

Dr. Seth E. Spielman

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Department of Geography
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University of Colorado
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Education

2008	State University of New York at Buffalo, Ph.D. Certificate in Geographic Information Science	Geography
2001	Columbia University, M.S.	Urban Planning
1997	Macalester College, B.A.	Geography

Employment History

2019-	Asst. Vice Chancellor, Chief Data Science/Strategy Officer	University of Colorado – Boulder
2017-	Associate Professor of Information Science (by courtesy)	University of Colorado – Boulder
2015-	Associate Professor of Geography	University of Colorado – Boulder
2015-2019	Senior Data Scientist/Manager	Apple, Inc.
2010-2015	Assistant Professor of Geography	University of Colorado - Boulder
2010-2012	Adjunct Assistant Professor of Population Studies	Brown University
2008-2010	Associate Director, Brown University Initiative in Spatial Structures in the Social Sciences	
	Lecturer in Sociology	Brown University
2008	Postdoc, Renaissance Computing Institute	University of North Carolina - Charlotte
2006-2007	Cartographer (STEP)	US Forest Service, Buffalo, NY
2005-2006	Adjunct Associate Research Scientist	Columbia University
2005-2006	Adjunct Assistant Professor	Columbia University
2001-2004	GIS Coordinator	Columbia University
2000	Researcher	Office of State Planning, Trenton, NJ
1999-2000	Intern	Regional Plan Association, New York, NY
1997-1999	President and Owner	Reference Book Center, New York, NY
1996	Intern	Cassidy and Associates, Washington, DC
1996	Applied Research Assistantship	Center for Urban Affairs, Minneapolis, MN
1995	Intern for Minnesota Rep. Myron Orfield	Saint Paul, MN

Awards and Honors

2018	Fellow, Institute of Behavioral Science
2018	Elected Chair, University of Colorado Budget and Planning Committee
2017	Social Science History Association (SSHA), Founder's Award for Best Paper.
2017	American Statistical Association, Statistical Partnership Among Academe, Industry, and Government Award (SPAIG)
2017	International Journal of Geographic Information Science Award for most read paper.
2016	Distinguished Scholar Award, Regional Development and Planning, American Association of Geographers.
2015-	Appointment US Census Bureau Data Products Redesign Group
2015-2017	Associate Editor, <i>Computers Environment and Urban Systems</i>
2014	University of Colorado BFA Faculty Recognition Award
2014	The Michael Breheny Prize for Best Paper in Urban Analytics and City Science

- 2013-2014 US Department of Interior: Strategic Science Group: Hurricane Sandy
- 2013 Kaggle Data Science Competition: First Place, Census Data Visualization Competition
- 2009 Brown University Community Engaged Scholar Award
In recognition of integrating community engagement activities in teaching and scholarship
- 2004-2008 NSF-IGERT Fellowship in Geographic Information Science, SUNY-Buffalo
- 2007 University Consortium for Geographic Information Science, Student Travel Award
- 2007 Urban and Regional Information Systems Association (URISA) Student Paper Award
- 2007 NCGIA-Hugh Calkins Memorial Award in Applied GIS, SUNY-Buffalo
- 2002 Certificate of Recognition 9/11 Emergency Mapping and Data Center
NYC Office of Emergency Management
- 2001 Columbia University Award for Excellence in Planning Methods and Techniques

Publications

Books and Edited Volumes

1. Singleton, A. **Spielman, SE.** and Folch D. (2018) *Urban Analytics*. Sage.
2. **Spielman, SE.**, Xiao, N., Cockings, S., and Tanton, R. (2017) Spatial Analysis with Demographic Data: Emerging Issues and Innovative Approaches. Special Issue of *Computers, Environment and Urban Systems*.

Peer Reviewed Journal Articles (student advisee co-author*, postdoc co-author[†])

3. **Spielman, SE.**, Tuccillo, J.*, Wood, N., Tate, E. (2020) Evaluating social vulnerability indicators: criteria and their application to the Social Vulnerability Index. *Natural Hazards*
4. Fowler, C., Frey, N., Folch, DC. [†], Nagle, N., and **Spielman SE.** (2019) Who are the People in my Neighborhood?: The “Contextual Fallacy” of Measuring Individual Context with Census Geographies. *Geographical Analysis*.
5. Weinberg, D., Abowd, J., Belli, R., Cressie, N., Folch, DC. [†], Holan, S., Levenstein, M., Olson, K., Reiter, J., Shapiro, M., Smyth, J., Soh, L-K., Spencer, B., **Spielman, SE.**, Vilhuber, L., Wikle, C. (2019) Effects of a Government-Academic Partnership: Has the NSF-Census Bureau Research Network Helped Improve the U.S. Statistical System? *Journal of Survey Statistics and Methodology*
6. Jurevitch, J., Griffin, AL., **Spielman, SE.**, Folch, DC. [†], Merrick, M. (2018) Navigating Uncertainty: How Urban and Regional Planners Use The American Community Survey. *Journal of the American Planning Association*
7. Folch, DC[†], **Spielman, SE.**, Manduca, R. (2018) Fast Food Data: Where User Generated Content Works, and Where it Doesn't. *Geographic Analysis*
8. **Spielman, SE.**, Xiao, N., Cockings, S., and Tanton, R. (2017) Statistical Systems and Census Data in the Spatial Sciences. *Computers, Environment, and Urban Systems*.
9. Bellman, B*, **Spielman, S.E.**, and Franklin R.S. (2017) Local Population Change and Variations in Racial Integration in the United States, 2000–2010. *International Regional Science Review*.
10. Guttman, M., Brown, D., Cunningham, A.*, Dykes, J., Leonard, S., Little, J., **Spielman, S.E.**, and Sylvester, K. (2016). Migration in the 1930s: Beyond the Dust Bowl. *Social Science History*. 40(4) 707-740
11. Folch, D.C. [†], Arribas-Bel, D., Koschinsky, J., and **Spielman, S.E.** (2016). Uncertain Uncertainty: Spatial Variation in the Quality of the American Community Survey. *Demography* 53(5) 1535-1554

12. Singleton, A., Brundson, C., and **Spielman, S.E.** (2016) Establishing a Framework for Open Geographic Information Science. *International Journal of Geographic Information Science* .30(8) 1507-1521
* IJGIS Most Frequently Downloaded Paper 2016
13. **Spielman, S.E.** and Singleton A. (2015) Studying Neighborhoods Using Uncertain Data From the American Community Survey. *Annals of the American Association of Geographers*. 105(5) 1003-1025.
14. Wood, N., Jones, J., **Spielman, S.E.**, Schmidtlein, M. (2015) Community clusters of tsunami vulnerability in the U.S. Pacific Northwest . *Proceedings of the National Academy of Science*. 112(17) 5345-5359.
15. **Spielman, S.E.** and Folch, DC. † (2015) Reducing the Margins of Error in the American Community Survey Through Data-Driven Regionalization. *PlosOne*. 10(2) 1-21.
16. Singleton, A. and **Spielman, S.E.** (2014) The Past Present and Future of Geodemographics in the US and UK. *The Professional Geographer*. 66(4) 558-576.
17. Spielman, S.E., Folch, D.†, Nagle, N. (2014) Causes and Patterns of Uncertainty in the American Community Survey. *Applied Geography*, 46 147-157
18. Folch, D.† and **Spielman, S.E.** (2014) Identifying Regions based on Flexible User Defined Constraints. *International Journal of Geographic Information Science*, 28(1) 164-184.
19. **Spielman, S.E.** (2014) Spatial Collective Intelligence? Accuracy, Credibility and Volunteered Geographic Information. *Cartography and Geographic Information Science*, 41(2) 115-124.
20. Nagle, N., Battenfield, B., Leyk, S., **Spielman, S.E.** (2014) Dasyetric Modeling and Uncertainty. *The Annals of the Association of American Geographers*, 104(1) 80-95.
21. **Spielman, S.E.**, Harrison, P. (2014). The Co-Evolution of Residential Segregation and the Built Environment at the Turn of the 20th Century: a Schelling Model. *Transactions in GIS*, 18(1) 25-45.
22. **Spielman, S.E.** and Logan, J. (2013) Using High Resolution Population Data to Identify Neighborhoods and Determine their Boundaries. *Annals of the Association of American Geographers*. 103(1) 67-94.
23. **Spielman, S.E.**, Yoo, E.H., Linkletter, C. (2013) Neighborhood context, health, and behavior: the role of scale and residential sorting in statistical inference *Environment and Planning B*. 40(3) 489-506.
* Winner of the Michael Breheny Prize for Best Paper in Environment and Planning
24. Logan, J., **Spielman, S.E.**, Xu, H.*, Klein, P. (2011) Identifying Ethnic Neighborhoods. *Urban Geography*, 32(3), 334-359.
25. **Spielman, S.E.** and Yoo, E.-H. (2009) The Spatial Dimensions of Neighborhood Effects. *Social Science and Medicine*, 68(6) 1198-1105.
26. **Spielman, S.E.** and Thill, J.-C. (2008) Social Area Analysis, Data Mining, and GIS. *Computers, Environment and Urban Systems*, 32 (2), 110-122
* CEUS Top 25 Most Cited Article List 2010-2012
27. Erdemir, E. T., Batta R., **Spielman S. E.**, Rogerson P. (2008). Optimization of aeromedical base locations in New Mexico. *Accident Analysis and Prevention*, 40(3) 1105-1114.
28. Erdemir, E.T., Batta, R., **Spielman, S.E.**, Rogerson, P., Blatt, A., and Flanigan, M. (2008). Location Coverage Models with Demand Originating from Nodes and Paths: Application to Cellular Network Design. *European Journal of Operations Research*, 190(3) 610-632.
29. Borrell, L., Northridge, M. E., Miller, D., Golembeski, C.A., **Spielman S. E.** (2007). Oral Health and Health Care for Older Adults: Addressing Disparities and Planning Services. *Special Care in Dentistry*, 26(6) 252-266.

30. **Spielman, S. E.** (2006) Appropriate use of the K-function in Urban Environments. *American Journal of Public Health*, 96(2) 205.
31. **Spielman, S.E.,** Golembeski, C.A., Northridge, M.E., et al. (2006) Interdisciplinary Planning for Healthier Communities: Findings from the Harlem Children's Zone Asthma Initiative. *Journal of the American Planning Association*, 72(1) 100-108.

Book Chapters

32. **Spielman, S.E.** (2017) The Potential for Big Data to Improve Neighborhood-Level Census Data. *Seeing Cities Through Big Data - Research, Methods and Applications in Urban Informatics*. Thakuria, V. (ed).
33. **Spielman, S.E.** (2016) Point Pattern Analysis. *International Encyclopedia of Geography*. (4700 words)
34. **Spielman, S.E.,** Folch, D.C. (2015) Social Area Analysis with Self-Organizing Maps. Chapter 9, p.152-169 in *Geocomputation*. Brundson, C. and Singleton, S. (eds.) Sage Press.

Peer Reviewed Conference Proceedings

35. Griffin, A., **Spielman, S.E.,** Jurjevuch, J., Merrick M., Folch, DC. (2014) Supporting Planners: Work with Uncertain Demographic Data.. Proceedings of VIS, 9-14.
36. **Spielman, S.E.** (2014) The Potential for Big Data to Improve Neighborhood-Level Census Data. *Big Data and Urban Informatics*. Chicago, August 2014.
37. Manduca, R., **Spielman, S.E.,** Folch, D.C.† (2014) Phoenix is Cool: Administrative and Big Data complement each other. *Big Data and Urban Informatics*. Chicago, August 2014.
38. **Spielman, S.E.** (2012). Exceptions to the Law: Negative Spatial Autocorrelation in Egocentric Spatial Analysis. Proceedings, GIScience 2012, Columbus Ohio, September.
http://www.giscience.org/past/2012/proceedings/abstracts/giscience2012_paper_145.pdf
39. **Spielman, S.E.** (2012). Thinking Inside the Box: Heterogeneity Within Census Enumeration Zones (and Why It Matters). Proceedings, AutoCarto 2012, Columbus Ohio, September.
40. Nagle, N., Battenfield, B., Leyk, S., and **Spielman, S.E.** (2012). An Uncertainty-Informed Penalized Maximum Entropy Dasymetric Model. Proceedings, GIScience 2012, Columbus Ohio, September.
41. **Spielman, S.E.** (2011). Time-Geography and the Twilight Zone, Proceedings of ISPRS-ICA Joint Commission on Geospatial Analysis and Modeling, Simon Frasier University, August.
42. **Spielman, S.E.** and Linkletter, C. (2011). Understanding the Role of Scale and Sorting in the Estimation of Neighborhood Effects, Proceedings of the 17th European Colloquium on Quantitative and Theoretical Geography Athens, Greece, August.

Reports and Working Papers

43. The 'contextual fallacy' of measuring individual context with census geographies (2018). CS Fowler, N Frey, DC Folch, N Nagle, SE Spielman. Center for Economic Studies, US Census Bureau Working Papers
44. Understanding the Evolution of Customer Motivations and Adoption Barriers in Residential Solar Markets: Survey Data (2017). Sigrin, Ben; Dietz, Tom; Henry, Adam; Ingle, Aaron; Lutzenhiser, Loren; Moezzi, Mithra; Spielman, Seth; Stern, Paul; Todd, Annika; Tong, James. National Renewable Energy Laboratory-Data (NREL-DATA), Golden, CO (United States); National Renewable Energy Laboratory
45. Department of Interior Strategic Sciences Group (2014) (Spielman, S.E. one of 15 authors) Operation Group Sandy Technical Report. Department of Interior, Reston, VA.

46. Folch, D.C., Arribas-Bel, D., Koschinsky, J., and **Spielman, S.E.** (2014). Uncertain Uncertainty: Spatial Variation in the Quality of American Community Survey Estimates. Arizona State University, Geoda Center Working Paper Series.
47. **Spielman, S.E.** and Folch, D.C. (2014). Reducing Uncertainty in the American Community Survey through Data-Driven Regionalization. University of Colorado, Institute of Behavioral Science Working Paper Series (Paper # POP2014-05).
48. **Spielman, S.E.**, Logan, J. and Buka, S. (2011) A Report to the National Institutes of Health, National Children's Study, Section on Neighborhood Measurement: Using structured social observation to assess neighborhood contexts.

Grants & Awards

Sponsor:

2016	The Rocky Mountain Research Data Center. National Science Foundation (Division of Social and Economic Sciences) (Spielman, CO-PI, Award Number 1566136)	\$300K
2014	USGS: Social and Economic Vulnerability to Atlantic Storms. (Spielman, PI)	\$26K
2013-2016	Collaborative Research: Measuring Social Vulnerability to Natural Hazards. National Science Foundation (Infrastructure Management and Extreme Events Division), University of Colorado (Spielman, PI \$169K, Award Number 1333271) University of Iowa (Eric Tate, PI \$167K) University of South Carolina (Chris Emrich, PI \$174K)	\$509K
2013-2016	The Evolution of Customer Motivations in Photovoltaics Markets Department of Energy, Solar Energy Evolution and Diffusion Studies Program Easan Drury, National Renewable Energy Lab (Project Director) Spielman Principal Investigator on a \$90K subcontract to the University of Colorado	\$2.14M
2013	Geodemographic Classification of the US, Univ. of Colorado Institute of Behavioral Sciences Population Center (Spielman, Project Director)	\$2500
2013	The Internal Structure of US Cities, University of Liverpool (UK) Grant supported 2 weeks for Spielman in residence in at the University of Liverpool	£5000
2012-2015	Geovisualization of Uncertainty in the ACS National Science Foundation (Methodology, Measurement, and Statistics Division), supplement to Award Number 1132008 Spielman, Principal Investigator (Project Director)	\$275K
2011-2016	NSF-Census Research Network: Spatial Science Node. National Science Foundation (Methodology, Measurement, and Statistics Division), Award Number 1132008 Spielman, Principal Investigator (Project Director)	\$1.2M
2011	Junior Scholar Travel Grant, Association of American Geographers	\$1100
2010-2011	The Collection of Observational Data on Neighborhoods National Institutes of Health, National Children's Study (Providence Site) Project Director Steve Buka Spielman, Principal Investigator on \$24K subcontract	\$24K
2004-2005	Promoting GIS in Social Sciences Columbia University Academic Quality Fund	\$186K

Award to integrate spatial thinking and methods into social science training at Columbia University. Eliot Sclar (Project Director), Kathryn Neckerman, and Seth Spielman

2003-2004	Advancing Population Health in Northern Manhattan Robert Wood Johnson Foundation (Mary Northridge, PI)	\$3500
2002-2003	The Harlem Children's Zone Asthma Initiative: Mapping Progress National Institutes of Environmental Health Sciences (R. Vaughan, PI)	\$15,000
2002-2003	The Harlem Children's Zone Asthma Initiative: Mapping Progress Anne E. Dyson Community Pediatrics Initiative (Mary Northridge, Project Director)	\$49,000

Presentations (invited presentation; student co-author*, postdoc co-author[†], presenter, 2015- only invited lectures included)**

- 2019 ****Spielman, S.E.** Data Usability and Local Knowledge. Columbia University, Lectures in Planning, November.
****Spielman, S.E.** Differential Privacy; Spatial Considerations. National Academy of Science, Committee on National Statistics, December.
- 2018 ****Spielman, S.E.** How to fix a \$400 Billion map. Mayer Lecture at the University of Wisconsin. American Geographical Society Library. March.
- 2017 ****Spielman, S.E.** Keynote: Making Decisions with Uncertain Data. Carto.com Spatial Data Science Conference. New York, NY
- 2016 ****Spielman, S.E.** Demographic Data and Big Data – The growing divide between industry and the Academe. Royal Society – Demographics Users Group, London, UK, October.
****Spielman, S.E.** Computational Spatial Demography. University of Liverpool, Geography Colloquium, Liverpool, UK, October.
****Spielman, S.E.** Representing Neighborhoods. California Population Research Center, University of California, Los Angeles
****Spielman, S.E.** Computational Spatial Demography. University of Liverpool, Geography Colloquium, Liverpool, UK, October.
- 2015 ****Spielman, S.E.** How Well Do We Understand America's Neighborhoods? Geography Department, The Ohio State University, Columbus, OH, January.
****Spielman, S.E.** Assessing Criteria for Usable Statistical Geographies. National Academy of Science, Committee on National Statistics, Washington, D.C. May.
Spielman, S.E. Remapping the ACS: What Makes a Good Neighborhood-Scale Census Geography. American Community Survey Users Annual Meeting, Washington, D.C. May.
- 2014 ****Spielman, S.E.** How Well Do We Understand America's Neighborhoods? Analyze Boulder: Data Science Meeting. Boulder, CO, February.
Spielman, S.E. and Singleton A. An Open Geodemographic Classification of the United States. Association of American Geographers Annual Meeting, Tampa, FL, April.
****Spielman, S.E.** Reducing the Margins of Error in the American Community Survey Through Intelligent Aggregation. Population Association of America Annual Meeting, Boston, MA, May.
****Spielman, S.E.** Data-Driven Tabulation Units to Reduce Sampling and Non-Sampling Error. Joint Statistical Meeting, Boston, MA, August.
****Spielman, S.E.** Reducing Uncertainty in the American Community Survey (ACS) By Reconceptualizing Neighborhoods. Institute for Social Research (ISR), Ohio State University. Columbus, OH, September.

- **Spielman, S.E.** What Differentiates Urban Space? Geography Department, University of Minnesota. Minneapolis, MN, October.
- 2013 ****Spielman, S.E.** Urban Structure and Statistical Efficiency in the ACS. University of Missouri Department of Statistics Colloquium, Columbia, MO, November.
- **Spielman, S.E.** Reducing the Margins of Error in the American Community Survey Through Intelligent Aggregation. National Institute of Statistical Sciences, Washington, DC, September.
- **Spielman, S.E.** and Folch, D.C.[†] Regionalization Approach to Reduce Small Area Margins of Error in the American Community Survey. United States Census Bureau, Washington, DC, June.
- **Spielman, S.E.** and Folch, D.C.[†] Using and Improving Small Area Data from the American Community Survey. The Urban Institute, Washington, DC, June.
- Spielman, S.E.** and Folch, D.C.[†] Reducing the ACS Margins of Error Through Data Driven Regionalization. North American Regional Science Conference, Atlanta, GA, November.
- Spielman, S.E.** Residential Segregation and the Built Environment. North American Regional Science Conference, Atlanta, GA, November.
- Spielman, S.E.** The American Community Survey: Under the Hood. Association of American Geographers Annual Meeting, Los Angeles, CA, April.
- Spielman, S.E.** Egocentric Contexts, Uncertainty and Representation. Association of American Geographers Annual Meeting, Los Angeles, CA, April.
- Spielman, S.E.** (discussant) Spatial Analysis Methods for Historical Demography. Association of American Geographers Annual Meeting, Los Angeles, CA, April.
- 2012 Nagle, N.N. and **Spielman S.E.** Geographic Frontiers in the Federal Statistical System, Association of American Geographers Annual Meeting, New York, NY, February.
- Williams, S. and **Spielman, S.E.** Bit City: Data, Technology and Understanding the City, Association of American Geographers Annual Meeting, New York, NY, February
- **Spielman, S.E.** Spatial Demography Panel, Association of American Geographers Annual Meeting, New York, NY, February
- Spielman, S.E. and Harrison, P.** The coevolution of the built and social environment, Association of American Geographers Annual Meeting, New York, NY, February
- **Spielman, S.E.** Egocentric Spatial Analysis, University of Wyoming, Laramie, WY, March.
- 2011 ****Spielman, S.E.,** Logan, J.R., Buka, S., and Rogers, M. Developing Indicators of Neighborhood Environments that Affect Child Health and Development. National Children's Study Research Symposium, Washington, DC, November.
- Spielman, S.E.** Urban Form, Scale, and Statistical Inference, 17th European Colloquium on Quantitative and Theoretical Geography, Athens, Greece, August.
- **Spielman, S.E.** and Nagle, N.N. NSF-Census Research Network: Spatial Sciences Research Node, US Census Bureau Headquarters, Washington, DC, December.
- Spielman, S.E.** Scale, Sorting, and the Estimation of Neighborhood Effects, Association of Collegiate Schools of Planning Annual Meeting, Salt Lake City, UT, October.
- **Spielman, S.E.** Western Regional Science Association Annual Meeting, Using high resolution population data to identify neighborhoods, Monterey, CA, February.
- 2010 **Spielman, S.E.** and Logan, J. Building neighborhoods from individuals: bottom-up spatially explicit models of neighborhood socio-spatial structure. Association of American Geographers Annual Meeting, Washington, DC, April.
- 2009 **Spielman, S.E.** Association of American Geographers Annual Meeting, Scale, Scale-linkage and neighborhood effects on health, Las Vegas, NV, March.

- 2008 **Spielman, S. E.** Directional statistics to detect differences in spatial behavior by geo-demographic groups, Association of American Geographers Annual Meeting, Boston, MA, April..
- Spielman, S.E.** Estimating Neighborhood / Environmental Effects: A simulation approach, North American Regional Science Association Annual Meeting, New York, November.
- 2007 **Spielman, S.E.** and Thill, J.C. Social Area Analysis, Data Mining, and GIS, International Cartographic Association's Second Meeting on Geospatial Analysis and Modeling of the Spatial Structure and Dynamics of Urban Environments, Athens, GA, July
- Spielman, S.E.** and Thill, J.C. University Consortium for Geographic Information Science Summer Assembly, Social Area Analysis, Data Mining, and GIS., June.
- 2006 **Spielman, S.E.** Understanding Neighborhood Demographics Through the Kohonen Algorithm and GIS. Annual North American Meeting of the Regional Science Association, Savannah, GA, November.
- Spielman, S. E.** Baltimore Ecosystem Study Quarterly Science Meeting, Asthma, the Built Environment, and the Baltimore Ecosystem Study, Baltimore, MD, October.
- Spielman, S.E.** The built-environment and health research challenges and opportunities. Association of American Geographers Annual Meeting, Chicago, IL, April.
- 2005 ****Spielman, S. E.** The Harlem-Children's Zone Asthma Initiative, American Planning Association Annual Meeting, San Francisco, CA, April.
- 2004 ****Spielman, S. E.,** and Ortiz B. GIS in Community Pediatrics, Anne E. Dyson Foundation Community Pediatrics Workshop, La Jolla, CA, February.
- Spielman, S. E.** Community Based GIS and Asthma in Central Harlem, Second International Health GIS Conference, Washington, DC, October.
- **Spielman, S. E.** Community Based Health Interventions and GIS, Columbia University Urbanism and Health Seminar Series, New York, NY, December.

Teaching Experience

University of Colorado

Graduate Research Design Seminar - GEOG 5161 (Spring 2017, 2018)
 Undergraduate Research Method - GEOG 4173 (Fall 2016)
 Quantitative Methods for Geography - GEOG 4023/5023 (Spring 2013, 2014, 2015)
 American Cities – GEOG 3612 (Spring 2011, 2013, 2015, 2019)
 Statistics for Geography – GEOG 3023 (Fall 2010, 2011, 2012, 2017)
 Introduction to Human Geography – GEOG 1992 (Spring 2012)

2012 Institute of Behavioral Science: Summer Institute in Spatial Demography
 2011 Institute of Behavioral Science: Statistical Programming with R

Brown University

2009 Spatial Statistics
 2008-2010 Principles of Geographic Information Science
 2008-2010 GIS Institute (intensive 2-week GIS course for advanced doctoral students and faculty)

SUNY Buffalo

2004 Introductory Statistics (Teaching Assistant)

Columbia University

2002-2004 GIS for Architects and Planners
 2001 Hazard Resistant Caracas (Studio) (Teaching Assistant)

Macalester College

1996 Introduction to GIS (Teaching Assistant)

Mentoring Activities

Postdoctoral Supervision

Folch, David C. University of Colorado Institute of Behavioral Science (August 2012-2014, Tenure track Assistant Professor, Florida State University)

Doctoral Supervision

Getman, Dan University of Colorado Geography (started program Fall 2012, exited Fall 2014, National Renewable Energy Lab, Digital GLOBE)

Bredemeyer, William University of Colorado Geography (started program Fall 2011, completed 2017; US Census Bureau)

Tuccillo, Joseph University of Colorado Geography (started program Fall 2015, ABD 2017)

Master's Supervision

Hardin, Andrew University of Colorado Geography (Oak Ridge National Lab)

Rebecca Davies University of Colorado Geography (defended 2017)

Tuccillo, Joseph University of Colorado Geography (defended 2015, started PhD)

Undergraduate Honor's Supervision

Bellman, Ben University of Colorado Geography (Doctoral Program in Sociology, Brown University)

Doctoral Committee Member

Guitilla, Molly University of Colorado School of Public Health (ongoing)

Longenecker, Gene University of Colorado Geography (ongoing)

Stum, Alex University of Colorado Geography (ongoing)

Amante, Christopher University of Colorado Geography (ongoing)

Zoraghein, Hamid University of Colorado Geography (ongoing)

Humphrey, Jamie University of Colorado Geography (defended 2015)

Williams, Adam University of Colorado Geography (defended 2014)

Delmerico, Alan University at Buffalo Geography (defended 2013)

Linke, Andrew University of Colorado Geography (defended 2013)

Wendel, Jochen University of Colorado Geography (defended 2013)

Hong, Jessie University of Colorado Geography (defended 2012)

Jones, Bryan University of Colorado Geography (defended 2012)

Xu, Hongwei Brown University Sociology (defended 2012)

Master's Committee Member

Gleason, Michael University of Colorado Geography (defended 2013)

Wang, Xi University of Colorado Environmental Studies (defended 2013)

Singh, Gayatri Brown University Sociology (defended 2009)

Greenfield, Nicholas Brown University Environmental Studies (defended 2009)

Training Workshops Attended

2014-2015 University of Colorado: University Leadership Institute

2014 ICPSR: Applied Multilevel Models for Longitudinal Data

2013 University of Colorado Boulder: Teaching With Technology Seminar

2012 University of Colorado Boulder: Faculty Teaching Excellence Program: Assessment Institute

2011 Massachusetts Institute of Technology: New England Complex Systems Institute

2010 University of Colorado Boulder: Faculty Teaching Excellence Program: iClickers Workshop

2008 University of Colorado Boulder: Environmental Demography,

2007 State University of New York at Buffalo: Workshop on Hierarchical Linear Modeling

2007 University of California Berkeley: Workshop on Object Based Image Analysis

2005 Vespucci Summer School in Geographic Information Science, Fiesole, Italy

2004 University of California Santa Barbara: Point Pattern Analysis in the Social Sciences

2004 Columbia University Database Application Development Certificate

Professional Service

National Service

2019-2020 Guest Editor, National Population Mapping, *Proceedings of the National Academies of Science*
2017- Editorial Board, *Annals of the American Association of Geographers*
2017- Editorial Board, *Geographical Analysis*
2015-2018 National Science Foundation, Methodology Measurement and Statistics Panelist
2015-2018 US Census Bureau Data Products Review Group
2015-2017 Associate Editor, *Computers Environment and Urban Systems*
2013-2016 Associate Editor, *Regional Studies and Regional Science*
2014-2015 Membership Chair, University Consortium for GIS (UCGIS)
2014 National Institutes of Health, National Cancer Institute, Geospatial Research Advisory Panel
2013 Department of Interior and Office of the White House Science Advisor: Hurricane Sandy Recovery
Task Force: Strategic Sciences Group
2012 Measuring People in Place: Conference Organizer and Program Chair, Boulder CO Oct 2012
2010-2013 Chair/Vice-Chair/Past-Chair of the AAG Geographic Information Science Specialty Group
2006 Public Health Advisory Group, Baltimore Ecosystem Study: Baltimore Long Term Ecological
Research Site
2006-2007 Student Membership Representative, Urban and Regional Information Systems Association (URISA)
2000 Editor, URBAN Columbia Urban Planning Magazine

University Service -- CU Boulder

Campus

2012- University of Colorado at Boulder – (BFA) Budget and Planning Committee
2012-2016 University of Colorado at Boulder Faculty Senate (BFA)

College of Arts & Sciences

2012-2015 Center for Advanced Teaching in the Social Sciences (CARTSS) - Board Member

Department of Geography

2017 Computer Committee
2015 Professional Masters in GIS, exploratory research and proposal development.
2014 Faculty Search Committee (GIS)
2013- Personnel Committee
2012-2013 IT Specialist Search Committee
2011-2013 Computer Committee
2011-2012 Faculty Search Committee (Development)
2010-2011 Undergraduate Committee

University Service – Brown University

2009-2010 Brown University Community Engaged Scholars Program
2008-2012 Faculty Affiliate of the Brown University Population Studies and Training Center
2008-2010 Faculty Affiliate of the Brown University Environmental Change Initiative

Community Service

2016-2017 City of Boulder Public Participation Working Group
2015 Housing Data Analysis for the City of Boulder

2003-2004 Secretary, Brooklyn Waterfront Club (Community-based land use advocacy and planning)
2001 World Trade Center Recovery and Response Command Center, Emergency Mapping and Data Center
Volunteer (2 months ~40 hrs/week).

Article reviews for:

American Journal of Public Health
American Sociological Review
Proceedings of the National Academy of Science
Applied Geography
Computers Environment and Urban System
Demography
Economic Geography
Environment and Planning A
Environment and Planning B
GeoForum
Geography and Environment
International Journal of Geographic Information Science
International Journal of Behavioral Nutrition and Physical Activity

International Journal of Social Research Methodology
Journal of Transportation and Land Use
Journal of Geographical Systems
Journal of the Royal Statistical Society
Natural Hazards Review
Professional Geographer
PlosOne
Regional Science Regional Studies
Social Science and Medicine
Spatial Demography
Sociological Perspectives
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