

**Tse-Chuan Yang**  
***Curriculum Vitae***  
 June 2020

**CONTACT INFORMATION**

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**EDUCATION**

Ph.D. *The Pennsylvania State University, USA.*  
 Demography and Rural Sociology (dual-title, minor: Statistics), 2008.

M.A. *National Taiwan University, Taiwan.*  
 Social Development and Policy. 2003.

B.S. *National Taiwan University, Taiwan.*  
 Rural Sociology, 2001.

**PROFESSIONAL POSITIONS**

2017-present Associate Professor, Department of Sociology, University at Albany, State University of New York

2013-2017 Assistant Professor, Department of Sociology, University at Albany, State University of New York

2010-2013 Director of the Geographic Information Analysis (GIA) Core, Population Research Institute, Social Science Research Institute, The Pennsylvania State University

2008-2013 Research Associate in Spatial Social Sciences, Population Research Institute, Social Science Research Institute, The Pennsylvania State University

**RESEARCH INTERESTS**

Substantive: Demography of health and mortality, medical sociology, health disparities, health care system distrust, social and built environmental and behavioral determinants of health outcomes.

Methods: Spatial statistics (spatial econometrics and geostatistics), geographic information systems (GIS), and quantitative research methods.

## PUBLICATIONS

(\*indicates student when publishing the manuscript; † indicates affiliation with Albany)

### Refereed Journal Articles:

- In Press Carla Shoff, Tse-Chuan Yang, and Seulki Kim\*. “Rural/Urban differences in the predictors of opioid prescribing rates among Medicare Part D beneficiaries 65 years of age and older” Journal of Rural Health [PMCID: In Progress]†
- In Press Tse-Chuan Yang and Scott J. South. “Neighborhood poverty and physical health at midlife: The role of life-course exposure.” Journal of Urban Health [PMCID: In Progress]†
- In Press Tse-Chuan Yang, Seulki Kim\*, and Carla Shoff. “Income inequality and opioid prescribing rates: Exploring rural/urban differences in pathways via residential stability and social isolation.” Rural Sociology [PMCID: In Progress]†
- In Press Tse-Chuan Yang, Kiwoong Park, and Stephen A. Matthews. “Racial/ethnic segregation and health disparities: Future directions and opportunities.” Sociology Compass [PMCID: In Progress] †
- In Press Vivian Yi-Ju Chen, Tse-Chuan Yang, and Stephen A. Matthews. “Exploring heterogeneities with geographically weighted quantile regression: An enhancement based on the bootstrap approach.” Geographical Analysis †
- In Press Seulki Kim\*, Carla Shoff, and Tse-Chuan Yang. “Spatial non-stationarity in opioid prescribing rates: Evidence from older Medicare Part D beneficiaries.” Population Research and Policy Review †
- In Press Weihui Zhang\* and Tse-Chuan Yang. “Maternal smoking and infant low birth weight: Exploring the biological mechanism through the mother’s pre-pregnancy weight status.” Population Research and Policy Review †
- 2020 Joseph Gibbons, Tse-Chuan Yang, Elizabeth Brault\*, and Michael S. Barton. “Evaluating residential segregation's relation to the clustering of poor health across American Cities.” International Journal of Environmental Research and Public Health 17(11): 3910 †
- 2020 Sylwia J. Piatkowska, Andreas Hövermann, and Tse-Chuan Yang. “Immigration influx as a trigger for right-wing crime: A temporal analysis of hate crimes in Germany in the light of the ‘refugee crisis’” British Journal of Criminology 60(3): 620-641†
- 2019 Yunhan Zhao\*, Tse-Chuan Yang, and Steven F. Messner. “Neighborhood segregation and racial disparities in post-stop outcomes: Insights from New York City.” Journal of Crime and Justice 42(4): 365-381†
- 2019 Tse-Chuan Yang, I-Chien Chen, Seung-won Choi\*, and Aysenur Kurtulus\*. “Linking perceived discrimination during adolescence to health during mid-adulthood: Self-esteem and risk-behavior mechanisms” Social Science & Medicine

232: 434-443 [PMCID: In Progress]†

Commentary: “Necessary consideration for a life course perspective on discrimination and health” by Laura S. Richman and Michelle Stock.  
<https://doi.org/10.1016/j.socscimed.2018.08.005>

Commentary: “Considering social processes when examining mediators of the effects of discrimination on health” by Elizabeth Brondolo.  
<https://doi.org/10.1016/j.socscimed.2018.08.004>

- 2019 Sylwia J. Piatkowska, Steven F. Messner, and Tse-Chuan Yang. “Understanding the relationship between relative group size and hate crime rates: Linking methods with concepts” Justice Quarterly 36(6): 1072-1095†
- 2019 Tse-Chuan Yang and Kiwoong Park\*. “Racial/ethnic disparities in depression: Investigating how sources of support and types of integration matter” Social Science Research 82: 59-71 [PMCID: In Progress] †
- 2019 Guangqing Chi, Derrick Shapley, Tse-Chuan Yang, and Donghui Wang\*. “Lost in the Black Belt South: Health outcomes and transportation infrastructure.” Environmental Monitoring and Assessment 191(Suppl 2): 297-313 [PMCID: In Progress] †
- 2019 Tse-Chuan Yang, Stephen A. Matthews, Feinuo Sun\*, and Marina Armendariz\*. “Modeling the relative importance of within and between county effects in an ecological study of the association between social capital and mental distress.” Preventing Chronic Disease 16: 180491 [PMCID: PMC6583813] †
- 2019 Tse-Chuan Yang and Feinuo Sun\*. “A longitudinal analysis of how perceived discrimination gets under the skin: Investigating gender and racial/ethnic differences” EurAmerica 49(2): 243-285†
- 2019 Nina Verevkina, Pamela Short, Tse-Chuan Yang, Stephen A. Matthews, and Roger Anderson. “Analyzing hospital choices of colon cancer patients in four states in Appalachia.” Journal of Health Care for the Poor and Underserved 30(2): 587-608 [PMCID: In Progress] †
- 2018 Seung-won Choi\*, Aggie J. Noah, and Tse-Chuan Yang. “Family policies and working women’s fertility intentions in South Korea.” Asian Population Studies 14(3): 251-270 †
- 2018 Tse-Chuan Yang and Scott J. South. “Neighborhood effects on body mass: Temporal and spatial dimensions.” Social Science & Medicine 217: 45-54 [PMCID: PMC6207931] †
- 2018 Tse-Chuan Yang, Lei Lei, and Aysenur Kurtulus\*. “Neighborhood ethnic density and self-rated health: Investigating the mechanisms through social capital and health behaviors.” Health & Place 53: 193-202 [PMCID: PMC6172945] †
- 2018 Sylwia J. Piatkowska, Steven F. Messner, and Tse-Chuan Yang. “Xenophobic and

- racially motivated crime in Belgium: Exploratory spatial data analysis and spatial regressions of structural covariates.” Deviant Behavior 39(11): 1398-1418†
- 2018 Aggie J. Noah, Tse-Chuan Yang, and Wei-Lin Wang\*. “The black-white disparity in sexually transmitted diseases during pregnancy: How do racial segregation and income inequality matter?” Sexually Transmitted Diseases 45(5): 301-306 [PMCID: PMC5895497]†
- 2018 Tse-Chuan Yang, I-Chien Chen\*, Seulki Kim\*, and Seung-won Choi\*. “Differential investments and opportunities: How do neighborhood conditions moderate the relationship between perceived housing discrimination and social capital?” Social Science Research 72: 69-83 [PMCID: PMC5886033] †
- 2018 Tse-Chuan Yang and Danhong Chen. “A multi-group path analysis of the relationship between perceived racial discrimination and self-rated stress: How does it vary across minority groups?” Ethnicity and Health 23(3): 249-275 [PMCID: PMC5589514] †
- 2018 Joseph Gibbons and Tse-Chuan Yang. “Searching for silver linings: Is perceived medical discrimination weaker in segregated areas?” Applied Spatial Analysis and Policy 11(1): 37-58 [PMCID: PMC5809004] †
- 2017 Kiwoong Park\* and Tse-Chuan Yang. “The long-term effects of self-esteem on depression: The roles of alcohol and drug uses during young adulthood.” Sociological Quarterly 58(3): 429-446 [PMCID: PMC5602592] †
- 2017 Tse-Chuan Yang, Stephen A. Matthews, and Kiwoong Park\*. “Looking through a different lens: Examining the inequality-mortality association in U.S. counties using spatial panel models.” Applied Geography 86: 139-151 [PMCID: PMC5602573] †
- 2017 Tse-Chuan Yang and Leif Jensen. “Climatic conditions and human mortality: Spatial and regional variation in the United States.” Population and Environment 38(3): 261-285 [PMCID: PMC5374511] †
- 2017 Tse-Chuan Yang, Yunhan Zhao\*, Qian Song\*. “Residential segregation and racial disparities in self-rated health: How do dimensions of residential segregation matter?” Social Science Research 61: 29-42 [PMCID: PMC5124442] †
- 2016 Tse-Chuan Yang, Danhong Chen, and Kiwoong Park\*. “Perceived Housing Discrimination and Self-reported Health: How Do Neighborhood Features Matter?” Annals of Behavioral Medicine 50(6): 789-801 [PMCID: PMC5127720] †
- 2016 Pamela Farley Short, John R. Moran, Tse-Chuan Yang, Fabian Camacho, Niraj Gusani, Heath Mackley, Steven Fleming, Stephen A. Matthews, and Roger T. Anderson. “Effects of hospital type and distance on lymph node assessment for colon cancer among metropolitan and non-metropolitan patients in Appalachia.” Medical Care Research and Review 73(5): 546-564 [PMCID: PMC4884173] †
- 2016 Joseph Gibbons and Tse-Chuan Yang. “Connecting across the divides of race/ethnicity: How does segregation matter?” Urban Affairs Review 52(4) 531-558†

- 2016 Steven Fleming, Heath Mackley, Fabian Camacho, Nengliang Yao, Niraj J. Gusani, Eric Seiber, Stephen Matthews, Tse-Chuan Yang, and Wenke Hwang. "Patterns of care for metastatic colorectal cancer in Appalachia, and the clinical, sociodemographic, and service provider determinants." Journal of Rural Health 32(2): 113-124 [PMCID: PMID:26241785] †
- 2015 Tse-Chuan Yang and Kiwoong Park\*. "To what extent do sleep quality and duration mediate the effect of perceived discrimination on health? Evidence from Philadelphia." Journal of Urban Health 92(6) 1024-1037 [PMCID: PMC4675743]†
- 2015 Tse-Chuan Yang and Stephen Matthews. "Death by segregation: Does the dimension of racial segregation matter?" PLoS ONE 10(9): e0138489 [PMCID:PMC4580431] †
- 2015 Tse-Chuan Yang, I-Chien Chen\*, and Aggie J. Noah\*. "Examining the complexity and variation of health care system distrust across neighborhoods: Implications for preventive health care." Research in the Sociology of Health Care 33: 43-65 [PMCID: PMC4592143]†
- 2015 Tse-Chuan Yang and Leif Jensen. "Exploring the inequality-mortality relationship using Bayesian spatial modeling." Population Research and Policy Review 34(3): 437-460 [PMCID: PMC4493752]†
- 2015 Tse-Chuan Yang, Aggie J. Noah\*, and Carla Shoff. "Exploring geographic variation in US mortality rates using a spatial Durbin approach." Population, Space, and Place 21(1): 18-37 [PMCID: PMC4310504]†
- 2014 Joseph Gibbons\* and Tse-Chuan Yang. "Self-rated health and residential segregation: How does race/ethnicity matter?" Journal of Urban Health 91(4): 648-660 [PMCID: PMC4134452]†
- 2014 Carla Shoff, Vivian Yi-Ju Chen, and Tse-Chuan Yang. "When homogeneity meets heterogeneity: the geographically weighted regression with spatial lag approach to prenatal care utilization." Geospatial Health 8(2): 557-568 [PMCID: PMC4117128]†
- 2014 Tse-Chuan Yang, Stephen A. Matthews, and Vivian Yi-Ju Chen. "Stochastic variability in stress, sleep duration and sleep quality across the distribution of body mass index: Insights from quantile regression." International Journal of Behavioral Medicine 21(2): 282-291[PMCID: PMC3851937]
- 2014 Roger T. Anderson, Tse-Chuan Yang, Nengliang Yao, Stephen A. Matthews, Eugene Lengerich, Teresa Kern, Christopher Louis, Heath Mackley, Gretchen Kimmick, and Fabian Camacho. "Breast cancer screening rates, area deprivation, and later-stage breast cancer in Appalachia: Does geography matter?" Health Services Research 49(2): 546-567 [PMCID: PMC3976186] †
- 2014 Tse-Chuan Yang, Carla Shoff, Aggie J. Noah\*, Nyesha Black\*, and Corey Sparks. "Racial segregation and maternal smoking during pregnancy: a multilevel analysis using the racial segregation interaction index." Social Science & Medicine 107: 26-36 [PMCID: PMC4029363] †

- 2014 Danhong Chen\* and Tse-Chuan Yang. "The pathways from perceived discrimination to self-rated health: An investigation of the roles of distrust, social capital, and health behaviors." Social Science & Medicine 104: 64-73. [PMCID: PMC4048349] †
- 2014 Steven T. Fleming, Heath B. Mackley, Fabian Camacho, Eric E. Seiber, Niraj J. Gusani, Stephen A. Matthews, Jason Liao, Tse-Chuan Yang, Wenke Hwang, Nengliang Yao. "Clinical, sociodemographic and service provider determinants of guideline concordant colorectal cancer care for Appalachian residents." Journal of Rural Health 30(1): 27-39. [PMCID: PMC3882337]
- 2013 Tse-Chuan Yang, Stephen A. Matthews, and Roger T. Anderson. "Prostate cancer screening and health care system distrust in Philadelphia." Journal of Aging and Health 25(5): 737-757. [PMCID: PMC3761213] †
- 2013 Stephen A. Matthews and Tse-Chuan Yang. "Spatial Polygamy and Contextual Exposures (SPACES): Promoting Activity Space Approaches in Research on Place and Health." American Behavioral Scientist 57(8): 1057-1081 [PMCID: PMC3975622] †
- 2013 Tse-Chuan Yang, Carla Shoff, and Aggie J. Noah\*. "Spatialising health research: what we know and where we are heading." Geospatial Health 7(2): 161-168. [PMCID: PMC3732658]
- 2013 Carla Shoff and Tse-Chuan Yang. "Understanding maternal smoking during pregnancy: Does residential context matter?" Social Science & Medicine 78(1): 50-60. [PMCID: PMC3545052]
- 2013 Tse-Chuan Yang, Carla Shoff\*, and Stephen A. Matthews. "Examining the spatially non-stationary associations between the second demographic transition and infant mortality: A Poisson GWR approach." Spatial Demography 1(1): 18-41. [PMCID: PMC4224018]
- 2012 Carla Shoff and Tse-Chuan Yang. "Spatially varying predictors of teenage birth rates among counties in the United States." Demographic Research 27(14): 377-418. [PMCID: PMC3493119].
- 2012 Vivian Yi-Ju Chen, and Tse-Chuan Yang. "SAS macro programs for geographically weighted generalized linear modeling with spatial point data: Applications to health research." Computer Methods and Programs in Biomedicine 107: 262-273.
- 2012 Tse-Chuan Yang, Vivian Yi-Ju Chen, Carla Shoff\*, and Stephen A. Matthews. "Using quantile regression to examine the effects of inequality across the mortality distribution in the US counties." Social Science & Medicine. 74(12): 1900-1910. [PMCID: PMC3348237]
- 2012 Carla Shoff\* and Tse-Chuan Yang. "Untangling the associations among distrust, race, and neighborhood social environment: A social disorganization perspective." Social Science & Medicine 74(9): 1342-1352. [PMCID: PMC3321124]

- 2012 Tse-Chuan Yang and Stephen A. Matthews. "Understanding the non-stationary associations between distrust of the health care system, health conditions, and self-rated health in the elderly: A geographically weighted regression approach." Health & Place 18: 576-585. [PMCID: PMC3319514]
- 2012 Carla Shoff\*, Tse-Chuan Yang, and Stephen A. Matthews. "What has geography got to do with it? Using GWR to explore place-specific associations with prenatal care utilization." GeoJournal 77(3): 331-341. [PMCID: PMC3569028]
- 2012 Stephen A. Matthews and Tse-Chuan Yang. "Mapping the results of local statistics: Using geographically weighted regression." Demographic Research 26:151-166 [PMCID: PMC4286400]
- 2012 Yi-Ju Chen, Wen-Shuun Deng, Tse-Chuan Yang, and Stephen A. Matthews. "Geographically weighted quantile regression (GWQR): An application to US mortality data." Geographical Analysis 44(2): 134-150. [PMCID: PMC4204738]
- 2012 Leif Jensen, Tse-Chuan Yang and Patricia Muñoz. "Natural resource dependence: implications for children's schooling and work in Chile." Society & Natural Resources 25(1): 3-21.
- 2011 Tse-Chuan Yang, Leif Jensen, and Murali Haran. "Social capital and human mortality: Explaining the rural paradox with county-level mortality data." Rural Sociology 76(3): 347-374. [PMCID: PMC4225697]
- 2011 Tse-Chuan Yang, Stephen A. Matthews, and Marianne Hillemeier. "Effect of health care system distrust on breast and cervical cancer screening in Philadelphia, Pennsylvania." American Journal of Public Health 101(7): 1297-1305. [PMCID: PMC3110214]
- 2011 Tse-Chuan Yang, Stephen A. Matthews, and Carla Shoff\*. "Individual health care system distrust and neighborhood social environment: How are they jointly associated with self-rated health?" Journal of Urban Health 88(5):945-958. [PMCID: PMC3191206]
- 2010 Tse-Chuan Yang and Brian McManus. "Infant mortality and social environment: An application of hotspot detection and prioritization in Georgia." Environmental and Ecological Statistics 17(4): 455-471. [PMCID: PMC3197227]
- 2010 Tse-Chuan Yang and Stephen A. Matthews. "The role of social and built environments in predicting self-rated stress: A multilevel analysis in Philadelphia." Health & Place 16: 803-810. [PMCID: PMC3200568]
- 2010 Stephen A. Matthews, Tse-Chuan Yang, Karen L. McCall, and Barry R. Ruback. "Built environment and property crime in Seattle, 1998-2000: A Bayesian analysis." Environment and Planning A 42: 1403-1420. [PMCID: PMC3984884]
- 2010 Stephen A. Matthews and Tse-Chuan Yang. "Exploring the role of the built and

social environment in moderating stress and health.” Annals of Behavioral Medicine 39: 170-1783. [PMCID: PMC4017772]

- 2010 Yi-Ju Chen, Pei-Chih Wu, Tse-Chuan Yang, and Huey-Jen Su. “Examining the non-stationary effects of social determinants on cardiovascular mortality after cold surges in Taiwan.” Science of the Total Environment 408: 2042-2049.
- 2009 Tse-Chuan Yang, Huei-Wen Teng, and Murali Haran. “The impacts of social capital on infant mortality in the U.S.: A spatial investigation.” Applied Spatial Analysis and Policy, 2 (3): 211-227.
- 2009 Tse-Chuan Yang, Pei-Chih Wu, Yi-Ju Chen, and Huey-Jen Su. “Cold surge: a sudden and spatially varying threat to health?” Science of the Total Environment 407(10): 3421-3424. [PMCID: PMC3204666]

### **Refereed Book Chapters:**

- 2015 Tse-Chuan Yang, Aggie J. Noah\*, and Carla Shoff. “Revisiting the rural paradox in US counties with spatial Durbin modeling.” In Frank M. Howell, Jeremy R. Porter, and Stephen A. Matthews (eds), Recapturing Space: New Middle-Range Theory in Spatial Demography. p.p. 253-274, Volume 1, Spatial Demography Series. Dordrecht: Springer. †
- 2009 Leif Jensen and Tse-Chuan Yang. “Taken by surprise: New immigrants in the rural United States.” In Birgit Jentsch and Myriam Simard (eds.), International Migration and Rural Areas - Global Perspectives, p.p. 17-41. Hampshire, UK: Ashgate Publishing, Ltd.

### **Book Reviews:**

- 2013 Tse-Chuan Yang. Review of *Introduction to Spatial Econometrics* by James Lesage and R. Kelley Pace. Boca Raton, Florida: CRC Press. Spatial Demography 1(1): 143-145.

### **Computational Social Science Publications:**

- 2016 Tse-Chuan Yang, Daniel Kifer, and Stephen A. Matthews. “Multiple imputations of subregions with censored location data: A Kullback-Leibler divergence approach” International Conference on Computational Social Science
- 2016 Yu Zhang, Tse-Chuan Yang, and Stephen A. Matthews. “Inferring censored geo-information with non-representative data.” International Conference on Machine Learning and Data Mining (published in the proceedings).

### **Reports:**

- 2007 Tse-Chuan Yang, and Anastasia Snyder. “NECRD Fact Sheet: Population Change in the North East 2000-2005.” The Northeast Regional Center for Rural Development, online document.



**Other Publications:**

2006 Tse-Chuan Yang. “Interdisciplinary learning in environmetrics.” Environmental and Ecological Statistics, 13(4): 358-359.

**Manuscripts in Progress (Conditional Acceptance/Revise and Resubmit):**

**Tse-Chuan Yang**, Feinuo Sun\*, and Seung-won Choi. “Is the rural paradox becoming more paradoxical? The role of social integration and social support from a longitudinal perspective.”

Vivian Yi-Ju Chen and **Tse-Chuan Yang**. “Geographically weighted quantile regression with spatially lagged dependent variable.”

**Manuscripts in Progress (Under Review):**

**Tse-Chuan Yang**, Seulki Kim\*, and Stephen A. Matthews. “Unemployment and opioid-related mortality rates in US metropolitan counties: Investigating the social capital and social isolation-smoking pathways.”

**GRANTS AWARDED****External:**

“Exploring the relationship between Medicare-Medicaid dual-eligibility and opioid use disorder among older adults living in rural America” **Principal Investigator** with Dr. Benjamin Shaw (Co-PI). NIA-supported Interdisciplinary Network on Rural Population Health and Aging 06/01/2020~05/31/2021. \$9,929.52.

“*TWC SBES: Medium: Utility for Private Data Sharing in Social Science*” **Co-Principal Investigator** with Dr. Daniel Kifer (Principal Investigator). National Science Foundation (NSF, 1228669). 09/01/2012~08/31/2016. \$ 1,066,889.

“*Pharmacotherapy Evaluation Tools for Improving Breast Cancer Outcomes in Rural Appalachia*.” **Consultant** with Dr. Rajesh Balkrishnan (Principal Investigator, University of Michigan). National Cancer Institute (NCI, R21CA168479). 09/02/2012~08/31/2014 \$ 430,865.

“*Patterns of Patient Care in Appalachia*” **Co-Investigator** with Dr. Roger T. Anderson (Principal Investigator) and others. National Cancer Institute (NCI, R01CA140335) 04/01/2010~03/31/2013. \$ 1,139,862.

“*Population Research Center Core Grant*” **Co-Investigator** (and Director of GIA Core) with Dr. Jennifer VanHook (Principal Investigator) and others. Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD, R24 HD041025-10) 01/10/2012~11/30/2016 \$ 3,662,178

**Internal:**

*“Fragile Families and the Well-being of Young Children of Immigrants: A Bi-National Pilot Project”* Presidential Initiatives Fund for Research and Scholarship. **Co-Investigator** with Dr. Zai Liang (Principal Investigator) 06/01/2015~11/30/2015 \$16,270

*“Undocumented status, fragile families, and the young children of immigrants: A bi-national pilot project.”* Center for Social and Demographic Analysis. **Co-Investigator** with Dr. Zai Liang (Principal Investigator). 04/29/2014~10/31/2014 \$10,350.

*“Relationships between racial segregation and health: How do they vary by race/ethnicity?”* Center for Social and Demographic Analysis Junior Award. **Principal Investigator**. 11/15/2013~09/01/2014. \$ 5,000.

*“Neighborhood environment, parental health care system distrust, and pediatric asthma treatment: A synergized approach of spatial and hierarchical modeling.”* Social Science Research Institute. **Principal Investigator**. 07/01/2012~06/30/2013. \$ 5,000.

*“Geographically weighted regression over imprecise data: tools for analysis and privacy preservation”* Institute for CyberScience and the Social Science Research Institute Co-funding project. **Co-Investigator** with Dr. Daniel Kifer (Principal Investigator). 01/01/2011~06/30/2012. \$ 30,000.

*“Testing the Causal Links between Television and Physical Activity”* Social Science Research Institute. **Co-Investigator** with Dr. Rukmalie Jayakody (Principal Investigator). 12/01/2010~12/31/2011, \$ 20,650.

*“Genetic variants, social, and physical environment factors: How are they associated with pediatric asthma? Evidence from Philadelphia”* Children, Youth and Family Consortium (CYFC) at the Social Science Research Institute. **Principal Investigator**. 01/01/2011~06/30/2011, \$ 5,000.

*“Mapping Agricultural Restructuring in Brazil, Argentina and Chile: Tracing the Socio-Economic Impacts of Agro-Export Specialization at the Sub-National Scale.”* Children, Youth and Family Consortium (CYFC) at the Social Science Research Institute. **Co-Investigator** with Dr. Anouk Patel-Campillo (Principal Investigator). 06/01/2010~04/01/2011, \$ 5,000.

*“Developing a non-Gaussian spatiotemporal analysis tool for handling missing data: an application to cancer research.”* Children, Youth and Family Consortium (CYFC) at the Social Science Research Institute. **Principal Investigator**. 09/01/2008~08/31/2009, \$ 14,966.

## GRANTS CURRENTLY UNDER REVIEW OR RESUBMISSION

### External:

*“Beyond Our Control: Built Environment and Maternal Smoking During Pregnancy”* R2I proposal revise and resubmit at NIH. **Principal Investigator**.

*“Temporal and Spatial Dimensions of Neighborhood Effects on Health.”* R0I proposal revise and resubmit at NIH. **Co-Investigator** with Dr. Scott South (Principal Investigator).

*“Causal Neighborhood Effects on Health: A Longitudinal Genetically-informed Approach”* R2I proposal to be submitted to NIH. **Principal Investigator**.

“An Integrated GIS Framework for Spatiotemporal Analysis for Health Research.” *R2I* proposal to be submitted to NIH. **Principal Investigator.**

## MEDIA COVERAGE

“Live in a Chicago neighborhood with a high violent crime rate? Your odds of obesity, hypertension are higher, study finds” Chicago Tribune, July 10, 2018.

“What’s race got to do with it? The relationship between race and health outcomes in segregated neighborhoods” Chicago Policy Review, May 28, 2014.

## PROFESSIONAL SERVICE

**Proposal Reviewer:** NIH, Health Services Organization and Delivery Study Section

### **Journal Reviewer:**

American Journal of Preventive Medicine	Pediatrics
American Journal of Public Health	PLOS Medicine
American Sociological Review	Population Research and Policy Review
Annals of Epidemiology	Prevention Science
Demographic Research	Psychology, Health, and Medicine
Demography	Rural Sociology
Environment and Planning A	Sleep Medicine
European Journal of Population	Social Indicator Research
Geographical Analysis	Social Science and Medicine
Geospatial Health	Social Science Research
Health and Place	Spatial Demography
International Journal of Climatology	The American Economist
International Journal of Health Geographics	The Gerontologist
Journal of Aging and Health	The Review of Regional Studies
Journal of Gerontology: Social Science	The Sociological Quarterly
Journal of Marriage and Family	Transactions in GIS
Journal of Rural Health	Urban Affairs Review
Mathematical Population Studies	Urban Studies

### **Discussant for**

Population Association of America Annual Meeting (2010, 2012, 2014, 2017, 2018)  
The Annual Meeting of the American Sociological Association (2018)

## SELECTED INVITED LECTURES

*Exploring Geographic Variation in US Mortality Rates using a Spatial Durbin Approach.*  
**Biobehavioral Health Colloquium Series, The Pennsylvania State University,** University Park, USA. 2013.

*Introduction to Spatial Econometrics.* **R Interest Group, Population Research Institute, The Pennsylvania State University,** University Park, USA. 2013.

*Spatializing Health Research: What we know and where we are heading.* **The Digital Archives GIScience Conference, National Taiwan University**, Taipei, Taiwan. 2012.

*Privacy Issues in GIS-related Research.* **Office of Research Protections, The Pennsylvania State University**, University Park, USA. 2012.

*A Space-time Perspective in Research: where do we stand and head for.* **StudioLab, The Pennsylvania State University**, University Park, USA. 2011.

*GIS and Public Health: Past, Current and Future.* **Department of Health Policy and Administration, The Pennsylvania State University**. University Park, USA. 2009.

*GIS and Health Research.* **Department of Health Policy and Administration, The Pennsylvania State University**. University Park, USA. 2008.

*Infant Mortality and Social Environment: An Application of Hotspot Detection and Prioritization in Georgia.* **Annual International Workshop on Digital Governance and Hotspot Geo-informatics for Monitoring, Etiology, Early Warning and Sustainable Management**. Jalgaon, India. 2007.

*Hotspot Detection of Infant Mortality in the U.S.: A Space-time Approach.* **International Hotspot Geoinformatics and Digital Governance Workshop**, Center for Statistical Ecology and Environmental Statistics, University Park, PA. 2006.

### SELECTED CONFERENCE PAPERS/POSTERS

“How do neighborhoods moderate the relationship between housing discrimination and social capital? A multilevel structural equation modeling approach.” (with I-Chien Chen, Seung-won Choi, and Seulki Kim). Paper presented at the Population Association of America Annual Meeting, Chicago, IL, USA. 2017

“Linking perceived discrimination during adolescence to health in middle adulthood: The mechanisms through self-esteem and risk behaviors.” (with I-Chien Chen and Seung-won Choi). Poster presented at the Population Association of America Annual Meeting, Washington DC, USA. 2016. **(Poster Session Winner)**

“Income inequality and mortality in U.S. counties, 1990-2010: A dynamic spatial panel analysis.” (with Stephen A. Matthews and Kiwoong Park). Poster presented at the Population Association of America Annual Meeting, San Diego, CA, USA. 2015. **(Poster Session Winner)**

“Perceived housing discrimination and self-rated health: Why do neighborhood features matter?” (with Danhong Chen and Kiwoong Park). Poster presented at the Population Association of America Annual Meeting, Boston, MA, USA. 2014. **(Poster Session Winner)**

“Partitioning the spatial spillover effects of social conditions on mortality: An example using US county data” (with Carla Shoff and Aggie J. Noah). Paper presented at the International Union for the Scientific Study of Population Conference, Busan, South Korea, 2013.

“Geographic variation in U.S. mortality 2004-2008: A spatial Durbin approach” (with Aggie J. Noah, and Carla Shoff). Poster presented at the Population Association of American Annual Meeting, New Orleans, LA, USA. 2013.

“Does racial segregation aggravate or alleviate the association between race/ethnicity and maternal smoking during pregnancy: A multilevel analysis” (with Carla Shoff, Nyesha Black, Aggie J. Noah, and Corey Sparks). Poster presented at the Population Association of American Annual Meeting, New Orleans, LA, USA. 2013.

“Exploring heterogeneity in health outcomes and geographic space: Integrating quantile and geographically weighted regression” (with Stephen A. Matthews and Vivian Yi-Ju Chen). Paper presented at the Population Association of America Annual Meeting, San Francisco, CA, USA. 2012.

“Understanding maternal smoking during pregnancy: How does social capital get under the skin?” (with Carla Shoff). Paper presented at the Population Association of America Annual Meeting, San Francisco, CA, USA. 2012.

“Exploring the roles of support and neighborhood trust in modifying the association of parenthood and marital status with stress.” (with I-Chien Chen). Paper presented at the Population Association of America Annual Meeting, San Francisco, CA, USA. 2012.

“Spatially varying predictors of teenage birth rates among counties in the United States” (with Carla Shoff). Poster presented at the Population Association of America Annual Meeting, San Francisco, CA, USA. 2012.

“Tales from the tails: Examining the effect of inequality at the extremes of the mortality distribution.” (with Vivian Yi-Ju Chen, Carla Shoff, and Stephen A. Matthews). Poster presented at the Population Association of America Annual Meeting, Washington, DC, USA. 2011.

“What has geographic got to do with it? Using GWR to explore place-specific associations with prenatal care utilization.” (with Carla Shoff and Stephen A. Matthews). Poster presented at the Population Association of America Annual Meeting, Washington, DC, USA. 2011.

“Exploring the spatially varying effects of neighborhood trust and health care system distrust on self-rated health among the elderly: A geographically weighted regression approach.” (With Stephen A. Matthews). Presented at the GIS in the Humanities and Social Sciences, Taipei, Taiwan. 2009.

“Exploring the determinants of stress: An examination using spatial and multilevel analysis in Philadelphia.” (with Stephen A. Matthews). Presented at The Population Association of America Annual Meeting, Detroit, MI USA. 2009.

“Context and death: A spatial investigation of the impacts of social capital and natural amenities on mortality in U.S. counties.” (with Leif Jensen and Murali Haran). Presented at The Population Association of America Annual Meeting, New Orleans, LA USA. 2008.

“Spatial and multilevel models of neighborhood food environments, diet and obesity in Philadelphia, USA, 2006” (with Stephen Matthews, Steve Cummins and Richard M. Simon).

Poster at the International Society for Behavioral Nutrition and Physical Activity, Banff, Canada, 2008

“Spatial Inequality in Chile: Stasis and Change” (with Leif I. Jensen and Stephen A. Matthews). Presented at the Population Association of America Annual Meetings, Los Angeles, CA, USA. 2006.

### **COURSES OFFERED**

Undergraduate:

Statistics for Sociologists (ASOC 221)  
Social Demography (ASOC 370)  
Neighborhood Effects on Health (ASOC 485W)

Graduate:

Multivariate Analysis (ASOC 609)  
Demographic Techniques (ASOC 552)

### **DISSERTATION COMMITTEES**

Woojae Han (Member, Department of Social Welfare, UAlbany). Assistant Professor at Binghamton University

Aggie J. Noah (Member, Department of Sociology, Penn State University). Assistant Professor at Arizona State University

Lei Lei (Member, Department of Sociology, UAlbany). Assistant Professor at Rutgers University

Sungeun Kim (Member, Department of Public Administration, UAlbany). Assistant Professor at Oakland University

Colleen Wynn (Member, Department of Sociology, UAlbany). Assistant Professor at University of Indianapolis

### **AWARDS/CERTIFICATES**

State University of New York Chancellor’s Award for Excellence in Teaching, 2019

University at Albany President’s Award for Excellence in Teaching, 2018.

Population Association of America Annual Meeting Poster Award. 2014, 2015, & 2016.

Certificate of Survival Analysis Workshop. The Interuniversity Consortium for Political and Social Research (ICPSR). 2015

Certificate of Immigration and Health Robert Wood Johnson Workshop. The Interuniversity Consortium for Political and Social Research (ICPSR). 2015

Certificate of Social Network Analysis Workshop. The Interuniversity Consortium for Political and Social Research (ICPSR). 2008

Certificate of Advanced Spatial Analysis on Geographically Weighted Regression. Center for Spatially Integrated Social Science (CSISS). 2008

Certificate of Advanced Spatial Analysis on Point Pattern Analysis. Center for Spatially Integrated Social Science (CSISS). 2008

Research Protection Training Certificate. The Office of Research Protection, The Pennsylvania State University. 2005

GIS and Population Science Workshop Completion Certificate. Center for Spatially Integrated Social Science (CSISS). 2005

Certificate of ArcGIS® I. Environmental Systems Research Institute (ESRI). 2005

### **PROFESSIONAL MEMBERSHIPS**

American Sociological Association  
The Population Association of America  
The Rural Sociological Society

### **ADMINISTRATIVE SERVICES**

University/College Level:

Undergraduate Academic Council Senate, 2017-Present  
College of Arts and Sciences Council Representative, 2014-2016  
Sociology Liaison for the University in the High School Program, University at Albany, 2013-2017  
Internal Advisory Board, Social Science Research Institute, Penn State University, 2011-2013.

Department Level:

Graduate Committee, Member (2017-2018)  
Executive Committee, Member (2015-2017)  
Undergraduate Committee, Member (2015-2016; 2018-Present)  
Teaching Committee, Member (2013-2015; 2016-2018)  
Recruitment Committee, Member (2014-2015)

### **TECHNICAL SKILLS**

**Ordinary Statistics Software:** SPSS, SAS, Minitab, R

**Structural Equation Modeling:** LISREL, AMOS, Mplus

**Hierarchical Modeling Software:** HLM, MLWin

**Social Network Analysis:** Ucinet, Pajek,

**Geographic Information Systems:** ArcGIS, ArcView

**Spatial Analysis Software:** Spatial statistics packages for R (GeoR, Spdep, akima, spatial, spatstat), Spatial-econometrics toolbox for MATLAB, GeoDA, Flow Mapper, CrimeStat, and Geographically Weighted Regression (GWR).

**Bayesian Simulation Software:** R, WinBUGS, GeoBUGS.