciplinary Service

Deputy Editor, *Demography* 2016–2019

Editorial Board member, *Spatial Demography* 2012–present

Grant panelist/reviewer for

NIH Special Emphasis Panel 01 ZAG1 ZIJ-5 (2017)
NIH Special Emphasis Panel ZRG1 PSE-C 04 (2016)
NASA Postdoctoral Program (2016)
NSF Engineering Research Centers program (2015)
NIH Social Science and Population Studies B (2015)
NSF Methodology, Measurement, and Statistics program (2014)
NSF Geography and Spatial Sciences program (2013)

Review project reports for

USDA Forest Service (2013)

Review manuscripts for journals

(The cumulative number of manuscripts reviewed is in parenthesis)

American Journal of Agricultural Economics (1); *American Journal of Public Health* (4); *American Journal of Preventive Medicine* (1); *Annals of Operations Research* (1); *Annals of Regional Science* (2); *Applied Ecology and Environmental Research* (1); *Applied Spatial Analysis and Policy* (1); *BMC Public Health* (2); *Bulletin of Geography, Socio-economic Series* (1); *Computers, Environment and Urban Systems* (3); *Demographic Research* (9); *Demography* (2); *Ecological Economics* (2); *Ecological Processes* (1); *Environment and Planning A* (2); *Environmental Monitoring and Assessment* (3); *Geographical Analysis* (2); *Growth and Change* (2); *International Journal of Digital Earth* (2); *International Journal of Geographical Information Science* (8); *Jahrbuch für Regionalwissenschaft (Review of Regional Research)* (1); *Journal of Environmental Planning and Management* (2); *Journal*

of Geographical Systems (1); *Journal of Maps* (2); *Journal of Regional Analysis and Policy* (3); *Journal of Transport and Land Use* (11); *Journal of Urban Technology* (1); *Land* (2); *Mathematical Population Studies: An International Journal of Mathematical Demography* (2); *Papers in Regional Science* (2); *Population and Environment* (1); *Population Research and Policy Review* (6); *Preventive Medicine* (6); *Review of Regional Studies* (1); *Regional Studies* (1); *Rural Sociology* (7); *Social Forces* (14); *Social Science and Medicine* (1); *Social Science Research* (2); *Spatial Demography* (3); *Scientific Reports* (1); *Sustainability* (1); *The Rangeland Journal* (2); *Theory, Culture & Society* (3); *Transport Policy* (1); *Transportation Research Part A: Policy and Practice* (3); *Transportation Research Record* (8); *Urban Studies* (1)

Article Editor, *SAGE Open* 2014

Review books for publishers
Routledge

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
Organizer, Sessions "Linking Spatial and Population Data I: Environmental Demography", "Linking Spatial and Population Data II: Climate Change and Health", "Linking Spatial and Population Data III: Climate Change and Population Change", 2017
Chair, Session "Linking Spatial and Population Data I: Environmental Demography", 2017
Discussant, Session "Estimation and Projection Methods," 2017
Discussant, Session "Innovative Spatial and Network Measures in Demography," 2010

Rural Sociology Society

Panelist, Innovative Methods Workshop, 2016
Session Chair, "Dynamics of Space and Time: Place Dynamics, Amenities, and Temporality," 2009

Southern Demographic Association

Member, Walter E. Terrie Award Committee, 2008–2009, 2009–2010, 2011–2012
Session Chair, "Racial and Ethnic Minorities," 2008

Other Professional Associations

2016, Session Chair, Session "Development, Resilience, and Livelihoods," International Symposium on Society and Resource Management
2016, Panelist, Session "Academic Careers," International Symposium on Society and Resource Management
2016, Roundtable co-leader, Doing Interdisciplinary Work in a Disciplinary World, Interdisciplinary Association for Population Health Science
2015, Session Chair, Session "Population Projections 2: Households and Housing," International Conference on Population Geographies
2014, Reviewer, Distinguished Master's Thesis, Midwestern Association of Graduate Schools
2011, Discussant for conference sessions, North American Regional Science Council
2009, Discussant for conference sessions, North American Regional Science Council

2007, Judge, student paper competitions for Session "Remote Sensing, Cartography and GIS,"
American Association of Geographers
2004, Discussant for conference sessions, Mid-Continent Regional Science Association

University Service

Pennsylvania State University

Member, Steering Committee, Social Science Research Institute, 2017–
Member, Coordinating Committee, Institute for CyberScience, 2017–
Member, The Scientific Advisory Committee for the Community Sciences and Health Outcomes
Shared Resources, Penn State Cancer Institute, 2016–2018
Co-Organizer, the Innovative Methods Working Group, Population Research Institute, 2016–
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–
At-Large Representative, Internal Advisory Board, Population Research Institute, 2016–2017
Facilitator, PSU Pathway to Partnerships P3 Networking on Environmental Factors in Disease, 2016
Member, Research Scientist (social networks and complex systems) Search Committee, Population
Research Institute, 2015
Proposal Reviewer, Bridges to Translation, the Clinical and Translational Science Institute, 2015

South Dakota State University

Ad Hoc Member, Multidisciplinary Centers Committee, SDSU, 2014–2015

Mississippi State University

Robert Holland Faculty Senate, MSU, 2014
Organizer, Big Data Week, MSU, 2014
Judge, student paper competitions
2011, Behavior and Social Sciences session, Mississippi Region V Science Fair, MSU
2011, Transportation, Supply Chain and Logistics Management Workshop, Deep South INFORMS
Regional Chapter and the MSU Transportation Working Group
2010, the 2nd Annual Transportation Workshop, MSU

University of Wisconsin-Madison

Delegate of the Wisconsin Chinese Alumni Association to the annual meeting of Multi-State Working
Group on Environmental Performance, 2005, Grand Rapids, MI
Coordinator, UW Chinese Alumni Association Lecture Series, University of Wisconsin-Madison,
2003–2004

College Service

PSU College of Agricultural Sciences

Member, Research Computing Community of Practice Group, 2016
Judge for Posters, Life Science Symposium, 2017

MSU College of Arts and Sciences

Reviewer, Henry Family Research Fund, 2012–2013, 2013–2014

Departmental Service

PSU Department of Agricultural Economics, Sociology, and Education

Member, Promotion and Tenure Committee, 2016–2017, 2017–2020

Member, Faculty Search Committee (Food, Energy, and Environmental Economics), 2017–2018
Member, Faculty Search Committee (Food, Health, and Agricultural Policy), 2017–2018
Member, ME John Seminars and Rural Sociology Brownbag Series Committee, 2017–2018
Member, Honors and Awards Committee, 2015–2016, 2016–2017
Member, Rural Sociology Graduate Program Committee, 2015–2016
Member, Search Committee Faculty (Community), 2015–2016

SDSU Department of Sociology and Rural Studies

Member, Promotion and Tenure Committee, 2014–2015
Member, Faculty Search Committee (Environmental Sociology and Population), 2014–2015
Member, Graduate Program Committee, 2014–2015
Member, Graduate Planning Committee, 2014–2015

MSU Department of Sociology

Coordinator, Computational and Spatial Analysis Laboratory, 2009–2014
Chair, Rural Sociology and Community Preliminary Examination Committee, 2009–2010, 2010–2011, 2011–2012, 2012–2013, 2013–2014
Member, Demography Preliminary Examination Committee, 2010–2011, 2013–2014
Member, Stratification Preliminary Examination Committee, 2008–2009
Member, Faculty Search Committee, 2013–2014
Member, Junior Faculty Representative to Advisory Board, 2011–2012
Member, Faculty Search Committee, 2010–2011
Member, Social Demography and Race Inequality Faculty Search Committee, 2008–2009
Member, Graduate Policy and Curriculum Committee, 2009–2010, 2012–2013
Member, Sociology Qualifying Examination Committee, 2008–2009, 2009–2010, 2010–2011
Member, Sociology MS Exit Examination Subcommittee, 2008–2009, 2009–2010
Member, Ad Hoc Committee on Awards and Recognition, 2012–2013, 2013–2014
Member, Ad Hoc Committee on Technology and Website, 2012–2013

Interviews and Media Appearances (selected from over 2,000 media appearances)

December 1, 2015 – *Kiplinger's Personal Finance*: “The downside of cheaper gas” by Dandan Zou on p. 18, December issue. <http://www.kiplinger.com/article/insurance/T004-C000-S002-the-downside-of-cheaper-gas.html>
February 15, 2015 – *WDAZ 8 Television ABC*: “Study links price of gas to number of road accidents” <http://www.wdaz.com/news/3685158-study-links-price-gas-number-road-accidents>
February 10, 2015 – *Claims Journal*: “Cheaper Gas Leads to More Car Crashes” <http://www.claimsjournal.com/news/national/2015/02/19/261878.htm>
February 15, 2015 – *Star Tribune*: “The Drive: Rising gas prices might make us safer” <http://www.startribune.com/local/292019741.html>
February 7, 2015 – *KSFY ABC* (TV interview): “Study shows low gas prices lead to more vehicle crashes” <http://www.ksfy.com/home/headlines/Study-shows-low-gas-prices-lead-to-more-vehicle-crashes-291158461.html>
January 29, 2015 – *VOAnews* (TV interview): “Falling gasoline prices have downsides” <http://www.voanews.com/media/video/2619781.html>
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AREAS OF INTERESTS

Demography: environmental demography, spatial demography, applied demography, population change, migration and population redistribution, and population estimation and forecasting;

Smart cities and resilient interdependent infrastructure systems: population-infrastructure dynamics, transportation and population change, neighborhood built environment and population health, and gasoline prices and traffic safety;

Climate change: population-environment dynamics, natural resources and rural development, land use and population change, left-behind children, and community resilience and vulnerability;

Quantitative methods: spatial statistics, spatial analysis and GIS, and Big Data

AWARDS AND HONORS

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

Travel Fellowship (2008), Environmental Demography Workshop, University of Colorado-Boulder

E. Walter Terrie Best Paper Award in Applied Demography (2007), Southern Demographic Association

Student Paper Award (2006), Spatial Information and Analysis Consortium (SIAC), University of Wisconsin-Madison

Vilas Travel Fellowship (2006), Graduate Student Collaborative, University of Wisconsin-Madison

Student Paper Award (2005), University Consortium for Geographic Information Science (UCGIS)

Summer Assembly, Jackson Hole, WY

Merit Staff (1999), Ching Chu Property Management Co. Ltd., Shanghai, China

REFERENCES

Available upon request.