

BEV WILSON

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EDUCATION:

University of North Carolina at Chapel Hill, Chapel Hill, NC.

- Doctor of Philosophy, City and Regional Planning, 2009. Dissertation Title: “Scale Effects and the Determinants of Parcel Subdivision: A Discrete-Time Hazard Analysis.” Advisor: Professor Yan Song.
- Master of Regional Planning, City and Regional Planning, 2002. Master’s Project Title: “A Watershed Assessment and Planning Manual.” Advisor: Professor Philip Berke.

Duke University, Durham, NC.

- Bachelor of Arts, Economics and Political Science, December 1997.

PROFESSIONAL POSITIONS:

University of Illinois at Urbana-Champaign, Champaign, IL.

- 2016-Present, Associate Professor, Department of Urban & Regional Planning, University of Illinois at Urbana-Champaign.
- 2009-2016, Assistant Professor, Department of Urban & Regional Planning, University of Illinois at Urbana-Champaign.

RTI International, Research Triangle Park, NC.

- 2007-2008, Independent Consultant.

NOAA Coastal Services Center, Charleston, SC.

- 2002-2004, Spatial Analyst, Coastal Remote Sensing Program, NOAA Coastal Services Center.

Keane, Inc., Research Triangle Park, NC.

- 1998-2000, Programmer/Analyst.

PROFESSIONAL REGISTRATIONS:

American Planning Association

- American Institute of Certified Planners (AICP), February 2013.

SCHOLARLY PUBLICATIONS:

Peer reviewed articles

1. Wilson, Bev, and Shakil B. Kashem. “Spatially Concentrated Renovation Activity and Housing Appreciation in the City of Milwaukee, Wisconsin,” *Journal of Urban Affairs* (forthcoming).
2. Kashem, Shakil B., Bev Wilson, and Shannon Van Zandt. (2016). “Planning for Climate Adaptation: Evaluating the Changing Patterns of Social Vulnerability and Adaptation Challenges in Three Coastal Cities,” *Journal of Planning Education and Research*, 36(3), 304-318.
3. Greenlee, Andrew, and Bev Wilson. (2016). “Where Does Location Affordability Drive Residential Mobility? An Analysis of Origin and Destination Communities,” *Housing Policy Debate*, 26(4-5), 583-606.
4. Wilson, Bev, and Mallory L. Rahe. (2016). “Rural Prosperity and Federal Expenditures, 2000-2010,” *Regional Science Policy and Practice*, 8(1-2), 3-26.

5. Wilson, Bev, and Andrew Greenlee. (2016). "The Geography of Opportunity: An Exploratory Spatial Data Analysis of U.S. Counties," *GeoJournal*, 81(4), 625-640.
6. Chakraborty, Arnab, Bev Wilson, Saket Sarraf, and Arnab Jana. (2015). "Open Data for Informal Settlements: Toward A User's Guide for Urban Managers and Planners," *Journal of Urban Management*, 4(2), 74-91.
7. Chakraborty, Arnab, Bev Wilson, and Shakil B. Kashem. (2015). "The Pitfalls of Regional Delineations in Land Use Modeling: Implications for the Mumbai Region and Its Planners," *Cities*, 45, 91-103.
8. Kashem, Shakil B., Andi Irawan, and Bev Wilson. (2014). "Evaluating the Dynamic Impacts of Urban Form on Transportation and Environmental Outcomes in U.S. Cities," *International Journal of Environmental Science and Technology*, 11(8), 2233-2244.
9. Wilson, Bev, and Mary M. Edwards. (2014). "Annexation and Ethnicity in the American Midwest," *Urban Affairs Review*, 50(3), 417-447.
10. Berg, Kevin, and Bev Wilson. (2013). "A Multilevel Analysis of Private Vehicle Evacuation Clearance Times along the U.S. Gulf Coast," *Environmental Hazards*, 12(3-4), 291-310.
11. Wilson, Bev, and Arnab Chakraborty. (2013). "The Environmental Impacts of Sprawl: Emergent Themes from the Past Decade of Planning Research," *Sustainability*, 5(8), 3302-3327.
12. Wilson, Bev. (2013). "Urban Form and Residential Electricity Consumption: Evidence from Illinois, USA," *Landscape and Urban Planning*, 115, 62-71.
13. Wilson, Bev. (2012). "An Examination of Electricity Consumption Patterns in Manufactured Housing Units," *Housing Policy Debate*, 22(2), 175-199.
14. Wilson, Bev, and Yan Song. (2011). "Do Large Residential Subdivisions Induce Further Development? A Spatially Explicit Hazard Analysis of Land Use Change in Charlotte," *Journal of the American Planning Association*, 77(1), 5-22.
15. Wilson, Bev, and Yan Song. (2009). "Comparing Apples with Apples: How Different Are Recent Residential Development Patterns in Portland and Charlotte?," *Journal of Urbanism*, 2(1), 51-74.

Book chapters

1. Wilson, Bev. "Data Integration and Web Mapping for Extreme Heat Event Preparedness." In G. Bareth and Y. Song (Eds.), *Comprehensive Geographic Information Systems: Biophysical and Environmental Applications of GIS*. Elsevier (forthcoming).

Publications in preparation

1. Wilson, Bev, and Arnab Chakraborty. "Open Heat Vulnerability Mapper: Exploring the Intersection of Vulnerability and Exposure to Extreme Heat Events in Chicago".
2. Edwards, Mary M., and Bev Wilson. "Annexation and the Recession: Testing Cutback Management Theories with Municipal Expenditures Data".
3. Wilson, Bev, and Shakil B. Kashem. "CyberGIS as a Planning Support System: A Review of Present Practices and Future Prospects".

Technical reports and non-peer reviewed publications

1. Wilson, Bev. (2014). "Review of Handbook of Participatory Video, edited by E-J. Milne, Claudia Mitchell, and Naydene de Lange (Rowman & Littlefield, 2012)," *Community Development*, 45(4), 426-427.
2. Leaman, Sam, Nicholas Oberlies, Bev Wilson, and David Jones. (2008). "Potential for Expansion of the Plant Biotechnology Sector in Northeastern North Carolina." Report prepared for the North Carolina Biotechnology Center and the Northeastern North Carolina Regional Economic Development Commission. (RTI International, Research Triangle Park, NC): pp. 1-163.
3. Powell, Mary Beth, Philip Hervey, Bev Wilson, David Salvesen, and David Godschalk. (2003). "The Impacts of Growth and Sprawl in North Carolina." Report prepared for the North Carolina Rural Economic Development Center. (Center for Urban and Regional Studies, The University of North Carolina at Chapel Hill): pp. 1-70.

GRANTS:

1. **Wilson, B., PI** & Chakraborty, A., Co-PI. Open Heat Vulnerability Mapper, Lincoln Institute of Land Policy, 2015-2017, \$45,000.
2. **Wilson, B., PI** & Kashem, S.B., Co-PI. Developing CyberGIS Pedagogy for Urban Planning Practice and Research, CyberGIS Center for Advanced Digital and Spatial Studies Fellow, University of Illinois at Urbana-Champaign, 2014-2015, \$4,000.
3. Chakraborty, A., PI & **Wilson, B., Co-PI**. Scenario Analysis and Land Use Modeling for Mumbai, India, College of Fine and Applied Arts Creative Research Award, University of Illinois at Urbana-Champaign, 2014-pres, \$8,185.
4. **Wilson, B., PI** & Chakraborty, A., Co-PI. Developing a Land Cover Algorithm for the Identification of Informal Settlements: A Pilot Study of Kolkata, India and Dhaka, Bangladesh, College of Fine and Applied Arts Creative Research Award, University of Illinois at Urbana-Champaign, 2013-pres, \$6,580.
5. **Wilson, B., PI**. Defining and Measuring Rural Livability: Implications for Federal Investment, Campus Research Board, University of Illinois at Urbana-Champaign, 2012-2013, \$17,162.
6. **Wilson, B., PI**. Site Design and Residential Energy Consumption: Evidence from across Illinois, Campus Research Board, University of Illinois at Urbana-Champaign, 2010-2011, \$10,965.

Pending

1. Nahrstedt, K., PI, Abdelzaher, T., Co-PI, Borisov, N., Co-PI, Han, J., Co-PI, & **Wilson, B., Co-PI**. SAFETYInPublicS: Socio-technological Advanced Framework and Environment Integrated with Public Spaces, National Science Foundation, S&CC-IRG Track 1, 2017-2022, \$5,000,000.
2. Ouyang, Y., PI, Cai, X., Co-PI, Chakraborty, A., Co-PI, Peng, J., Co-PI, **Wilson, B., Senior Personnel**, et al. Surveillance and Dynamic Control of Interdependent Critical Lifeline Infrastructures against Impacts of Flooding, National Science Foundation, CRISP Type 2, 2017-2020, \$3,000,000.

AWARDS AND HONORS:

1. 2016, List of Teachers Ranked as Excellent by their Students, University of Illinois at Urbana-Champaign, Champaign, IL. Course: Urban History and Theory
2. 2016, List of Teachers Ranked as Excellent by their Students, University of Illinois at Urbana-Champaign, Champaign, IL. Course: Advanced Applications of GIS
3. 2009, List of Teachers Ranked as Excellent by their Students, University of Illinois at Urbana-Champaign, Champaign, IL. Course: Urban History and Theory
4. 2004-2009, Joseph E. Pogue Fellowship, University of North Carolina at Chapel Hill, Chapel Hill, NC.
5. 2002, AICP Outstanding Planning Student Award, American Planning Association, Washington, DC.

SERVICE:

University and departmental service

- 2014, Member, Community and Economic Development Specialist Search Committee, University of Illinois Extension.
- 2014, Member, FAA-IT Deployment Specialist Search Committee.
- 2013, Member, Faculty Search Committee.
- 2013, Referee, UIUC Campus Research Board.
- 2012-2013, Member, Departmental Executive Advisory Committee.
- 2012, Faculty Advisor, Illinois Early Childhood Asset Map (IECAM).
- 2011-present, Member, Online Courses Committee.
- 2011-2013, Member, Lorado Taft Lectureship on Art Committee.
- 2011, Member, Department Head Search Committee.
- 2011, Member, Faculty Search Committee.

- 2010-2012, Faculty Mentor, Illinois Promise Program.
- 2010-present, Member, Ph.D. Program and Admissions Committee.
- 2009, Member, Bachelor's Curriculum Committee.

Editorial service (grant proposal, article, or book reviewer)

- Referee for Peer-Reviewed Journals, *Energy, Energy Policy, The Geographical Journal, Housing Policy Debate, Journal of Environmental Planning and Management, Journal of Planning Education and Research, Journal of Planning Literature, Journal of Urban Management, Land Use Policy, Landscape and Urban Planning, Remote Sensing Letters, Urban Affairs Review*

Other professional service

- 2016, Moderator for Annual Conference, Urban Affairs Association.
- 2014, Moderator for Annual Conference, Association of Collegiate Schools of Planning.
- 2014, Moderator for Annual Conference, Urban Affairs Association.
- 2013, Session Chair for Annual Conference, North American Regional Science Council.
- 2010, Referee for Annual Conference Paper, Transportation Research Board.

STUDENT ADVISING:

PhD in Regional Planning

- Katherine Nesse, "How Do We Know? Determining School District Fiscal and Administrative Policy in Rural Hispanic Boomtowns in the Midwest," University of Illinois at Urbana-Champaign, 2012. Now Assistant Professor at Kansas State University, Manhattan, KS.
- Dustin Allred, "Examining the Effectiveness of Voluntary Coordination Among Local Governments: Evidence from a Regional Land Use Planning Process," University of Illinois at Urbana-Champaign, 2013. Now Lecturer at Department of Urban and Regional Planning, Champaign, IL.
- Shakil Bin Kashem, "Moving Towards Disaster: Examining the Changing Patterns of Social Vulnerability in a Multi-hazard Urban Environment," University of Illinois at Urbana-Champaign, 2015. Now Teaching Assistant Professor at University of Illinois at Urbana-Champaign, Champaign, IL. (**Chair of Committee**)
- Sungwon Lee, "The Influence of Urban Form and Fuel Price on GHG Emissions in the U.S. Household Sector," University of Illinois at Urbana-Champaign, 2015.
- Stephanie Timm, "Comparative Planning in Practice: Identifying the Cultural and Behavioral Barriers to Learning from International Sustainability Solutions," University of Illinois at Urbana-Champaign, 2016. Now WELL Scholar at Delos, Washington, DC.
- Aaron Petri, "The Role of Urban Tree Location, Spatial Configuration, and Density in Heat Island Mitigation, Ecosystem Service Provisioning, and Tree Survivability," University of Illinois at Urbana-Champaign, in progress.
- Andrew McMillan, "After the Foreclosure Crisis: Measuring Neighborhood Recovery and Contributing Factors," University of Illinois at Urbana-Champaign, in progress.

Master of Urban Planning (Thesis)

- Janel Gomez, "Vertical Inequities in Property Taxation: A Spatial Analysis of California's Proposition 13," University of Illinois at Urbana-Champaign, 2011. Now Community Development Specialist at City of Champaign, Champaign, IL. (**Chair of Committee**)

Master of Urban Planning (Capstone)

- Rachel Siegert, “Village of Rochester Comprehensive Plan,” University of Illinois at Urbana-Champaign, 2010. Now Real Estate Agent at Ameren, St. Louis, MO.
- Brie Sherow, “Surfbreak Identification and Mapping in New Zealand,” University of Illinois at Urbana-Champaign, 2011. Now Projects Manager at Life in Vacant Spaces, Christchurch, New Zealand.
- Aaron Bond, “Bedford Connections Project,” University of Illinois at Urbana-Champaign, 2014. Now City Planner I at Baltimore City Planning Department, Baltimore, MD.
- Bernardo Salazar, “Online Community Survey Tool,” University of Illinois at Urbana-Champaign, 2015. Now Research Analyst at [bc], Dallas, TX.
- Kristina Tranel, “Sustainable Energy Planning for a Changing Climate in the Southwestern United States: A Fort Bliss Case Study,” University of Illinois at Urbana-Champaign, 2015. Now Long Range and Transportation Planner at Pinellas Suncoast Transit Authority, Tampa, FL.
- Elizabeth Bastian, “Build Better, Build Open: A Case Study of Civic Technology in Greater Chicago, IL,” University of Illinois at Urbana-Champaign, 2016. Now Community Planner at Construction Engineering Research Laboratory, Champaign, IL.

Master of Landscape Architecture

- Shawn Sanes, “Giving New Meaning to “Mound City”: Landfills as a Historical Narrative of St. Louis, Missouri,” University of Illinois at Urbana-Champaign, 2013.

Master of Geography

- Kevin Berg, “The Social Determinants of Evacuation Time along the Gulf Coast of the United States: A Multilevel Analysis,” University of Illinois at Urbana-Champaign, 2013. Now Statistical Analyst at State of Colorado, Denver, CO.

TEACHING EXPERIENCE:

Associate professor, University of Illinois at Urbana-Champaign

- Urban History and Theory (UP 504; 1 time)
- Chicago: Planning and Urban Life (UP 204; 1 times)
- Small Town and Rural Planning Workshop (UP 457, 1 time)
- Civic Technology and the Digital City (UP 494, 1 time)

Assistant professor, University of Illinois at Urbana-Champaign

- Urban History and Theory (UP 504; 7 times)
- Advanced Applications of GIS (UP 519; 4 times)
- Chicago: Planning and Urban Life (UP 204; 5 times)
- Small Town and Rural Planning Workshop (UP 494 and UP 457, 2 times)
- Technology and the Megacity with Arnab Chakraborty (UP 594, 1 time)

Teaching assistant and instructor, UNC-Chapel Hill

- Applied Spatial Regression Analysis (Graduate Sociology course teaching assistant), spring 2009
- Introduction to Spatial Statistics and Spatial Regression (Odum Institute short course instructor), fall 2007, spring and fall 2008
- Urban Spatial Structure (Masters core course co-instructor), fall 2007

- Land Use Modeling (Masters elective course co-instructor), fall 2006
- Urban Spatial Structure (Masters core course teaching assistant), fall 2006
- Exploring Spatial Statistics and Autocorrelation with ArcGIS (Odum Institute short course instructor), spring 2006
- Development Impact Assessment (Masters course teaching assistant), spring 2001

SOFTWARE PROFICIENCY:

Apache, ArcGIS Suite, Bash, Dreamweaver, GeoDa, GeoServer, GitHub, HTML5, Microsoft Office Suite, MySQL, Open Data Kit, OpenStack, Python (basic), QGIS, R, shiny, Stata

PROFESSIONAL PRESENTATIONS, CONFERENCES, WORKSHOPS:

- Wilson, Bev. "[Chicago Heat Vulnerability Mapper](#)," American Planning Association National Conference, New York, NY (May 8 2017).
- Wilson, Bev. "Open Heat Vulnerability Mapper," Coastal GeoTools Conference, Charleston, SC (February 8 2017).
- Wilson, Bev. "Using Real Time Traffic Data and Satellite Imagery to Understand the Relationship Between Land Use and Congestion: A Framework for Indian Cities," Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC) Conference, Mumbai, India (December 19 2016).
- Wilson, Bev. "Open Heat Vulnerability Mapper," Scenario Planning Applications Network (SPAN) Symposium, Champaign, IL (November 14 2016).
- Wilson, Bev. "Open Heat Vulnerability Mapper: Data Integration, Visualization, and Scenario Analysis," Association of Collegiate Schools of Planning Annual Conference, Association of Collegiate Schools of Planning, Portland, OR (November 5 2016).
- Wilson, Bev (panelist). "Smart Cities and Plan Making for the Public Interest," Association of Collegiate Schools of Planning Annual Conference, Association of Collegiate Schools of Planning, Portland, OR (November 3 2016).
- Wilson, Bev. "Rural Prosperity and Federal Expenditures, 2000–2010," Regional Economics Applications Laboratory (REAL), Champaign, IL (September 13 2016).
- Wilson, Bev. "Open Heat Vulnerability Mapper," Scenario Planning Applications Network (SPAN), Champaign, IL (July 26 2016).
- Wilson, Bev and Arnab Chakraborty. "Technology and the Megacity: Leveraging Scenario Analysis, Open Data, and Modeling Tools for Urban Planning," U.S. Army Corps of Engineers Construction Engineering Research Laboratory (CERL), Champaign, IL (April 7 2016).
- Wilson, Bev, Arnab Chakraborty, and Elizabeth Bastian. "Open Heat Vulnerability Mapper: Exploring the Intersection of Vulnerability and Exposure to Extreme Heat Events," Urban Affairs Association Annual Conference, Urban Affairs Association, San Diego, CA (March 17 2016).
- Wilson, Bev, and Shakil B. Kashem. "CyberGIS as a Planning Support System: A Review of Present Practices and Future Prospects," Association of American Geographers Annual Meeting, Association of American Geographers, Chicago, IL (April 21 2015).
- Wilson, Bev (**organizer**). "Simulating the Microclimate and Energy Use Impacts of Vegetation: Implications for Planning and Design," Association of Collegiate Schools of Planning Annual Conference, Association of Collegiate Schools of Planning, Philadelphia, PA (October 30 2014).
- Wilson, Bev (**organizer**). "How Can Urban Planning Better Engage with Energy?," Association of Collegiate Schools of Planning Annual Conference, Association of Collegiate Schools of Planning, Philadelphia, PA (October 30 2014).
- Wilson, Bev. "After the Fall: The Impacts and Meaning of Deindustrialization in Hoopston, IL," Urban Affairs Association Annual Conference, Urban Affairs Association, San Antonio, TX (March 20 2014).

- Edwards, Mary M., and Bev Wilson. “Annexation, Contested Local Environments and Minority Voting Power,” Urban Affairs Association Annual Conference, Urban Affairs Association, San Antonio, TX (March 20 2014).
- Wilson, Bev. “Measuring Rural Livability: Implications for Federal Investment,” North American Meetings of the Regional Science Association International, North American Regional Science Council, Atlanta, GA (November 14 2013).
- Wilson, Bev. “Piloting the Community Voice Method in Hoopston, IL,” University of Illinois Extension State Conference, Champaign, IL (November 2013).
- Wilson, Bev, and Andrew Greenlee. “Outmigration and the Geography of Non-metropolitan Opportunity,” Association of American Geographers Annual Meeting, Association of American Geographers, Los Angeles, CA (April 10 2013).
- Wilson, Bev. “Rural Planning in a New Century (Intersection Roundtable),” Association of Collegiate Schools of Planning Annual Conference, Association of Collegiate Schools of Planning, Cincinnati, OH (November 1 2012).
- Wilson, Bev. “Defining and Measuring Rural Livability: Implications for Federal Investment,” Association of Collegiate Schools of Planning Annual Conference, Association of Collegiate Schools of Planning, Cincinnati, OH (November 1 2012).
- Wilson, Bev. “The Effect of Price and Environmental Attitudes on Conservation Behavior and Residential Electricity Consumption,” Comparative Urban Sustainability Symposium, KTH University, Stockholm, Sweden (October 3 2012).
- Wilson, Bev. “Analyzing the Depth and Spatial Concentration of Disinvestment for Insight into Gentrification Patterns and Processes,” Urban Affairs Association Annual Conference, Urban Affairs Association, Pittsburgh, PA (April 20 2012).
- Wilson, Bev. “Site Design and Residential Electricity Consumption: Evidence from across Illinois,” Association of Collegiate Schools of Planning Annual Conference, Association of Collegiate Schools of Planning, Minneapolis, MN (October 10 2010).
- Wilson, Bev, and Yan Song. “Do Large Residential Subdivisions Induce further Development? A Spatially Explicit Hazard Analysis of Land Use Change,” Association of Collegiate Schools of Planning Annual Conference, Association of Collegiate Schools of Planning, Crystal City, VA (October 2 2009).