

David C. Folch

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Education

- 2012 Ph.D. Geography. Arizona State University, Tempe, Arizona.
- 2005 M.A. Economics. George Washington University, Washington, DC.
- 1996 B.S. Economics. Arizona State University, Tempe, Arizona.

Academic Experience

- 2014– Assistant Professor. Department of Geography, Florida State University, Tallahassee, Florida.
- 2012–2014 Research Associate. Institute of Behavioral Science, University of Colorado at Boulder, Boulder, Colorado.
- 2008–2012 Graduate Research Assistant. GeoDa Center, School of Geographical Sciences and Urban Planning, Arizona State University, Tempe, Arizona.
- 2005–2008 Graduate Teaching Associate. Department of Geography, San Diego State University, San Diego, California.
- 2005 Research Assistant. School of Public Policy and Public Administration, George Washington University, Washington, DC.

Professional Experience

- 2008–2009 Editorial Assistant. *International Regional Science Review*, Tempe, Arizona.
- 2004–2005 Market Analyst. Independent Contractor, Washington, DC.
- 2004 Graduate Intern. ThinkAZ (formerly: Arizona Center for Public Policy), Phoenix, Arizona.
- 1996–2003 Research Associate. ESI Corp, Phoenix, Arizona.

Publications

- 2014 David C. Folch and Seth E. Spielman. Identifying regions based on flexible user defined constraints. *International Journal of Geographic Information Science*, 28(1):164–184, 2014.
- 2014 Juan Carlos Duque, Xinyue Ye, and David C. Folch. spMorph: An exploratory space-time analysis tool for describing processes of spatial redistribution. *Papers in Regional Science*, 2014 (forthcoming).
- 2014 Seth E. Spielman, David C. Folch, and Nicholas N. Nagle. Patterns and causes of uncertainty in the American Community Survey. *Applied Geography*, 46:147–157, 2014.
- 2011 Sergio J. Rey and David C. Folch. Impact of spatial effects on income segregation indices. *Computers, Environment and Urban Systems*, 35(6):431–441, 2011.
- 2011 Sergio J. Rey, Luc Anselin, David C. Folch, Daniel Arribas-Bel, Myrna L. Sastré Gutiérrez, and Lindsey Interlante. Measuring spatial dynamics in metropolitan areas. *Economic Development Quarterly*, 25(1):54–64, 2011.

Grants and Awards

- 2013–2016 Measuring Social Vulnerability – Reducing Uncertainty and Validating Indicators Grant. Senior Personnel (PI Seth E. Spielman). National Science Foundation.
- 2012 U.S. Census Return Rate Challenge (Data Visualization). Winner (along with Charles R. Schmidt and Seth E. Spielman). kaggle.com.
- 2011–2012 Doctoral Dissertation Research: Residential Segregation Measures and Their Spatial Properties. Co-Principal Investigator (PI Sergio J. Rey). National Science Foundation.
- 2009 Anthony J. Brazel Research Examination Award. Arizona State University, Tempe, Arizona.
- 2008 University Graduate Fellowship. Arizona State University, Tempe, Arizona.

Presentations

- 2014 David C. Folch. *Teaching spatial analysis using python*. Scientific Computing with Python, Austin, Texas, 2014.
- 2014 David C. Folch. *Rail Transit and its Relationship to Residential Segregation and Redistribution*. Association of American Geographers Annual Meeting, Tampa, Florida, 2014.
- 2014 David C. Folch. *A Geocomputational Approach to Improving the Quality of American Community Survey Estimates (and Why it Matters)*. U.S. Census Bureau, Suitland, Maryland, 2014.
- 2014 David C. Folch. *Uncertain Uncertainty: Leveraging Spatial Patterns in the Quality of American Community Survey Estimates*. Florida State University Department of Geography, Tallahassee, Florida, 2014.
- 2013 Seth E. Spielman and David C. Folch. *Reducing American Community Survey Margins of Error Through Data Driven Regionalization*. North American Meetings of the Regional Science Association International, Atlanta, Georgia, 2013.
- 2013 David C. Folch. *Spatial Variation in the Quality of American Community Survey Estimates*. University of Colorado Department of Geography, Boulder, Colorado, 2013.
- 2013 David C. Folch. *American Community Survey Sampling and Weighting Mechanics*. Association of American Geographers Annual Meeting, Los Angeles, California, 2013.
- 2013 David C. Folch and Seth E. Spielman. *Region Building and the American Community Survey*. Association of American Geographers Annual Meeting, Los Angeles, California, 2013.
- 2012 David C. Folch and Sergio J. Rey. *Visualizing Local Segregation Using the Centralization Index*. Association of American Geographers Annual Meeting, New York, New York, 2012.
- 2011 David C. Folch and Sergio J. Rey. *The Centralization Index as a Measure of Local Segregation*. North American Meetings of the Regional Science Association International, Miami, Florida, 2011.
- 2011 Sergio J. Rey, Luc Anselin, and David C. Folch. *PySAL: Python Spatial Analysis Library, 1.2*. Association of American Geographers Annual Meeting, Seattle, Washington, 2011.
- 2011 Luc Anselin, David C. Folch, and Daniel Arribas-Bel. *GeoDaSpace: A Tool for Modern Spatial Econometrics*. Association of American Geographers Annual Meeting, Seattle, Washington, 2011.
- 2010 Sergio J. Rey, Luc Anselin, and David C. Folch. *Spatial Econometrics with PySAL and GeoDaSpace*. North American Meetings of the Regional Science Association International, Denver, Colorado, 2010.
- 2010 Sergio J. Rey, Luc Anselin, David C. Folch, Daniel Arribas-Bel, and Myrna L. Sastré Gutiérrez. *Measuring Spatial Dynamics in Metropolitan Areas*. Association of American Geographers Annual Meeting, Washington, D.C., 2010.
- 2009 Sergio J. Rey and David C. Folch. *What Can 70 Million or So Neighborhoods Tell Us about the Performance of Income Segregation Measures?* World Conference of the Spatial Econometrics Association, Barcelona, Spain, 2009.

- 2009 Sergio J. Rey, Luc Anselin, and David C. Folch. *Exploration of Spatial Structure and Linkage Using Spatial Weights Matrices*. Association of American Geographers Annual Meeting, Las Vegas, Nevada, 2009.
- 2008 Sergio J. Rey and David C. Folch. *Segregation Dynamics: Inferential and Dynamic Issues in the Measurement of Segregation*. Spatial Econometrics Association World Conference II, Brooklyn, New York.

Service – Professional

- Referee *Environment and Planning A, International Regional Science Review, Journal of Geographical Systems, Population Research and Policy Review, Proceedings of the Python in Science Conference, Urban Studies*
- Developer PySAL (Python Spatial Analysis Library). Open source software library in the Python programming language; 2009–2014.
- Member Program Committee. SciPy: Scientific Computing with Python; 2014.
- Developer GeoDaSpace. Free software for spatial econometric model estimation; 2010–2013.
- Organizer Session Organizer. Association of American Geographers Annual Meeting; 2013.
- Member Program Committee. North American Meetings of the Regional Science Association International; 2009.
- Chair Public Relations and Communications Committee. Arizona Association for Economic Development; 2001–2003.
- Member Planning Committee. Arizona Impact Fee Roundtable; 2001.

Service – Workshops

- 2013 Teaching Assistant. “Spatial Data Analysis with PySAL and GeoDaSpace” North American Meetings of the Regional Science Association International. Atlanta, Georgia.
- 2009 Instructor. “Spatial Regression Workshop” Crime Mapping Research Conference. New Orleans, Louisiana.
- 2009 Instructor. “Tools for Spatial Analysis” Crime Mapping Research Conference. New Orleans, Louisiana.
- 2008 Teaching Assistant. “Spatial Pattern Analysis Workshop” Center for Spatially Integrated Social Science (CSISS). Santa Barbara, California.
- 2007 Teaching Assistant. “Spatial Perspectives on Analysis for Curriculum Enhancement (SPACE) Workshop” Center for Spatially Integrated Social Science (CSISS). Santa Barbara, California.

Teaching Experience

- GEO 5934 GIS Programming. Florida State University. Fall 2014.
- GEOG 5001 GIS and Spatial Analysis Graduate Seminar. University of Colorado at Boulder. Fall 2013.
- GCU 102 Introduction to Human Geography. Arizona State University. Fall 2011, Spring 2012.
- GCU 361 Urban Geography. Arizona State University. Spring 2011.
- GCU 495 Quantitative Methods in Geography. Arizona State University. Summer 2010.

Professional Associations

Western Regional Science Association
 Association of American Geographers

Personal Information

Place of Birth: London, England.

Citizenship: United States of America, United Kingdom.

Tallahassee, August 4, 2014.