

RACHEL FRANKLIN

Professor of Geographical Analysis

Centre for Urban and Regional Development Studies
School of Geography, Politics and Sociology
Newcastle University
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Education

PhD **Geography**, University of Arizona, 2004

minor: Spatial Analysis and Remote Sensing

MA **West European Studies**, Indiana University, 1996

BA **French and Political Science**, Indiana University, 1994, *With Distinction, Phi Beta Kappa*

minors: Italian and Spanish

Degré d'Etudes Françaises, Université de Strasbourg, France, 1993

Appointments

Newcastle University

Professor of Geographical Analysis, Centre for Urban and Regional Development Studies (CURDS),
School of Geography, Politics and Sociology, 2018–present

Head, Newcastle Data (Data NUCoRE), 2022–2025

The Alan Turing Institute

Group Leader for Liveability, Science of Cities and Regions Programme, 2023–present

Turing University Lead–Newcastle University, 2021–2023

Brown University

Associate Director, Spatial Structures in the Social Sciences (S4), 2010–2018

Associate Professor (Research), Population Studies, 2015–2018

Assistant Professor (Research), Population Studies, 2010–2015

University of Maryland

Senior Lecturer, School of Public Policy and **Faculty Associate**, Maryland Population Research Center,
2009–2010

Adjunct Lecturer, School of Public Policy, 2004–2009

American Association of Geographers (AAG)

Deputy Director, 2007–2009

U.S. Census Bureau

Statistician Demographer, Population Distribution Branch, Population Division, 2002–2004

Other Appointments

Editor (cross-disciplinary), *Annals of the American Association of Geographers (AAG)*, 2025–present

External Examiner, University College London (UCL), United Kingdom, Undergraduate Geography, 2023–present

Co-Editor, *Spatial Economic Analysis*, Co-Editor, 2024–2025

Visiting Professor, University of Sassari, Sardinia, Italy, November 2019

Visiting Scholar, Brown University, Rhode Island, USA, Population Studies, 2018–present

Visiting Professor, Gran Sasso Science Institute (GSSI), L'Aquila, Italy, Visiting Professor, 2018–present

Editor, *Geographical Analysis*, 2017–present

Executive Director, Western Regional Science Association (WRSA), 2011–2018

Fellowships and Awards

Fellow, Regional Studies Association, 2024
Outstanding Service Award, AAG Spatial Analysis and Modelling Specialty Group, 2023
Fellow, Alan Turing Institute, 2018–2023
Fellow, Western Regional Science Association (WRSA), 2020–present
Fellow, Royal Geographical Society (RGS), 2020–present
David E. Boyce Award for Distinguished Service to the Field of Regional Science, 2015
Student Paper Award, AAG Population Specialty Group, 2003
Benjamin H. Stevens Graduate Fellowship in Regional Science, 2001–2002
Graduate Student Paper Award, AAG European Specialty Group, 2001
Lander MacClintock Award for Excellence in Italian Studies, 1994
Phi Beta Kappa, Gamma of Indiana, elected 1994

Research and Training Grants

“The SDR UK Imagery Data Service for Sustainability, Prosperity and Wellbeing (IMAGO),” U.K. Economic and Social Research Council (ESRC), September 2024–March 2029 (Co-Director with Dani Arribas-Bel, £5,430,913)
“Digital Footprints: Strategic Advice Team,” U.K. Economic and Social Research Council (ESRC), January 2023–December 2024 (PI, £521,228)
“Estimating Pandemic Effects on Publication in Regional Studies Journals,” Regional Studies Association, April–September, 2022 (PI, £28,991)
“Beyond 'Left Behind Places': Understanding Demographic and Socioeconomic Change in Peripheral Regions,” U.K. Economic and Social Research Council (ESRC), March 2021–February 2024 (Co-I; £563,618)
“The Impact of the Environment and Pollution on Cognitive Health (EPOCH): Building the knowledge base through international collaboration,” U.K. Medical Research Council (MRC), October 1, 2020–September 30, 2023 (Co-I; £538,704)
“Centre for Doctoral Training in Geospatial Systems,” U.K. Engineering and Physical Sciences Research Council (EPSRC), April 1, 2019–September 30, 2027 (Co-I; £6,718,389)
“Smart Cities and Inequality,” Alan Turing Institute, October 1, 2018–March 31, 2022 (PI; £268,023)
“A Blueprint for Urban Analytics Research Workshop,” Alan Turing Institute, April 11–12, 2019 (PI/Organizer; £6,020)
“The Spatial Demography of Population Loss in the United States,” Geography and Spatial Sciences (GSS) Program, National Science Foundation (NSF), July 1, 2016–June 30, 2019 (PI; \$243,848)
“The Spatial and Demographic Context and Implications of Uneven Population Change,” Eunice Kennedy Shriver National Institute of Child Health & Human Development, National Institutes of Health (NIH), March 14, 2016–February 28, 2019 (PI; \$152,503)
“The Geography and Policy of Depopulation in the Developed World: A Pilot Study on Germany and the United States,” Richard B. Salomon Faculty Research Award, Brown University, 2012 (PI; \$15,000)
Center for Spatially Integrated Social Science (CSISS) Workshop Scholarship, 2000
University of Arizona Graduate College Fellowship, 1998–99
Foreign Language Area Studies (FLAS) Fellowship in Catalan, 1994–1995

Publications

Books

- Rey, Sergio and Rachel S. Franklin, editors. (2022). *Handbook of Spatial Analysis in the Social Sciences*, Elgar
- Franklin, Rachel S., editor. (2019). *Population, Place, and Spatial Interaction: Essays in Honor of David Plane*. Springer
- Franklin, Rachel S., Eveline S. van Leeuwen, and Antonio Paez, editors. (2018). *Population Loss: The Role of Transportation and Other Issues*. Elsevier
- Ballas, Dimitris, Graham Clarke, Rachel S. Franklin, and Andy Newing. (2017). *GIS and the Social Sciences: Theory and Applications*. London: Routledge

Peer-Reviewed Articles (* denotes student, post-doctoral associate, or intern author)

- Velthuis, Sanne*, Jeroen Royer*, Mehdi Le Petit-Guerin*, Nicolas Cauchi-Duval, Rachel Franklin, Tim Leibert, Danny MacKinnon, Andy Pike. (2024). "Regional varieties of 'left-behindness' in the EU15," *Regional Studies*, <https://doi.org/10.1080/00343404.2024.2417704>
- Nelson, Trisalyn, Amy E. Frazier, Peter Kedron, Somayeh Dodge, Bo Zhao, Michael Goodchild, Alan Murray, Sarah Battersby, Lauren Bennett, Justine I. Blanford, Carmen Cabrera-Arnau, Christophe Claramunt, Rachel Franklin, Joseph Holler, Caglar Koylu, Angela Lee, Steven Manson, Grant McKenzie, Harvey Miller, Taylor Oshan, Sergio Rey, Francisco Rowe, Seda Şalap-Ayça, Eric Shook, Seth Spielman, Wenfei Xu, and John Wilson. (2024). "A Research Agenda for GIScience in a Time of Disruptions," *International Journal of Geographical Information Science*, <https://doi.org/10.1080/13658816.2024.2405191>
- Zied Abozied, Eman*, Caitlin Robinson, Rachel Franklin, Kate Court, and Jack Roberts. (2024). "A spatial decision support framework for equitable sensor network distribution in the smart city," *The Geographical Journal*, <https://doi.org/10.1111/geoj.12605>
- Houlden, Victoria, Caitlin Robinson, Rachel Franklin, Francisco Rowe, and Andy Pike. (2024). "Left Behind Neighbourhoods in England: Where They Are and Why They Matter," *The Geographical Journal*, <https://doi.org/10.1111/geoj.12583>
- Wu, Yu-Tzu, Nutthida Kitwiroon, Sean Beevers, Benjamin Barratt, Carol Brayne, Ester Cerin, Rachel Franklin, Vikki Houlden, Bob Woods, Eman Zied Abozied, Matthew Prina, and Fiona Matthews. (2024). "The longitudinal associations between ambient air pollution exposure and dementia in the UK: results from the cognitive function and ageing study II and Wales," *BMC Public Health*, <https://doi.org/10.1186/s12889-024-18723-3>
- Sanderson, Rachael*, Rachel Franklin, Danny MacKinnon, and Joe Matthews. (2024). "Left Out and Invisible?: Exploring Social Media Representation of 'Left Behind Places'," *GeoJournal*, <https://link.springer.com/article/10.1007/s10708-024-11010-z>
- Franklin, Rachel. (2024). "Quantitative Methods III: Strength in Numbers?," *Progress in Human Geography*, <https://doi.org/10.1177/03091325231210512>
- Sanderson, Rachael*, Rachel Franklin, Danny MacKinnon, and Joe Matthews. (2024). "Left Behind and Left Out: Evaluating (Dis)connections in the Spatially Focused Migration Network of England and Wales," *Population, Space and Place*, <https://doi.org/10.1002/psp.2722>
- Park, Gainbi* and Rachel Franklin. (2023). "The Changing Demography of Hurricane At-Risk Areas in the United States (1970–2018)," *Population, Space and Place*, <https://doi.org/10.1002/psp.2685>
- Pike, Andy, Vincent Béal, Nicolas Cauchi-Duval, Rachel Franklin, Nadir Kinossian, Thilo Lang, Tim Leibert, Danny MacKinnon, Max Rousseau, Jeroen Royer, Loris Servillo, John Tomaney, and Sanne Velthuis*. (2023). "'Left behind places': A geographical etymology," *Regional Studies*, <https://doi.org/10.1080/00343404.2023.2167972>
- Franklin, Rachel. (2023). "Quantitative methods II: Big Theory," *Progress in Human Geography*, <https://doi.org/10.1177/03091325221137334>

- Robinson, Caitlin*, Rachel S. Franklin, and Jack Roberts. (2022). "Optimising for equity: Sensor coverage, networks and the responsive city", *The Annals of the American Association of Geographers*, <https://doi.org/10.1080/24694452.2022.2077169>
- Wallace, Rosalind*, Rachel Franklin, Susan Grant-Muller, Alison Heppenstall, and Victoria Houlden. (2022). "Estimating the Social and Spatial Impacts of Covid Mitigation Strategies in United Kingdom Regions: Synthetic Data and Dashboards," *Cambridge Journal of Regions, Economy and Society*, <https://doi.org/10.1093/cjres/rsac019>
- Wu, Yu-Tzu, Andrew Kingston, Victoria Houlden, and Rachel Franklin. (2022). "The longitudinal associations between proximity to local grocery shops and functional ability in the very old living with and without multimorbidity: results from the Newcastle 85+ study." *Archives of Gerontology and Geriatrics*, <https://doi.org/10.1016/j.archger.2022.104703>
- Franklin, Rachel S., Elizabeth C. Delmelle, Clio Andris, Tao Cheng, Somayah Dodge, Janet Franklin, Alison Heppenstall, Mei-Po Kwan, WenWen Li, Sara McLafferty, Jennifer A. Miller, Darla K. Munroe, Trisalyn Nelson, Özge Öner, Denise Pumain, Kathleen Stewart, Daoqin Tong, Elizabeth A. Wentz. (2022). "Making Space in Geographical Analysis," *Geographical Analysis*, <https://doi.org/10.1111/gean.12325>
- Franklin, Rachel. (2022). "Quantitative methods I: Reckoning with uncertainty," *Progress in Human Geography*, <https://doi.org/10.1177/03091325211063635>
- Robinson, Caitlin* and Rachel S. Franklin. (2021). "The sensor desert quandary: What does it mean (not) to count in the smart city?," *Transactions of the Institute of British Geographers*, 46(2), 238-254, doi.org/10.1111/tran.12415
- Franklin, Rachel S., Victoria Houlden*, Caitlin Robinson*, Daniel Arribas-Bel, Elizabeth C. Delmelle, Urška Demšar, Harvey J. Miller, and David O'Sullivan. (2021). "Who Counts? Gender, Gatekeeping, and Quantitative Human Geography," *The Professional Geographer*, 73(1), 48-61, doi.org/10.1080/00330124.2020.1828944
- Franklin, Rachel S. (2021). "Geographical Analysis at Midlife," *Geographical Analysis*, 53(1), 47-60, doi.org/10.1111/gean.12251
- Franklin, Rachel S. (2021). "The Demographic Burden of Population Loss in U.S. Cities, 2000–2010," *Journal of Geographical Systems*, 23(2), 209-230, doi: 10.1007/s10109-019-00303-4
- Franklin, Rachel S. (2020). "I come to bury (population) growth, not to praise it," *Spatial Economic Analysis*, 15(4), 359-373, doi: 10.1080/17421772.2020.1802056
- Seymour, Eric*, K. Arthur Endsley, and Rachel S. Franklin. (2020). "Differential drivers of rent burden in growing and shrinking cities," *Applied Geography*, doi: 10.1016/j.apgeog.2020.102302
- Bagchi-Sen, Sharmistha, Rachel S. Franklin, Peter Rogerson, and Eric Seymour*. (2020). "Urban Inequality and the Demographic Transformation of Shrinking Cities: The Role of the Foreign Born," *Applied Geography*, doi: 10.1016/j.apgeog.2020.102168
- Franklin, Rachel S. and Eveline S. van Leeuwen. (2018). "For Whom the Bells Toll: Alonso and a Regional Science of Decline," *International Regional Science Review*, 41(2), 134–151, doi: 10.1177/0160017616675917
- Bellman, Benjamin*, Seth E. Spielman, and Rachel S. Franklin. (2018). "Local Population Change and Variations in Racial Integration in the United States, 2000–2010," *International Regional Science Review*, 41(2), 233–255, doi: 10.1177/0160017616665669
- Motesharrei, Safa, Jorge Rivas, Eugenia Kalnay, Ghassem R. Asrar, Antonio J. Busalacchi, Robert F. Cahalan, Mark A. Cane, Rita R. Colwell, Kuishuang Feng, Rachel S. Franklin, Klaus Hubacek, Fernando Miralles-Wilhelm, Takemasa Miyoshi, Matthias Ruth, Roald Sagdeev, Adel Shirmohammadi, Jagadish Shukla, Jelena Srebric, Victor M. Yakovenko, and Ning Zeng. (2016). "Modeling Sustainability: Population, Inequality, Consumption, and Bidirectional Coupling of the Earth and Human Systems," *National Science*

Review, doi.org/10.1093/nsr/nww081, 3(4), 470–494

- Franklin, Rachel S. and Alessandra Faggian. (2014). "College Student Migration in New England: Who Comes, Who Goes, and Why We Might Care," *Northeastern Geographer*, 6, 45–60
- Faggian, Alessandra and Rachel S. Franklin. (2014). "Human Capital Redistribution in the USA: The Migration of the College-Bound," *Spatial Economic Analysis*, doi.org/10.1080/17421772.2014.961536, 9(4), 376–395
- Kourtit, Karima, Peter Nijkamp, Rachel S. Franklin, and Andrés Rodríguez-Pose. (2014). "A Blueprint for Strategic Urban Research: The *Urban Piazza*," *Town Planning Review*, doi.org/10.3828/tpr.2014.7, 85(1), 97–126
- Ruth, Matthias and Rachel S. Franklin. (2014). "Livability for All? Conceptual Limits and Practical Implications," *Journal of Applied Geography*, doi.org/10.1016/j.apgeog.2013.09.018, 49, 18–23
- Franklin, Rachel S. (2014). "An Examination of the Geography of Population Composition and Change in the United States, 2000–2010: Insights from Geographical Indices and a Shift-Share Analysis," *Population, Space and Place*, doi.org/10.1002/psp.1744, 20(1), 18–36
- Cahill, Meagan E. and Rachel S. Franklin. (2013). "The Minority Homeownership Gap, Home Foreclosure, and Nativity: Evidence from Miami-Dade County," *Journal of Regional Science*, doi.org/10.1111/jors.12014, 53: 91–117
- Franklin, Rachel S. (2013). "The Roles of Population, Place, and Institution in Student Diversity in American Higher Education," *Growth and Change*, doi.org/10.1111/grow.12001, 44: 30–53
- Franklin, Rachel S. and Jim Ketchum. (2013). "Working in a Landscape of Recession and Expansion: Academic 'Jobs in Geography' in the United States, 1990–2011," *The Professional Geographer*, doi.org/10.1080/00330124.2012.660455, 65: 205–220
- Franklin, Rachel S. (2012). "Benchmarking Student Diversity at Public Universities in the United States: Accounting for State Population Composition," *The Annals of Regional Science*, doi.org/10.1007/s00168-011-0454-4, 49: 355–372
- Franklin, Rachel S., David A. Plane, and Warren Gill. (2012). "Documenting Regional Science Exceptionalism: What's Special About WRSA?" *The Annals of Regional Science*, doi.org/10.1007/s00168-011-0477-x, 48: 391–403
- Franklin, Rachel S. and Matthias Ruth. (2012). "Growing Up and Cleaning Up: The Environmental Kuznets Curve Redux," *Journal of Applied Geography*, doi.org/10.1016/j.apgeog.2010.10.014, 32: 29–39
- Ruth, Matthias, Eugenia Kalnay, Ning Zeng, Rachel S. Franklin, Jorge Rivas, and Fernando Miralles-Wilhelm. (2011). "Sustainable Prosperity and Societal Transitions: The Science of Long-term Modeling and the Need for Anticipatory Management," *Environmental Innovation and Societal Transitions (EIST)*, doi.org/10.1016/j.eist.2011.03.004, 1: 160–165
- Franklin, Rachel S. and David A. Plane. (2006). "Pandora's Box: The Potential and Peril of Migration Data from the American Community Survey," *International Regional Science Review*, doi.org/10.1177/0160017606289895, 29: 231–246
- Franklin, Rachel and David A. Plane. (2004). "A Shift-Share Method for the Analysis of Regional Fertility Change: An Application to the Decline in Childbearing in Italy, 1952–1991," *Geographical Analysis*, doi.org/10.1111/j.1538-4632.2004.tb01120.x, 36: 1–20
- Waldorf, Brigitte and Rachel Franklin. (2002). "Spatial Dimensions of the Easterlin Hypothesis: Fertility Variations in Italy," *Journal of Regional Science*, doi.org/10.1111/1467-9787.00272, 42: 549–578

Mulligan, Gordon, Rachel Franklin, and Adrian Esparza. (2002). "Housing Prices in Tucson, Arizona," *Urban Geography*, doi.org/10.2747/0272-3638.23.5.446, 23: 446–470

Book Chapters, Working Papers, Blog Contributions, and Other Publications

Franklin, Rachel. (2025). "All Theories Are Wrong but Some Are Useful," *Dialogues in Human Geography*, <https://doi.org/10.1177/20438206241278704>

Velthuis, Sanne, Mehdi Le Petit-Guerin, Jeroen Royer, Tim Leibert, Nicolas Cauchi-Duval, Rachel S. Franklin, and Danny MacKinnon. (2024). "Regional Migration in Economically Lagging Regions in the UK, France, and Germany, CURDS Working Paper, <https://doi.org/10.31235/osf.io/t4vbd>

Franklin, Rachel. (2024). "[The very model of a modern data infrastructure](#)," ESRC SDR UK World of Smart Data Blog

Malleson, Nick, Rachel Franklin, Daniel Arribas-Bel, Tao Cheng, and Mark Birkin. (2024). "Digital twins on trial: Can they actually solve wicked societal problems and change the world for better?," *Environment and Planning B*, <https://doi.org/10.1177/23998083241262893>

Cook, Di, Rachel Franklin, Cagatay Turkay, Mari-Cruz Villa-Uriol, and Levi Wolf. (2024). [Humans all the way down: statistical reflection and self-critique for interactive data analysis](#), TCMF 2024, The Alan Turing Institute

Franklin, Rachel. (2024). "[Not the Data Revolution We Want, but Maybe the Data Revolution We Need](#)," SubStack Newsletter

Franklin, Rachel. (2023). "[Waking Up Early to Ponder the Future of Urban Analytics](#)," SubStack Newsletter

Velthuis, Sanne, Mehdi Le Petit-Guerin, Jeroen Royer, Nicolas Cauchi-Duval, Rachel S Franklin, Tim Leibert, Danny MacKinnon, Andy Pike, (2023). "The characteristics and trajectories of 'left behind places' in the EU15", CURDS Working Paper, <https://osf.io/preprints/socarxiv/t96fa/>

Rey, Sergio J. and Franklin, Rachel S. (2022). "Introduction: Spatial analysis and the social sciences in a rapidly changing landscape," In *Handbook of Spatial Analysis in the Social Sciences* (pp. xi-xx). Edward Elgar Publishing, <https://doi.org/10.4337/9781789903942.00006>

Royer, Jeroen, Sanne Velthuis, Mehdi Le Petit-Guerin, Rachel S. Franklin, Tim Leibert, Nicolas Cauchi-Duval, Danny MacKinnon, and Andy Pike, (2022). "Regional travel times to services of general interest in the EU15," CURDS Working Paper, DOI: 10.31235/osf.io/c2bvh

Velthuis, Sanne, Jeroen Royer, Mehdi Le Petit-Guerin, Nicolas Cauchi-Duval, Rachel S. Franklin, Tim Leibert, Danny MacKinnon, and Andy Pike. (2022). "Geographically uneven structural change in EU15 regions from 1980 to 2017: a cluster analysis," CURDS Working Paper, DOI: 10.31235/osf.io/xsgf9

Franklin, Rachel S. and Jacques Poot. (2021). "Guest Editorial: Spatial demography in regional science," *Journal of Geographical Systems*, DOI: 10.1007/s10109-021-00354-6

Franklin, Rachel S. (2021). "Introduction to the Fiftieth Anniversary Special Issue: Happy Birthday, *Geographical Analysis!*," *Geographical Analysis*, doi.org/10.1111/gean.12270

Franklin, Rachel S. (2020). "Why We Count: Geographers and the US Decennial Census," Ohio State University, Department of Geography, Census 2020 Blog Series. <https://u.osu.edu/geographyblog/2020/10/14/why-we-count-geographers-and-the-us-decennial-census/>

Franklin, Rachel S. (2019). "Interpreting the Geography of Human Capital Stock Variations," *Population, Place, and Spatial Interaction: Essays in Honor of David Plane*. Springer. https://doi.org/10.1007/978-981-13-9231-3_5

Franklin, Rachel S. (2 April 2019). "What We Talk About When We Talk About Depopulation," The Regional Studies Blog. <https://blog.regionalstudies.org/what-we-talk-about-when-we-talk-about-depopulation/>

- Franklin, Rachel S., Eveline van Leeuwen, and Antonio Paez. (2018). "Transportation Where People Leave: An Introduction," *Population Loss: The Role of Transportation and Other Issues*, Rachel S. Franklin, Eveline van Leeuwen, and Antonio Paez, eds., Elsevier. doi.org/10.1016/bs.atpp.2018.09.008
- Franklin, Rachel S. (2017). "Shrinking Smart: U.S. Population Decline and Footloose Human Capital," *Demographic Transition, Labour Markets and Regional Resilience*, Cristina Martinez, Tamara Weyman, and Jouke van Dijk, eds., Springer
- Franklin, Rachel S. and David A. Plane. (2017). "The View from Over the Hill: Regional Research in a Post-Demographic Transition World," *Regional Research Frontiers: The Next 50 Years*, Randall Jackson and Peter Schaeffer, eds., Springer. doi.org/10.1007/978-3-319-50547-3_20
- Franklin, Rachel S. (2017). "Words of congratulation from one side of the Pacific Rim to the other," *Asia-Pacific Journal of Regional Science*, doi:10.1007/s41685-017-0025-5
- Faggian, Alessandra, Jonathan Corcoran, and Rachel S. Franklin. (2017). "Human capital migration and salaries: an examination of US college graduates," *Graduate Migration and Regional Development: An International Perspective*, Jonathan Corcoran and Alessandra Faggian, eds., Edward Elgar, doi.org/10.4337/9781784712167.00014
- Franklin, Rachel S. (2014). "The Landscape of Population Decline in the United States: Considering the roles of the demographic components of change and geography," *Shrinking Cities: A Global Perspective*, Richardson, Harry W. and Chang Woon Nam, eds., 74–85, Routledge
- Franklin, Rachel S. (2013). "Population Geography," *Oxford Bibliographies in Geography*. Available at: <http://www.oxfordbibliographies.com/obo/page/geography#4>
- Franklin, Rachel S. (2012). "Demographic Dimensions: Describing Populations," *21st Century Geography: A Reference Handbook*, Stoltman, Joseph P. (Ed.), Sage Publications
- Schachter, Jason P., Rachel S. Franklin, and Marc J. Perry. (2003). "Migration and Geographic Mobility in Metropolitan and Nonmetropolitan America: 1995 to 2000," U.S. Census Bureau, Census 2000 Special Reports, CENSR-9 (available as PDF download at: <http://www.census.gov/population/www/cen2000/migration.html>)
- Franklin, Rachel S. (2003). "Migration of the Young, Single, and College Educated: 1995 to 2000," U.S. Census Bureau, Census 2000 Special Reports, CENSR-12 (available as PDF download at: <http://www.census.gov/population/www/cen2000/migration.html>)
- Franklin, Rachel S. (2003). "Domestic Migration Across Regions, Divisions, and States: 1995 to 2000," U.S. Census Bureau, Census 2000 Special Reports, CENSR-7 (available as PDF download at: <http://www.census.gov/population/www/cen2000/migration.html>)
- Contributor, (2000). "Arizona-Sonora Region: Indicators of Economic Progress," prepared by the Office of Economic Development at the University of Arizona

Book Reviews

- Franklin, Rachel S. (2016). Book review of "Running the Numbers: A Practical Guide to Regional Economic and Social Analysis," by John Quintero. M.E. Sharpe, 2014, *Journal of Planning Education and Research* (JPER)
- Franklin, Rachel S. (2000). Book review of "Systems of Housing Supply and Housing Production in Europe," by Andrew Golland. *Papers in Regional Science*, 79, 343–345

Teaching

School of Geography, Politics and Sociology, Newcastle University

Mapping the City (GEO 3130): Module leader
Local and Regional Development (GEO 3114): lecture
Geographical Inequalities and Policy (GEO 8030): lecture
Local and Regional Development: Methodology, Analysis and Statistics (GEO 8007): lecture

Spatial Structures in the Social Sciences (S4), Brown University

S4 GIS Institute

Department of Sociology, Brown University

Geographical Analysis of Society (SOC 1871W)
GIS and Spatial Analysis for the Social Sciences (SOC 2612)
Principles and Methods of GIS (SOC 1340)
Applications in GIS (SOC 2961B)

School of Public Policy, University of Maryland

Quantitative Methods in Policy Analysis (PUAF 610)
Quantitative Analysis of Policy Issues (PUAF 611)

Department of Geography and Regional Development, University of Arizona

Population Geography (GEOG 367)
Introduction to Human Geography (discussion section instructor) (INDV 102)

Invited Teaching

Gran Sasso Science Institute (GSSI), L'Aquila, Italy

GIS Short Course: Data Visualization and Mapping, May 20–24, 2024
Visualizing (Spatial) Data: Theory and Practice, June 19–23, 2023
Data Visualization and Mapping, June 13–17, 2022; May 10–14, 2021 (led by Sara Caramaschi)
GIS Short Course, June 17–20, 2019; March 26–29, 2018
RSAI-GSSI Summer School of Advanced Economic Geography, July 2–8, 2017

University of Sassari, Sardinia, Italy

GIS Short Course, November 26–29, 2019

30th ERSAs Summer School: GIS and Regional Science: Theory and Applications, University of the Aegean, Lesvos Island, Greece, July 9–15, 2017

Student Supervision and Examination

PhD

Rachael Sanderson (2024), Geospatial Systems Centre for Doctoral Training (CDT), Newcastle University (lead supervisor)
Clara Peiret-García (current), Geospatial Systems Centre for Doctoral Training (CDT), Newcastle University (lead supervisor)
Júlia Maria Novaes Dias (2024), Economics (CEDEPLAR/UFMG), Federal University of Minas Gerais, Brazil (external committee member)
Céline Van Migerode (current), Urban Studies, KU Leuven, Belgium (external committee member)
Benjamin Bellman (2020), Sociology, Brown University (committee member)

Master's

Rachael Sanderson (2020), MRes Geospatial Data Science, Newcastle University
Clara Peiret-García (2021), MRes Geospatial Data Science, Newcastle University
Edwina Williams (2013), Master of Public Health, Brown University
Nirdesh Tuladhar (2015), Master of Public Health, Brown University (reader)

Undergraduate Thesis, Brown University

Mika Matsuno, Sociology, 2018 (advisor); Hannah Pullen-Blasnik, Sociology, 2016 (second reader); Margaret Livingstone, Urban Studies, 2016 (second reader); Valeria Fantozzi, Development Studies, 2014 (second reader); Ashlyn Koga, Sociology, 2014 (second reader); Jane Furey, Sociology, 2014 (second reader)

Scholarly Oversight Committee, Medical School, Brown University

Natalie Kissoon, 2013–2015

External PhD Examiner

Andra Sonea, University of Warwick (External Examiner) (December 2024)
Laura Sheppard, University College London (UCL) (External Examiner) (February 2024)
Niall Newsham, University of Liverpool (External Examiner) (February 2024)
Nan Cui, University of Leeds, United Kingdom (External Examiner) (June 2023)
Petra de Jong, University of Groningen, Netherlands (Assessment Committee) (Sept. 2021)
Richard Rijns, University of Groningen, Netherlands (Examining Committee) (Oct. 2020)
Ana Petrović, TU Delft, Netherlands (Doctoral Committee) (Sept. 2020)
Paola Proietti, Gran Sasso Science Institute (GSSI), L'Aquila, Italy (Feb. 2019)
Therese Norman, Jönköping International Business School, Sweden (Sept. 2017)

Internal PhD Examiner

Eleojo Abubakar, Geography, 2020
Aare Puussaar, School of Engineering/Digital Civics CDT, 2020

Post-Doctoral Research Associate Supervision/Mentorship

Jessica Crosby (2023–present)
Gainbi Park, Lecturer, Newcastle University (2021–2022)
Eman Zied, Postdoctoral Research Associate, Newcastle University (2021–2022)
Victoria Houlden, Lecturer, University of Leeds (2019–2020)
Caitlin Robinson, Lecturer, University of Bristol (2019–2020)
Eric Seymour, Assistant Professor, Rutgers University (2017–2019)

Invited Keynotes and Lectures

“Spatial Is Special,” Distinguished Getis Lecture in Spatial Analysis, Department of Geography, San Diego State University, California, November 22, 2024
“21st Century Geographical Methods for Timeless Spatial Inequality Challenges,” Sociotechnical Foundations of GeoAI and Spatial Data Science Workshop, Vienna, Austria, October 26–27, 2024
“The Answer to the Ultimate (Demographic) Question of Life, the Universe, and Everything,” Keynote, IGU Applied Population Geography Research Workshop, University of the Aegean, Lesvos, Greece, September 19, 2023
“The changing data ecosystem in demography. Non-traditional data sources,” Plenary, with Alice Reid and Andy Tatum, British Society for Population Studies (BSPS) 2022 Conference, Winchester, England, September 5, 2022
“Choose Your Own Adventure: Charting a Fulfilling Professional Path in the Geospatial Sciences,” Keynote, TRELIS 2022 Workshop, University Consortium for Geographic Information Science (UCGIS), Minnowbrook Conference Center, Blue Mountain Lake, New York, June 6, 2022
“Locating the “Left Behind”—Multidimensionality, Scale, and the Role of Demographic Change,” Keynote, From Depopulation to Left-Behind Places: New Challenges, New Policies Workshop, Universitat Jaume I de Castellón (UJI), Castellón, Spain, May 31, 2022

- “Sensing Inequality: Smart Cities, Sensor Deserts, and Equitable Decision-Making,” Keynote Address, The 2021 European Colloquium on Theoretical and Quantitative Geography (ECTQG), Manchester, November 5, 2021 (virtual)
- “Of Decisions and Deserts: Helping Cities Be Smart, Just, and Good,” Keynote Address, 24th Association of Geographic Information Laboratories in Europe (AGILE) Conference, June 11, 2021 (virtual)
- “Migration, Population Loss, and the Smaller Picture,” Keynote Address, International and Internal Migration: Challenges and Opportunities in Europe Workshop, Gran Sasso Science Institute (GSSI), L’Aquila, Italy, January 17, 2020.
- “Inequality and the Smart City,” Keynote Address, GeoComputation 2019, Queenstown, New Zealand, September 20, 2019.
- “I Come to Bury Growth, Not to Praise It,” Keynote Address, Regional Studies Association Annual Conference, Santiago de Compostela, Spain, June 5, 2019.
- “Loss and Space: Scale, Measurement, and the Implications of Unequal Population Change,” Keynote Address, 40th Annual Conference of the Australia New Zealand Regional Science Association International (ANZRSIA), Melbourne, Australia, December 5, 2016.

Invited Talks and Panels

- “Five Red Herrings: The Role of Data, Data Science, and AI in Population Health Research,” Population Health Sciences Institute (PHSI) Christmas Research Event, Newcastle University, December 11, 2024
- “Mind the Gap: Estimating present and future heat exposure on the London Tube,” METTRANS, Sol Price School of Public Policy, University of Southern California, September 25, 2024
- “Don’t Panic!,” 2024 Southern California Demographic Workshop, Southern California Association of Governments (SCAG), Los Angeles, California, September 24, 2024
- “Sequence Analysis and Clustering Methods for Identifying Left Behind Places,” GIScience Group, Department of Geography, University of Zurich, February 7, 2024
- “Spatial Inequality and the Smart City,” Bartlett School of Planning Public Lecture, UCL, London, January 25, 2024
- “Data, Data Science, and the Persistent Challenge of Spatial Inequality,” Darlington Economic Campus, January 18, 2024
- “Disruptions, Engagement, and GIScience Solutions,” Spatial Data Science in an Age of Scientific Disruption Workshop, Santa Barbara, California, December 7–8, 2023
- “Lost in translation? Connecting the conceptual and methodological to locate the ‘Left Behind’,” CIRCLE, Lund University, Sweden, October 4, 2023
- “Thinking about ‘progress’ in quantitative methods,” Department of Human Geography, Lund University, Sweden, October 4, 2023
- “Lost in Translation?: Connecting the conceptual and methodological to locate the ‘Left Behind,’” Intersections Seminar, Department of Geography and Planning, University of Toronto, April 28, 2023
- “How have place-based policies evolved to date and what are they now?,” Invited Contribution, Workshop, OECD, Paris, April 14, 2023
- “Future Directions for Urban Analytics and City Science,” Panel, *Annual Meeting of the Association of American Geographers*, Denver, CO, March 23–27, 2023
- “Deciding Who Counts in the Smart City: Sensor coverage, networks and the responsive city,” Amsterdam Institute for Advanced Metropolitan Solutions (AMS), February 1, 2023
- “Lost in Transition? Connecting the conceptual and methodological to locate the ‘Left Behind’,” Development Economics Group, Wageningen University and Research, January 31, 2023

- “Lost in Translation? Connecting the conceptual and methodological to locate the ‘Left Behind’,” Urban Big Data Centre (UBDC), University of Glasgow, January 24, 2023
- “Estimating Pandemic Effects on Publication in *Regional Studies* Journals,” CURDS Seminar, Newcastle University, December 8, 2022 (with Gainbi Park)
- “The (Business) Case for Data,” 21st IFIP Conference e-Business, e-Services, and e-Society (I3E2022), Doctoral and Early Career Researcher Symposium, Newcastle University, September 12, 2022
- “Discoveries from the Lab,” Opening Panel, AI UK, London, March 22, 2022
- “Spatial Inequality and the Smart City,” Urban Analytics Programme, Monthly Meet Up, Alan Turing Institute, February 28, 2022 (virtual)
- “Mind the Gap! Today’s Data for Tomorrow’s Innovation,” Newcastle Discover Talks–Data, Newcastle University, January 27, 2022 (virtual)
- “Spatial Inequality and the Smart City,” Turing Fellows Project Seminar Series: Urban Analytics, October 7, 2021 (virtual)
- “Who Counts in the Smart City?,” Citizens Collective, TU Delft, September 15, 2021 (virtual)
- “Patterns of Demographic Change,” Symposium on Legacy Cities and Left-Behind Places: Comparative Analysis, Policy and Practice, organized by Lincoln Institute for Land Policy and the Bartlett School of Planning at UCL, June 17, 2021 (virtual)
- “Sensor Placement, Inequality, and Informed Decision Making in the Smart City,” GIScience Center, Department of Geography, University of Zurich, May 25, 2021 (virtual)
- “The Spatial Demography of Depopulation,” Geography, Queen’s University Belfast, May 20, 2021 (virtual)
- “Spatial (Data) is Special: Creating Space in Social Science and Humanities Research,” Demystifying Data Workshop, Institute of Social Science, Newcastle University, March 25, 2021 (virtual)
- “The Spatial Demography of Depopulation: The U.S. Example,” School of Geography, Geology and the Environment, University of Leicester, January 13, 2021 (virtual)
- “Optimising for Equity: Sensor coverage, networks, and the responsive city,” Bartlett Centre for Applied Spatial Analysis (CASA), University College London (UCL), December 2, 2020 (virtual)
- “The Geography of Depopulation in the United States,” Charlas de Economía (Economics Seminars), Universidad Icesi, Colombia, November 5, 2020. (virtual)
- “Sensing Inequality: Smart Cities, Sensor Deserts, and the Politics of Decision-Making,” Lectures in Planning (LiPS), Columbia University, Graduate School of Architecture, Planning and Preservation (GSAPP), September 29, 2020. (virtual)
- “Smart Cities and Spatial Inequality,” Social Sciences Webinar Series, Gran Sasso Science Institute (GSSI), May 12, 2020. (virtual)
- “Friendly for the Ages: Demographic Change and Inclusive Rural Policies,” OECD Rural Development Conference, Seoul, South Korea, September 25, 2019.
- “Population Loss in a U.S. Context: Where, Who, How?” University of Bristol, School of Geographical Sciences, March 25, 2019.
- “Social Justice, Inequality, and Technology: Something Old, Something New, Something Borrowed, Something True,” Not Equal Launch Symposium, London, January 29, 2019.
- “The Spatial Demography of Population Loss: Insights from the United States,” JDS International Seminar, University of Tsukuba, Japan, January 24, 2019.
- “What Kind of Loss for What Kind of Place?: A Typology of Demographic Decline for U.S. Counties,” Department of Geography and Planning, University of Liverpool, 11 December 2018.

- "The Geography of Population Loss: A Typology of Decline for U.S. Counties," Newcastle University Geomatics and Water Resources Seminar, Newcastle University, 10 December 2018.
- "Growth and Decline: Capturing the Spatial Dimensions of Decline," Urban-Rural Synergies Seminar, University of Wageningen, The Netherlands, September 14, 2018.
- "Capturing the Spatial Dimensions of Decline: Metrics for Characterizing Population Loss," Department of Geography, University of California, Santa Barbara, March 12, 2018.
- "Landscapes of Loss: Depopulation and the Roles of Scale, Context, and Measurement," School of Geography and Earth Sciences, McMaster University, Canada, March 7, 2018.
- "The Geography of Population Loss in the U.S.: New Insights from a Typology of Decline," School for Environment and Sustainability, University of Michigan, November 29, 2017.
- "Regions and Populations: Demographic Change and Resilience," presented in The Regional Dimension of Inequality: Territorial Responses in a Rapidly Changing Economic Environment, European Week of Regions and Cities 2017, October 10, 2017, Brussels, Belgium.
- "Going with the Flow? Spatial Focusing and the State-to-State Migration Behavior of College-Bound Students in the United States," Jönköping International Business School, Jönköping University, Sweden, September 28, 2017.
- "Disparities in Decline: The Spatial and Demographic Burden of Population Loss in U.S. Cities," ERSA Policy Day: Growing Inequalities and Their Regional Implications, 57th *European Congress of the Regional Science Association International*, Groningen, The Netherlands, August 31, 2017.
- "Covering the Losses: Quantifying the Burden of Decline in Shrinking U.S. Cities," Department of Geography, University of Connecticut, October 28, 2016.
- "Impacts of Uneven Population Change in the United States and the Demographic Burden of Decline," Population Geography and the Future of Urbanization in China, Symposium for Commemorating the 80th Anniversary of the Discovery of Hu Huanyong Line, East China Normal University, Shanghai, China, November 6–8, 2015.
- "The Demographic Burden of Population Decline in U.S. Cities," Regional Research Institute, West Virginia University, Morgantown, September 24, 2015.
- "GIS and Spatial Analysis for Population and Development Research," BIARI Population and Development, Brown University, June 2015; June 2014; June 2013; June 2012.
- "Finding the True Migration Magnets: Decomposing the Sources of Human Capital Stock Increases in U.S. Metropolitan Areas," Department of Geography and Planning, University of Toledo, April 17, 2015.
- "GIS and Unique Solutions," BIARI Connections and Flows, Brown University, June 2014.
- "College Student Migration in Southern New England: Who Comes, Who Goes, and Why We Might Care," presented in special session, *Who Do We Plan For – The Demographics of Southern New England*, Southern New England American Planning Association (SNEAPA) Conference, Worcester, Massachusetts, October 17, 2013.
- "Shrinking Cities and the Migration of the College Educated," Beijing Forum 2013, Beijing, China, October 31–November 3, 2013.
- "Urban Core Versus Hinterland: Some Thoughts on the Spatial Context of Population Change," Workshop on the Future of the 'New Urban World': Economic, Social and Spatial Transformation of Cities, Naples, Italy, May 2–3, 2013.
- "A Geography of Contrasts: Postwar Population Change in the United States," Showcasing the Digital Scholarship Lab Speaker Series, Brown University, April 4, 2013.

- “Urban Decline in a Wider Context of Growth: On the Nature of Declining Places,” Beijing Forum 2012, Beijing, China, November 1–4, 2012.
- “Reading Demographic Tea Leaves: Population Change and Urban Futures,” Workshop on Future Challenges of the New Urban World: What Model of Development for the Moroccan City? Institut Royal des Etudes Stratégiques (IRES), Rabat, Morocco, October 1–2, 2012.
- “Livability for All? A Meditation on First Principles and the Potential Importance of Life Course Considerations,” The New Urban World Session, 52nd European Congress of the Regional Science Association International (RSAI), Bratislava, Slovakia, August 21–25, 2012.
- “The Geography of Human Capital Potential: Exploring the Dynamics of College Student Migration in the United States,” Department of Geography, University of Connecticut, March 30, 2012.
- “Homeownership, Home Foreclosure, and Nativity: Evidence from Miami-Dade County, Florida,” Workshop on Immigration, Federal Reserve Bank of Chicago, Illinois, November 2011.
- “Measuring Population Composition, Concentration, and Heterogeneity: The United States in the New Millennium,” Department of Geography, National University of Singapore, August 12, 2011.
- “Spatial Analysis and Inequality,” BIARI Development and Inequality Institute, Brown University, June 15, 2011.
- “The Geography of Student Diversity in American Higher Education: An Evaluation and Explanation,” IGU 2010 Conference on Wellbeing, Innovation and Spatial Transformation, University of Groningen, The Netherlands, July 1–4, 2010.
- “Using Migration Flows to Develop Spatial Weights Matrices: An Italian Fertility Example,” Spatial Analysis Group, Maryland Population Research Center, University of Maryland, March 31, 2006.
- “Assessing the Changing Geography of Italian Regional Fertility,” Geography Department, University of Maryland, College Park, 2003–2004 Seminar Series, September 11, 2003.
- “Adding Value to Demographic Research in Mauritius,” at the Mauritius Environmental Resource Management and Industrial Development (MERMAID) Workshop, Mauritius, June 2001.

Conference Presentations

- “Lost in transition? Trajectories of regional ‘left-behindness’ in the EU15 from 1982 to 2017,” (co-authored with Mehdi Le Petit-Guerin, Sanne Velthuis, Jeroen Royer, Nicolas Cauchi-Duval, Tim Leibert, Danny MacKinnon, and Andy Pike), *Annual Meeting of the Association of American Geographers*, Denver, CO, March 23–27, 2023.
- “Get Smart: Helping cities be intelligent about sensor placement,” Alan Turing Institute, AIUK Smart Cities Session, September 28, 2020. (virtual)
- “Depopulation and the Demographic Components of Change: Exploring the Connections in a United States Context,” (co-authored with Eric Seymour and Will Violette) *59th European Congress of the Regional Science Association International*, Lyon, France, August 27–30, 2019.
- “Regional Inequalities in the Role of Immigrants in Offsetting Demographic and Economic Decline,” (co-authored with Sharmistha Bagchi-Sen, Peter Rogerson, and Eric Seymour) *47th Annual Conference of the RSAI British and Irish Section*, University of Cambridge, July 1–18, 2019.
- “Smart city technologies and urban demography: Inequality and sensor coverage deserts,” (co-authored with Caitlin Robinson, David Herbert, Philip James, and Stuart Barr) *10th Annual International Population Geographies Conference*, Loughborough University, July 1–3, 2019.
- “The Demographic Dividends of Decline: Population Loss and Inequality in U.S. Counties, 1990–2010,” (co-authored with Eric Seymour) *Annual Meeting of the Association of American Geographers*, Washington, DC, April 3–7, 2019.

- “The Socio-Economic and Demographic Impacts of Population Loss in the United States in Recent Decades,” (co-authored with Eric Seymour) *65th Annual North American Meetings of the Regional Science Association International*, San Antonio, Texas, November 7–10, 2018.
- “Wrestling Small to the Ground: Spatial Analytics for Urban Population Loss,” (co-authored with Eric Seymour), *58th European Congress of the Regional Science Association International*, Cork, Ireland, August 28–31, 2018.
- “The Landscape of Loss: Connecting County-Level Depopulation and the Demographic Components of Change,” (co-authored with Eric Seymour and William Violette) *Annual Meeting of the Association of American Geographers*, New Orleans, Louisiana, April 10–14, 2018.
- “The Dimensions of Decline: Measuring Urban Population Loss,” (co-authored with Eric Seymour) *2018 Annual Meeting of the Population Association of America*, Denver, Colorado, April 26–28, 2018.
- “Spatial Metrics for Urban Population Loss,” (co-authored with Eric Seymour) *57th Annual Meeting of the Western Regional Science Association*, Pasadena, California, February 11–14, 2018.
- “A Typology of Population Change for U.S. Counties,” (co-authored with Eric Seymour and William Violette) *64th Annual North American Meetings of the Regional Science Association International*, Vancouver, Canada, November 8–11, 2017.
- “The Geography of Population Loss in the U.S.: New Insights from a Typology of Decline,” (co-authored with Douglas Hopping) *57th European Congress of the Regional Science Association International*, Groningen, The Netherlands, August 29–1 September 2017.
- “Spatial Focusing and the State-to-State Migration Behavior of College-Bound Students in the United States,” (co-authored with Alessandra Faggian, Steven Farber, and Jeff Allen) *9th International Conference on Population Geographies*, Seattle, Washington, June 29–July 1, 2017.
- “Fifty (or so) Ways to Lose Your Population: Comparing Typologies of Decline for U.S. Counties,” *25th Pacific Conference of the Regional Science Association International*, Tainan, Taiwan, May 17–20, 2017.
- “Placing People: Examining the Role of Demographic Factors in Urban Development and Change,” (co-authored with Sharmistha Bagchi-Sen) *Annual Meeting of the American Association of Geographers*, Boston, MA, April 5–9, 2017.
- “The View from Over the Hill: Regional Research in a Post-Demographic Transition World,” (co-authored with David A. Plane) *63rd Annual North American Meetings of the Regional Science Association International*, Minneapolis, Minnesota, November 9–12, 2016.
- “Measuring the Spatial and Demographic Burden of Decline in Shrinking U.S. Cities,” *63rd Annual North American Meetings of the Regional Science Association International*, Minneapolis, Minnesota, November 9–12, 2016.
- “Concentrated Decline: Patterns of Population Loss in Shrinking U.S. Cities,” *Annual Meeting of the American Association of Geographers*, San Francisco, CA, March 29–April 2, 2016 and *56th European Congress of the Regional Science Association International*, Vienna, Austria, August 23–26, 2016.
- “Going with the Flow: The State-to-State Migration Behavior of College-Bound Students in the United States,” (co-authored with Alessandra Faggian) *62nd Annual North American Meetings of the Regional Science Association International*, Portland, Oregon, November 11–14, 2015.
- “Sources of Human Capital Stock Increases: A Shift-Share Decomposition Approach,” *55th European Congress of the Regional Science Association International*, Lisbon, Portugal, August 25–29, 2015.
- “Covering the Losses: Measuring Exposure to Population Decline in U.S. Cities, 2000–2010,” *44th Annual Conference of the RSAI British and Irish Section*, University College Dublin, Ireland, August 16–18, 2015.
- “Decomposing the Demographic Sources of Human Capital Stock Increases in U.S. Metropolitan Areas, 2000–2010,” *8th International Conference on Population Geographies*, Brisbane, Australia, June 20–July 3, 2015.

- "The Demographic Burden of Population Decline in U.S. Cities, 2000–2010," *2015 Annual Meeting of the Population Association of America*, San Diego, CA, April 30–May 2, 2015.
- "Would the Real Migration Magnet Please Stand Up: Decomposing the Sources of Human Capital Stock Increases," *Annual Meeting of the Association of American Geographers*, Chicago, IL, April 21–25, 2015.
- "College Student Migration in New England: Who Comes, Who Goes, and Why We Might Care," (co-authored with Alessandra Faggian) *54th Annual Meeting of the Western Regional Science Association*, Tucson, AZ, February 2015.
- "For Whom the Bells Toll: Alonso and the Regional Science of Population Decline," (co-authored with Eveline van Leeuwen) *61st Annual North American Meetings of the Regional Science Association International*, Bethesda, MD, November 2014.
- "Population Decline and the Five Bells of Alonso," (co-authored with Eveline van Leeuwen) *54th European Congress of the Regional Science Association International*, St. Petersburg, Russia, August 2014.
- "Shrinking Smart: Population Decline and Footloose Human Capital," *Annual Meeting of the Association of American Geographers*, Tampa, FL, April 8–12, 2014.
- "The Centrifugal Force of Decline: Shrinking Cities and the Migration of the College Educated," *60th Annual North American Meetings of the Regional Science Association International*, Atlanta, GA, November 2013 and *53rd European Congress of the Regional Science Association International*, Palermo, Italy, August 2013.
- "Shrinking Cities and the Migration of the College Educated," *42nd Annual Conference of the RSAI British and Irish Section*, Sidney Sussex College, University of Cambridge, England, August 2013.
- "Assessing the Landscape of Population Decline and Growth in the United States: The Roles of the Demographic Components of Change and Geography," *7th International Conference on Population Geographies*, Groningen, the Netherlands, June 2013.
- "College Student Migration in the United States: Going with the Flow?" (co-authored with Alessandra Faggian) *Annual Meeting of the Association of American Geographers*, Los Angeles, CA, April, 2013 and *7th International Conference on Population Geographies*, Groningen, the Netherlands, June 2013.
- "Human Capital Interstate Migration in the USA: Evidence from the Integrated Postsecondary Education Data System," (co-authored with Alessandra Faggian) *52nd Annual Meeting of the Western Regional Science Association*, Santa Barbara, CA, February 2013.
- "College Student Migration in the United States, 2000–2009: Implications for Regional Human Capital Distribution," (co-authored with Alessandra Faggian) *59th Annual North American Meetings of the Regional Science Association International*, Ottawa, Canada, November 2012.
- "On the Nature of Shrinking Places: Developing Model Spatial Schedules of Population Decline," *59th Annual North American Meetings of the Regional Science Association International*, Ottawa, Canada, November 2012.
- "College Student Migration in the United States: Implications for Regional Human Capital Distribution," (co-authored with Alessandra Faggian) *52nd European Congress of the Regional Science Association International (RSAI)*, Bratislava, Slovakia, August 2012.
- "Exploring the Dynamics of College Student Migration in the United States," Population Science Research Day, Population Studies and Training Center, Brown University, May 2012.
- "Academic Jobs in Geography in the United States: Temporal Trends, Geographic Patterns, and the State of the Discipline, 1990–2012," *Annual Meeting of the Association of American Geographers*, New York, NY, February 2012.

- "Applying the Shift-Share Analysis Technique to State-Level Population Change in the United States, 2000–2010," *58th North American Meetings of the Regional Science Association International*, Miami, FL, November 2011.
- "Homeownership, the Housing Cost Burden, Home Foreclosure, and Nativity: Evidence from Miami-Dade County, Florida," (co-authored with Meagan Cahill) *58th North American Meetings of the Regional Science Association International*, Miami, FL, November 2011.
- "The Regional Dynamics of Population Change: A Story of Growth and Decline," *22nd Pacific Regional Science Conference Organization*, Seoul, South Korea, July 2011.
- "The Landscape of Diversity: County-Level Population Change in the United States, 2000–2010," *Annual Meeting of the Association of American Geographers*, Seattle, WA, April 2011.
- "Sustainable Diversity: Population Change and Diversity in American Higher Education," *50th Annual Meeting of the Western Regional Science Association*, Monterey, CA, February–March 2011.
- "Understanding the Geography of Student Diversity in American Higher Education," *57th North American Meetings of the Regional Science Association International*, Denver, CO, November 2010.
- "The Geography of Geography: An Analysis of Academic Geography Employment Postings in the United States, 1990–2009," *2010 Annual Meeting of the Association of American Geographers*, Washington, DC, April 2010.
- "Analyzing Student Diversity at Public Universities in the United States: A Regional Approach," *49th Annual Meeting of the Western Regional Science Association*, Sedona, AZ, February 2010.
- "Using Regional and Local Population Composition to Benchmark Higher Education Diversity Goals in the United States," *56th North American Meetings of the Regional Science Association International*, San Francisco, CA, November 2009.
- "Assessing the Presidential Vote through a Spatial Demographic Lens: The Influence of Migration and Fertility on 2000 and 2004 U.S. Election Results," *54th North American Meetings of the Regional Science Association International*, Savannah, GA, November 2007.
- "Demographic Profiling: Red States and Blue States in Recent Elections," *102nd Annual Meeting of the Association of American Geographers*, Chicago, IL, March 2006.
- "Pandora's Box: The Potential and Peril of Migration Data from the American Community Survey," (with David Plane) *44th Annual Meeting of the Western Regional Science Association*, San Diego, CA, February 2005.
- "Population Structure, Income Inequality, and Pollution: The Environmental Kuznets Curve Revisited," (with Matthias Ruth) *44th Annual Meeting of the Western Regional Science Association*, San Diego, CA, February 2005.
- "Using Migration Flows to Develop Spatial Weights Matrices: An Italian Fertility Example," (with Michael Tiefelsdorf) *51st Annual Meetings of the Regional Science Association International*, Seattle, WA, November 2004.
- "Assessing Coastal Population Change in the United States," *100th Annual Meeting of the Association of American Geographers*, Philadelphia, PA, March 2004 and *Annual Meeting of the Middle Atlantic Division of the Association of American Geographers*, College Park, MD, April 2004.
- "Migration of the Young, Single, and College Educated, 1995 to 2000," *43rd Annual Meeting of the Western Regional Science Association*, Maui, HI, February 2004.
- "Italian Fertility, 1864 to 1961: An Analysis of Regional Trends," *43rd European Congress of the Regional Science Association*, Jyväskylä, Finland, August 2003.
- "The Young and the Restless: Migration Behavior of the Young, Single, and Educated, 1995 to 2000," *99th Annual Meeting of the Association of American Geographers*, New Orleans, LA, March 2003.

- “Applying Shift-Share Analysis to Regional Fertility Change: The Case of Italy, 1952–1991,” (with David Plane) *42nd Annual Meeting of the Western Regional Science Association*, Rio Rico, AZ, Feb.–March 2003.
- “Using Shift-Share Analysis to Understand Fertility Variation Across Italy’s Regions,” (with David Plane) *49th North American Meetings of the Regional Science Association International*, San Juan, PR, November 2002.
- “A Spatial Perspective on Italian Regional Fertility Convergence,” *98th Annual Meeting, The Association of American Geographers*, Los Angeles, CA, March 2002.
- “Fertility Convergence Across Italy’s Regions, 1952–1995,” *41st Annual Meeting, Western Regional Science Association*, Monterey, CA, February 2002.
- “An Assessment of Fertility Convergence Across Italy’s Regions,” *48th North American Meetings of the Regional Science Association International*, Charleston, SC, November 2001.
- “The Role of Fertility Research in Population Geography,” *97th Annual Meeting, The Association of American Geographers*, New York, NY, February–March 2001.
- “Spatial Dimensions of the Easterlin Hypothesis: Fertility Variations in Italy,” (with Brigitte Waldorf) *47th North American Meetings of the Regional Science Association International*, Chicago, IL, November 2000.
- “Housing Prices in a Southwestern U.S. City: Evidence from Tucson, Arizona,” (with Gordon Mulligan & Adrian Esparza) *12th International Symposium of the Secretariat of the Pacific Regional Science Conference Organization of the RSAI*, Tokyo, Japan, October 2000.
- “Shrinking Populations and Below Replacement Level Fertility: The Case of Italy,” (with Brigitte Waldorf) *6th Regional Science Association International World Congress*, Lugano, Switzerland, May 2000.
- “Explaining Below Replacement Level Fertility: The Case of Italy,” *96th Annual Meeting, The Association of American Geographers*, Pittsburgh, PA, April 2000.
- “Predicting the Ratio of List Prices to Selling Prices in a Southwestern Housing Market,” (with Gordon Mulligan, Adrian Esparza, & Brigitte Waldorf), *46th North American Meeting, The Regional Science Association International*, Montréal, Canada, November 1999.
- “Recent Citizenship and Immigration Legislation in France,” *95th Annual Meeting, The Association of American Geographers*, Honolulu, HI, March 1999.

Service

Departmental and University Service

Newcastle University

- Faculty Search Committee, Geography, Lectureship in Quantitative Human Geography, 2022
- Faculty Search Committee, Computer Science, Chair in Data Science and Visualisation, 2022
- Interview Panel, Lectureship, Digital Law, Policy and Society, Newcastle Law School, 2021
- Theme Lead, Spatial Analytics, Centre for Data (NUCoRE), 2019–2023
- Faculty Search Committee, Geography, 2020
- Internal Selection Panel, Turing Artificial Intelligence Acceleration Fellowships, 2019
- Faculty Search Committee, Geography, 2019

The Alan Turing Institute

- Search Committee, Urban Analytics Programme Deputy Director, Alan Turing Institute, 2021
- Interview Panel, Shocks and Resilience Post-Docs, Alan Turing Institute, 2021
- Interview Panel, PhD studentships, Alan Turing Institute, 2019

University of Zurich

- Search Committee (external member), Assistant Professorship in Urban Analytics, 2023–2024
- External Evaluation Committee, Department of Geography, 2023

Brown University

Co-Organizer, S4 Speaker Series, Fall 2013–Spring 2018

First Year Student Advisor, Fall 2013–Spring 2018

Second Year Student Advisor, Fall 2014–Spring 2018

First Readings Seminar Leader, Fall 2011, Fall 2012

School of Public Policy, University of Maryland

Admissions Committee, 2009–2010 academic year

Editorial Service

Book Review Editor, *Journal of Regional Science*, January 2013–December 2016

Editorial Boards:

Spatial Economic Analysis, 2025–present

Journal of Regional Science, 2024–present

Annals of the American Association of Geographers (AAG), 2023–present

Journal of Korea Planning Association (JKPA), 2023–present

International Regional Science Review, 2022–present

Tijdschrift voor Economische en Sociale Geografie (TESG), 2021–present

Journal of Geographical Systems, 2019–present

The Annals of Regional Science, 2018–present

Population, Space and Place, 2017–present

Raumforschung und Raumordnung | Spatial Research and Planning, 2017–present

Urban Climate, 2012–present

Advisory Board, *Asia-Pacific Journal of Regional Science*, 2016–present

Journal Manuscript Review: *Ambio*; *Annals of the Association of American Geographers*; *The Annals of Regional Science*; *Antipode*; *Area*; *Asian Journal of Regional Science*; *Cambridge Journal of Regions, Economy and Society*; *Cities*; *Computers, Environment and Urban Systems*; *Demographic Research*; *Demography*; *Economic Geography*; *Environmental Politics*; *Environment and Planning A*; *European Planning Studies*; *Geographical Analysis*; *The Geographical Journal*; *Growth and Change*; *International Journal of Sustainable Transportation*; *International Migration Review*; *International Regional Science Review*; *Journal of Applied Geography*; *Journal of Economic Geography*; *Journal of Housing and the Built Environment*; *Journal of Regional Science*; *Journal of Urban Design*; *Journal of Urban Economics*; *Northeastern Geographer*; *Papers in Regional Science*; *Population Research and Policy Review*; *Population, Space and Place*; *Proceedings of the National Academy of Sciences (PNAS)*; *The Professional Geographer*; *Regional Studies*; *The Review of Regional Studies*; *Sociological Methods and Research*; *Social and Cultural Geography*; *Social Geography*; *Social Problems*; *Spatial Economic Analysis*; *Sustainability*; *Tijdschrift voor Economische en Sociale Geografie*; *Transportation Research Part C*; *Urban Affairs Review*; *Urban Climate*; *Urban Geography*; *Urban Studies*

Book Manuscript Reviews: Palgrave Macmillan, Springer

Co-Editor (with Eveline van Leeuwen), Special Issue “Alonso’s Five Bells: Insights for Spatial Inequality and Population Decline,” *International Regional Science Review*, 41(2), 2018

Co-Editor (with Jacques Poot), Special Issue “Spatial Demography in Regional Science,” *Journal of Geographical Systems*, 23(2), 2021

Disciplinary Service

Leadership Roles

Regional Research Institute (RRI), West Virginia University, External Advisory Board, March 2021–present

Regional Studies Association (RSA), Board Member (Chair for Diversity and Inclusion), 2020–2023

Regional Science Association International (RSAI)

Councilor, 2018–2021

Councilor, 2012–2014

Pacific Regional Science Conference (PRSCO)

President, 2018–2021

American Association of Geographers (AAG)

Population Specialty Group (PSG)

Immediate Past President, 2017–2019

President, 2015–2017

Vice President, 2013–2015

Member-at-Large, 2010–2013

AAG Annual Meeting

Local Arrangements Committee, 2017 (Boston)

Local Arrangements Committee, 2012 (New York)

Spatial Analysis and Modelling Specialty Group

Student Representative, 1999–2002

North American Regional Science Council (NARSC),

Council Member, 2011–2018

Student Paper Prize Reading Committee, 2011

Professional Development and Outreach

“Geography, Politics and Sociology Research Funding Roundtable”, Newcastle University, October 25, 2023

“Literature Reviews: Together We Can Learn to Love Them”, Geospatial Systems Centre for Doctoral Training, May 10, 2024; 18 April, 2023; 4 May, 2022; May 27, 2021 (virtual)

“Leading and Managing Research Teams,” PI Development Programme, Newcastle University, May 16, 2022, and March 3, 2022 (virtual)

Session Chair, “Future Trends,” U.K. Geographers in Government Annual Conference, December 11, 2020. (virtual)

“The Takeaway: Tips and Techniques for Effective Presentations,” Regional Studies Association (RSA) Professional Development Webinar Series, June 10, 2020. (virtual)

“Space for Digital Scholarship,” Association of Research Libraries Fall Forum, Washington, D.C., October 8, 2015.

“Migration Data and the ACS,” presented in COPS *Workshop on the American Community Survey*, Population Association of America (PAA) 2014 Annual Meeting, May 1–3, 2014.

Session Chair/Panelist: “The Academic Job Market for Geographers” and “Navigating an Academic Career: Opportunities and Challenges for Geographers”, American Association of Geographers (AAG) Annual Meeting, Los Angeles, April 9–13, 2013.

“Geographical Data in the Social Sciences,” Brown University, Digital Society Initiative Day of Data, May 18, 2012.

“GIS: An Overview and Applications in Demography,” 9th Annual WBCA Conference,” Brown University, April 5, 2011.

Funding Agency Service

U.K. Economic and Social Research Council (ESRC), UKRI, Director, Levelling Up Sandpit (January 2024)

La Caixa Foundation (September 2021)

Hong Kong Research Grants Council (RGC), Humanities and Social Sciences Panel (2021–2023)

U.K. Economic and Social Research Council (ESRC), UKRI, Grant Assessment Panel (2019–2022)

U.S. National Science Foundation, Methodology, Measurement, and Statistics (MMS) (2014–2015)

U.S. National Science Foundation, Geography and Spatial Sciences (GSS) (2011–2014)

Reviews for Funding Agencies

Horizon Europe (interim project reviews x 2)
U.K. Research and Innovation, Medical Research Council
U.S. National Science Foundation
European Research Council
Vrije Universiteit Brussel (VUB)
The Hong Kong Institute of Education (HKIEd)

Reviews for Promotion and Tenure

Brown University (US)	University of Leeds (UK) (3)
University of California, Davis (US)	KU Leuven (Belgium)
University of California, Los Angeles (US)	Liverpool University (UK)
University of California, Santa Barbara (US)	Pennsylvania State University (US)
University of Cambridge (UK)	Texas A&M University (US)
University of Canterbury (NZ)	University of Southampton (UK)
Georgia State University (US)	University of Tennessee (US)
Lancaster University (UK)	University of Toronto

Conference Session Organization

- “Better Together? How Smart Data and Public Data Can Co-Exist and Thrive,” Data for Policy Conference, London, July 9–11, 2024 (co-organized with Omar Guerrero).
- “Geography and Data Science for Public Good: Data-Driven Evidence and Solutions to Social and Spatial Inequalities,” *Annual Meeting of the Association of American Geographers*, Honolulu, HI, April 16–20, 2024 (co-organized with Patrick Ballantyne and Alex Singleton).
- “Geographies of Inequality: Beyond ‘Left Behind’ Places,” (5 sessions) *Annual Meeting of the Association of American Geographers*, Denver, CO, March 23–27, 2023 (co-organized with Sanne Velthuis).
- “Mapping uneven roads to recovery: Methods, tools, and data for understanding spatial inequality,” RGS-IBG Annual International Conference 2022, Newcastle, UK, August 30–September 2, 2022 (co-organized with Caitlin Robinson and Francisco Rowe).
- “The SAD Games,” *30th Geographical Information Science Research UK (GISRUK) Conference*, Liverpool, UK, April 5–8, 2022 (co-organized with Daniel Arribas-Bel and Levi Wolf).
- “Bounding Inequality: Quantitative Methods and Approaches,” RGS-IBG Annual International Conference 2020, London, UK, September 1–4, 2020 (co-organized with Victoria Houlden and Caitlin Richardson).
- “Migration and Demography,” (Three sessions) *65th Annual North American Meetings of the Regional Science Association International*, San Antonio, TX, November 7–10, 2018 (organized with Mark Brown and Bruce Newbold).
- “A Globe-Shaped Crystal Ball: The Next Fifty Years of Geographical Analysis,” (Three sessions) *Annual Meeting of the Association of American Geographers*, New Orleans, LA, April 10–14, 2018.
- “Spatial Demography in Regional Science,” *57th Congress of the European Regional Science Association*, Groningen, The Netherlands, August 29–September 1, 2017 (organized with Jacques Poot).
- “Aspects of Population Decline I and II,” *61st Annual North American Meetings of the Regional Science Association International*, Bethesda, MD, November 12–15, 2014 (organized with Eveline van Leeuwen).
- “Economic, Demographic, and Geographic Aspects of Population Decline,” *54th Congress of the European Regional Science Association*, St. Petersburg, Russia, August 26–29, 2014 (organized with Eveline van Leeuwen).

- “Population Specialty Group: Lifetime Achievement Award for David A. Plane,” *Annual Meeting of the Association of American Geographers*, Tampa, Florida, April 8–12, 2014.
- “Regional Development,” Sessions I–X, *60th Annual North American Meetings of the Regional Science Association International*, Atlanta, Georgia, November 13–16, 2013 (organized with Alessandra Faggian and Elizabeth Mack).
- “Internal Migration of Graduates and Regional Labour Markets,” *7th International Conference on Population Geographies*, Groningen, the Netherlands, June 25–28, 2013 (organized with Sierdjan Koster and Viktor Venhorst).
- “Life Course Influence on Urban Demographics,” *Annual Meeting of the Association of American Geographers*, Los Angeles, CA, April 9–13, 2013.
- “The State of the Discipline: The Geography of Geography,” *Annual Meeting of the Association of American Geographers*, New York, NY, February 24–28, 2012.
- Eleven population geography sessions organized, *Annual Meeting of the Association of American Geographers*, Seattle, WA, April 12–16, 2011.
- “In These Tough Economic Times (ITTET): Analyzing Recession Geography I & II,” *Annual Meeting of the Association of American Geographers*, Washington, DC, April 14–18, 2010.
- “Employment in the Public Sector: Getting a Job with the Federal Government,” *Annual Meeting of the Association of American Geographers*, Las Vegas, NV, March 22–27, 2009.
- “Public Sector Geographic Data: Products and Applications,” *Annual Meeting of the Association of American Geographers*, Las Vegas, NV, March 22–27, 2009.
- “European Demographic Issues I & II,” *Annual Meeting of the Association of American Geographers*, Pittsburgh, PA, April 4–8, 2000 (with Brigitte Waldorf).

Event Organization and External Engagement

- Co-Host** (with Daniel Arribas-Bel and Levi Wolf), [The GLaD Podcast](#), March 2023–present
- Local Organizer**, Regional Science Association International-British and Irish Section (RSAI-BIS) Annual Meeting 2023, Newcastle University, Newcastle upon Tyne, July 4–6, 2023
- Organizer**, “Data and Data Science for the Measurement, Understanding and Mitigation of Place-Based Disparities,” Workshop, Newcastle University, Catalyst Building, March 10, 2023
- Program Committee**, PLATIAL’23 Symposium, TU Dortmund University, Germany, September 19–21, 2023
- Co-Organizer**, “Data Center Collaboration Event”, Leeds Institute for Data Analytics (LIDA) and The Alan Turing Institute, University of Leeds, July 21, 2022 (led by Susan Grant-Muller, with Alison Heppenstall)
- Organizer**, “Challenge Week”, EPSRC Geospatial Systems Centre for Doctoral Training, Newcastle University, July 11–15, 2022 (Atkins) and September 6–10, 2021 (Kinewell)
- Co-Chair**, AI UK 2022, London, March 22–23, 2022
- Organizer**, “The Northern Data Debates”, Newcastle University, sponsored by the Alan Turing Institute, the National Innovation Centre for Data and Newcastle Data, April–November, 2022
- Co-Host**, “Spatial Analytics + Data (SAD): The Interviews”, Online Interview Series, https://qmrg.github.io/sad_interviews, co-sponsored by the Royal Geographical Society (RGS), Newcastle University, University of Bristol, and the Alan Turing Institute, Urban Analytics Programme, 2020–2021 (with Daniel Arribas-Bel, University of Liverpool, and Levi Wolf, University of Bristol), 2021–present

Co-Organizer, “Spatial Analytics + Data (SAD)”, Online Seminar Series, co-sponsored by Newcastle University, University of Bristol, and the Alan Turing Institute, Urban Analytics Programme, 2020–present (with Levi Wolf, University of Bristol)

Organizer, “A Blueprint for Urban Analytics,” Workshop, Newcastle University, April 11–12, 2019

Conference Committee, *GISRUK 2019*, Newcastle University, April 23–26, 2019

Program Chair

62nd Annual North American Meetings of the Regional Science Association International (RSAI), Portland, OR, November 11–14, 2015

61st Annual North American Meetings of the Regional Science Association International (RSAI), Washington, D.C., November 12–15, 2014

Chair, Program Committee

57th Annual Meeting of the Western Regional Science Association, Pasadena, CA, Feb. 2018

56th Annual Meeting of the Western Regional Science Association, Santa Fe, NM, Feb. 2017

55th Annual Meeting of the Western Regional Science Association, Big Island, HI, Feb. 2016

54th Annual Meeting of the Western Regional Science Association, Tucson, AZ, Feb. 2015

53rd Annual Meeting of the Western Regional Science Association, San Diego, CA, Feb. 2014

52nd Annual Meeting of the Western Regional Science Association, Santa Barbara, CA, Feb. 2013

51st Annual Meeting of the Western Regional Science Association, Kauai, HI, Feb. 2012

Co-Chair, Program Committee

41st Annual Meeting of the Western Regional Science Association, Monterey, CA, Feb. 2002

40th Annual Meeting of the Western Regional Science Association, Palm Springs, CA, Feb. 2001

Co-Chair, Organizing Committee

17th Pacific Conference of the Regional Science Association International, Portland, OR, June–July, 2001

Program Committee

50th Annual Meeting of the Western Regional Science Association, Monterey, CA, Feb.–March 2011

39th Annual Meeting of the Western Regional Science Association, Poipu, HI, Feb. 2000

Media Appearances/Coverage

“Sunday morning with Kate McCann and Adam Boulton,” Times Radio, live commentary on UK population change, 4 February, 2024

“The U.S. population in 2024 is expected to grow by 1 person about every 24 seconds,” NPR Morning Edition, 4 January, 2024 (<https://www.npr.org/2024/01/01/1222380445/the-u-s-population-in-2024-is-expected-to-grow-by-1-person-about-every-24-second>)

“Americans didn’t move nearly as much as you may’ve thought during the pandemic,” Marketplace, 18 November, 2021 (<https://www.marketplace.org/2021/11/18/americans-didnt-move-nearly-as-much-as-you-mayve-thought-during-the-pandemic/>)

“Waiting out a down market may be tough for workers headed toward retirement,” Marketplace, 9 February 2018 (<https://www.marketplace.org/2018/02/09/waiting-out-down-market-may-be-tough-workers-headed-toward-retirement/>)

“Telling Rural People to Move Won’t Solve Poverty,” The New Republic, 23 January 2018 (<https://newrepublic.com/article/146713/telling-rural-people-move-wont-solve-poverty>)

“What Would Happen If Everyone in the World Lost Their Sex Drive?,” Gizmodo, 18 September 2017 (<https://gizmodo.com/what-would-happen-if-everyone-in-the-world-lost-their-s-1818504575>)

“Census: D.C. area gains young adults in recession,” The Washington Post, 27 October 2011 (https://www.washingtonpost.com/local/census-dc-area-gains-young-adults-in-recession/2011/10/26/gIQA8gijKM_story.html)

“Where Are Women Working?,” The Wall Street Journal, 14 June 2011,
(<https://blogs.wsj.com/juggle/2011/06/14/where-are-women-working/>)

“The Next Youth-Magnet Cities,” The Wall Street Journal, 30 September 2009
(<https://www.wsj.com/articles/SB10001424052748703787204574442912720525316>)

Professional Associations

American Association of Geographers (AAG)

Royal Geographical Society (RGS)

British Society for Population Studies (BSPS)

Population Association of America (PAA)

Regional Studies Association (RSA)

International Union for the Scientific Study of Population (IUSSP)

British and Irish Section of the Regional Science Association International (RSAI)