

CURRICULUM VITAE

Philip R. Berke

Office:

Department of City & Regional Planning & Institute for the Environment
University of North Carolina
Chapel Hill, NC 27599-3140

Academic/Research Experience

2019-present: Research Professor, Department of City & Regional Planning, University of North Carolina
2019-present: Fellow, Coastal Resilience Center, University of North Carolina
2014-2019: Presidential Investment Hire and Professor, Department of Landscape Architecture and Urban Planning, Texas A&M
1995-2013: Professor (2003), Associate Professor, Department of City & Regional Planning, University of North Carolina
1995-2013: Fellow, Center for Urban & Regional Studies, University of North Carolina
1998-2013: Adjunct Professor, Curriculum in Ecology, University of North Carolina
2008-2014: Fellow, Center for Galapagos Studies, University of North Carolina
2013-present: Collaborative Faculty Affiliate, Plan Evaluation Lab, School of Community & Regional Planning, University of British Columbia, Canada
2000-2010: Collaborative Research Scholar, International Global Change Institute, University of Waikato, New Zealand
1995-2002: Faculty Fellow, Lincoln Institute of Land Policy, Cambridge, Massachusetts
1987-1994: Associate Professor, Assistant Professor, Department of Landscape Architecture and Urban Planning, Texas A&M University
1982-1986: Assistant Research Scientist, Texas Engineering Experiment Station, College Station, Texas A&M

Administrative Experience

2020-present: Director, Center for Resilient Communities and the Environment, Institute for the Environment, University of North Carolina
2014-2019: Director, Institute for Sustainable Communities, Texas A&M at College Station
2008-2013: Deputy Director, Interim Director, UNC Institute for the Environment.
2007-2013: Director, Center for Sustainable Community Design, UNC Institute for the Environment.
2004-2008: Chair Environmental Studies Curriculum, Carolina Environmental Program
1999-2002, 2005-2006: Director Masters Program, UNC Department of City & Regional Planning
1993-1994: Coordinator, Ph.D. Program, Department of Landscape Architecture and Urban Planning, Texas A&M University
1988-1994: Associate Director, Interim Director, Hazard Reduction and Recovery Center, College of Architecture, Texas A&M University

Academic Background

1981 Texas A&M University, Urban and Regional Science, Ph.D.
1977 University of Vermont, Natural Resources Planning, M.S., USDA Research Fellowship
1974 Empire State College, Economics and Environmental Science, B.A.

Honors and Awards

2023: Blanchard Award for Academic Excellence in Emergency Management Higher Education
2020: Certificate of Research Excellence, Environmental Design Research Association
2020-present: Senior Editor, Climate Change and Water Policy, Oxford University Press
2016: Best Article Award, Journal of the American Planning Association
2014-2019: Presidential Investment Hire, Texas A&M University at College Station

- 2013: Co-authored book selected to be one of the “100 Essential Books in Planning,” American Planning Association Centennial Great Books, www.planning.org/centennial/greatbooks/
- 2013: Faculty Award for Excellence in Doctoral Student Mentoring, UNC Graduate School
- 2011: Outstanding Alumni Award, Texas A&M University, College of Architecture
- 2011: Clarkson Visiting Chair, the University of Buffalo, School of Architecture & Planning, March
- 2004: Article selected as one of the 50 most influential articles for inclusion in *The Economics of Natural Hazards* (The International Library of Critical Writings in Economics), for “Recovery After Disasters: Achieving Sustainable Development, Mitigation, and Equity
- 2001: Best Article Award, Journal of the American Planning Association
- 2000: Authored chapter in *The Practice of Local Government Planning*, selected as one of Top 20 Urban Planning Books of All Time by Planetizen (<http://www.planetizen.com/books/20>)
- 2000: Honorable Mention, Best Article Award, Journal of the American Planning Association
- 2000: Silver Award (2nd place), Society of National Association of Publications in the “feature article” category
- 1993: Senior Fulbright Scholar, Centre for Environmental and Resource Studies, University of Waikato, New Zealand

Courses Taught:

University of North Carolina: Land Use Planning, Planning Theory, Planning Workshop, Land Use and Environmental Policy, Development Impact Assessment

Texas A&M University: Plan Making

Current Research

Plan Integration for Resilience Scorecard™ -- <https://planintegration.com/>. Improve knowledge on interactions among networks of policy institutions, networks of plans produced by such institutions, and community risk to hazards and climate change among networks of urban systems. Tools for applying the Scorecard by cities include a guidebook for local planners, software tools for assisting evaluation of the integration of resilience in urban networks of plans, training webinars, and data sources for social and built environment vulnerability indicators. In 2017-23, eighteen cities in the US, three in the Netherlands, and one in China used information generated by the Resilience Scorecard to improve urban resilience. Over 1,000 members of the American Planning Association have been trained to apply the scorecard.

Refereed Articles:

- 1979 Sargent, Frederic and Philip Berke. A Model Water Resources Planning Procedure for Rural Towns, *American Water Resources Bulletin*, 3 (1): 496-505.
- 1979 Sargent, Frederic and Philip Berke. Planning Undeveloped Lakeshore: A Case Study on Lake Champlain, Ferrisburg, Vermont, *American Water Resources Bulletin*, 1 (1): 826-837.
- 1983 Berke, Philip. San Francisco Bay: A Successful Case of Coastal Zone Planning Legislation and Implementation, Philip Berke, *The Urban Lawyer – The National Quarterly on Local Government Law*, 15 (2): 487-501.
-Reprinted in *Current Municipal Programs*, Ed., Byron Mathews, Callaghan & Company: 101-115, 1984.
- 1983 Berke, Philip. Coastal Zone Management from an Administrative Perspective: A Case Study of Texas, *American Review of Public Administration*, 16 (43): 217-226.
- 1984 Berke, Philip, Terry Larsen and Carlton Ruch. A Computer System for Natural Hazard Risk Assessment, *Journal of Computers, Environment and Urban Systems*, 9 (4): 259-269.
- 1985 Berke, Philip and Carlton Ruch. Application of a Computer System for Hurricane Emergency and Land Use Planning, *Journal of Environmental Management*, 21: 117-134.

- 1986 Berke, Philip. Disaster Research: Its Future and Funding, *International Journal of Mass Emergencies and Disasters*, 4 (1): 66-70.
- 1989 Berke, Philip. Hurricane Vertical Shelter Policy: The Experiences of Florida and Texas, *Journal of Coastal Management*, 17 (3): 118-159.
- 1989 Berke, Philip and Norris Stubbs. Automated Decision Support Systems for Hurricane Risk Assessment and Planning, Simulation: *Journal of the Society for Computer Simulation International*, 43 (3): 101-111.
- 1989 Berke, Philip, Timothy Beatley and Suzanne Wilhite. Influence on Adoption of Local Land Use Planning Measures for Earthquake Hazard Mitigation, *International Journal of Mass Emergencies and Disasters*, 7 (1): 33-56.
- 1990 Beatley, Timothy and Philip Berke. Seismic Safety Through Public Incentives: The Palo Alto-Seismic Hazard Identification Program, *Earthquake Spectra*, 6 (1): 57-81.
- 1992 Berke, Philip and Timothy Beatley. A National Assessment of Earthquake Mitigation: Implications for Land Use Planning and Public Policy, *Earthquake Spectra*, 8 (1): 1-17.
- 1993 Beatley, Timothy and Philip Berke. Time to Shake Up Earthquake Planning, *Issues of Science and Technology: Journal of the National Academy of Sciences*, 9 (2): 82-90.
- 1993 Berke, Philip, Timothy Beatley and Clarence Feagin. Hurricane Gilbert Strikes Jamaica: Linking Disaster Recovery to Development, *Journal of Coastal Management*, 21: 1-23.
- 1993 Berke, Philip, Jack Kartez and Dennis Wenger. Recovery After Disasters: Achieving Sustainable Development Mitigation, and Equity, *Disasters: The Journal of Disaster Studies and Management*, 17 (2): 93-109.
 -Selected as one of the 50 most significant papers published in the hazards field, reprinted in Kunruether, Howard, Adam Rose, eds. *The Economics of Natural Hazards*. Surrey, UK: Edward Elgar Publishers, 2004.
 -Reprinted in United Nations Disaster Management Training Programme, Disasters and Development Module, Geneva, Switzerland, United Nations Development Programme, 1995.
- 1993 Burby, Raymond, Philip Berke, Linda Dalton, John DeGrove, Steven French, Edward Kaiser, and Peter May. Is State Mandated Planning Effective?, *Land Use Law and Zoning Digest*, 45 (10): 3-10.
- 1994 Berke, Philip. Evaluating Environmental Plan Quality: The Case of Planning for Sustainable Development in New Zealand, *Journal of Environmental Planning and Management*, 37 (2): 155-169, 1994.
- 1994 Berke, Philip and Steven French. The Influence of State Planning Mandates on Local Plan Quality, *Journal of Planning Education and Research*, 13 (4): 237-250.
- 1995 Berke, Philip and Timothy Beatley. Sustaining Jamaica's Forests: The Protected Area and Resource Conservation Project, *Environmental Management*, 19 (4): 527-546.
- 1995 Berke, Philip. Natural Hazard Reduction and Sustainable Development: A Global Assessment, *Journal of Planning Literature*, 9 (4): 370-382.
- 1996 Berke, Philip, Dale Roegnik, Edward Kaiser, and Raymond Burby. Enhancing Plan Quality: Evaluating the Role of State Planning Mandates for Natural Hazard Mitigation, *Journal of Environmental Planning and Management*, 39 (1): 79-96.

- 1997 Berke, Philip, Jennifer Dixon, and Neil Ericksen. Coercive and Cooperative Intergovernmental Mandates: Examining Florida and New Zealand Environmental Plans, *Environmental and Planning B*, 24: 451-468.
- 1997 Dixon, Jennifer, Neil Ericksen and Philip Berke. Planning Under a Sustainable Management Mandate in New Zealand: Starting from Scratch?, *Journal of Environmental Planning and Management*, 40 (5): 603-614.
- 1998 Manta, Maria and Philip Berke. How Are We Doing? A Look at the Practice of Planning for Sustainable Development, *Carolina Planning*, Summer: 29-40.
- 1998 Berke, Philip. Reducing Natural Hazards Risks through State Growth Management, *Journal of the American Planning Association*, 64 (1): 76-87.
- 1999 Burby, Raymond with Timothy Beatley, Philip Berke, Robert Deyle, Steve French, David Godschalk, Edward Kaiser, Rutherford Platt, and others. Unleashing the Power of Planning to Create Disaster-Resistant Communities, *Journal of the American Planning Association*, 65 (3): 247-258.
 -2000 Honorable Mention Best Article Award, American Planning Association.
 -Silver award (second place) from the Society of National Association Publications in the "feature article" category, 2000.
- 1999 Berke, Philip, Jan Crawford, Jennifer Dixon, and Neil Ericksen, Do Co-Operative Environmental Management Mandates Produce Good Plans?: An Empirical Evaluation of New Zealand's Resource Management Act, *Environment and Planning B*, 26: 643-664.
- 2000 Berke, Philip and Maria Manta-Conroy. Are We Planning for Sustainable Development? An Evaluation of 30 Comprehensive Plans, *Journal of The American Planning Association*, 66 (1): 21-34.
 -2001 Best Article Award, American Planning Association.
- 2002 Berke, Philip. Does Sustainable Development Offer a New Direction for Planning? Challenges for the Twenty First Century, *Journal of Planning Literature*, 17 (1): 22-36.
- 2002 Berke, Philip, Neil Ericksen, Jan Crawford, and Jenny Dixon. Planning and Indigenous People: Human Rights and Environmental Protection in New Zealand, *Journal of Planning Education and Research*, 22 (2): 115-134.
- 2003 Berke, Philip, Joseph McDonald, Nancy White, Michael Holmes, Kat Oury, and Rhonda Ryznar. Greening Development for Watershed Protection: Does New Urbanism Make a Difference?, *Journal of the American Planning Association*, 69 (4): 397-413.
- 2004 Berke, Philip, Joseph McDonald, Nancy White, Michael Holmes, Kat Oury, and Rhonda Ryznar. Respond: Spin on New Urban Developments Too Positive, *Journal of the American Planning Association*, 70 (1): 99-100.
- 2004 Laurian, Lucie, Maxine Day, Philip Berke, Neil Ericksen, and Jan Crawford. Evaluating Plan Implementation: A Conformance-Based Methodology, *Journal of the American Planning Association*, 70 (4): 471-480.
- 2004 Manta-Conroy, Maria and Philip Berke. What Makes a Good Sustainable Development Plan? An Analysis of Factors that Influence Principles of Sustainable Development, *Environment and Planning A*, 36: 1381-1396.
 -Reprinted: Fitzgerald, Joan and Michael Motta, editor. 2012. *Cities and Sustainability*. Oxford, UK: Routledge Press.

- 2004 Laurian, Lucie, Maxine Day, Philip Berke, Neil Ericksen, and Jan Crawford. What Drives Plan Implementation? Plans, Planning Agencies, and Developers, *Journal of Environmental Planning and Management*, 47 (4): 555-577.
- 2006 Berke, Philip, Michael Backhurst, Luice Laurian, Jan Crawford, Maxine Day, Neil Ericksen, Jennifer Dixon. What Makes Successful Plan Implementation? An Evaluation of Implementation Practices of Permit Reviews in New Zealand, *Environment and Planning B*, 33 (4): 581-600.
- 2006 Berke, Philip and Thomas Campanella. Planning for Resiliency After Hurricane Katrina, *The Annals of the American Academy of Social and Political Sciences*, 604 (May): 192-208.
- 2006 Chang, Stephanie, Beverley J. Adams, Jacqueline Alder, Philip R. Berke, Ratana Chuenpagdee, and Shubharoop Ghosh, and Colette Wabnitz. Coastal Ecosystems and Tsunami Protection, *Earthquake Spectra*, 22 (S3): 863-877.
- 2008 Berke, Philip, Ratana Chuenpagdee, Kungwan Juntarashote, Stephanie Change. Human-Ecological Dimensions of Disaster Resiliency in Thailand: Social Capital and Aid Delivery, *Journal of Environmental Planning and Management*, 51 (2): 303-318.
- 2008 Bernhardt, Emily, Larry Band, C.E. Walsh, and Philip Berke. Understanding, Managing, and Minimizing Urban Impacts on Surface Water Nitrogen Loading, *Annals New York Academy of Sciences*, 1134: 61-96.
- 2008 Berke, Philip. The Evolution of Green Community Planning, Scholarship and Practice: An Introduction to the Special Issue on Green Communities, *Journal of the American Planning Association*, 74 (4): 393-407.
-Reprinted: Fitzgerald, Joan and Michael Motta, editor. 2012. *Cities and Sustainability*. Oxford, UK: Routledge Press.
- 2008 Stevens, Mark, Philip Berke, and Yan Song. Protecting People and Property: The Influence of Land Use Planners on Flood Hazard Mitigation in New Urbanist Developments, *Journal of Environmental Planning and Management*, 51 (6): 737-757.
- 2009 Berke, Philip and David Godschalk. Searching for the Good Plan: A Meta-Analysis of Plan Quality Studies, *Journal of Planning Literature*, 23 (3): 227-240.
-2009 Featured Article in Planning Magazine, March 2009.
-Declared by the American Institute of Certified Planners to be one of the "Comprehensive Planning Examination Selected Readings"
<http://www.planning.org/certification/examprep/selectedreading.htm>
- 2009 Berke, Philip. Integrating Bio-conservation and Land Use Planning: A Grand Challenge for the Twentieth First Century, *Vermont Journal of Environmental Law*, 10 (3): 407-434.
- 2009 Song, Yan, Philip Berke, and Mark Stevens. Smart Developments in Dangerous Locations? A Reality Check of Existing New Urbanism Developments, *International Emergencies and Mass Disasters*, 7 (1): 1-25.
- 2009 Berke, Philip, Yan Song, and Mark Stevens. Integrating Hazard Mitigation into New Urban and Conventional Developments, *Journal of Planning Education and Research*, 28 (4): 441-455.
- 2010 Horney, Jen, Pia McDonald, M. Willigen, Philip Berke, and Jay Kaufman. Individual Actual or Perceived Property Flood Risk: Did It Predict Evacuation from Hurricane Isabel in North Carolina, 2003? *Risk Analysis*, 30 (3): 501-511

- 2010 Stevens, Mark, Philip Berke, and Yan Song. Creating Disaster-resilient Communities: Evaluating the Promise and Performance of New Urbanism. *Landscape and Urban Planning* 94 (2): 105-115
-2010 Featured article in *Landscape Architecture*, May 2010
- 2010 Stevens, Mark, Philip Berke, and Yan Song. Public Participation in Local Government Review of Development Proposals in Hazardous Locations: Does it Matter, and What Do Local Government Planners Have to Do With it? *Environmental Management*, 45 (2): 320-335
- 2010 Stevens, Mark, Philip Berke, and Yan Song. New Urbanist Developments in Flood-prone Areas: Safe Development, or Safe Development Paradox? *Natural Hazards Review* 53(3): 605-629
- 2010 Berke, Philip, John Cooper, David Salvesen, Danielle Spurlock and Christina Rausch. Disaster Plans: Challenges and Choices to Build the Resiliency of Vulnerable Populations. *International Journal of Mass Emergencies and Disasters* 28(3): 368-394
- 2011 Berke, Philip, John Cooper, David Salvesen, Danielle Spurlock and Christina Rausch. Building Capacity for Disaster Resiliency in Six Disadvantaged Communities, *Sustainability* 3(1): 1-20
- 2011 BenDor, Todd K., Philip Berke, Dave Salvesen, Yan Song, and Nora Lenahan. Assessing Local Government Capacity to Manage and Model Military-Induced Growth in Eastern North Carolina. *Planning Practice and Research* 26(5): 531---553
- 2012 Berke, Philip, Gavin Smith and Ward Lyles. Planning for Resiliency: An Evaluation of State Hazard Mitigation Plans under the Disaster Mitigation Act. *Natural Hazards Review* 13(2): 139-149
- 2012 Berke, Philip and Bruce Galvovic. Ecosystem Services and Disaster Resiliency. *International Journal of Mass Emergencies and Disasters* 30(2): 182-197.
- 2012 Horney, Jennifer, Ashley Naimi, Ward Lyles, Matt Simon, David Salvesen, Philip Berke. Assessing the Relationship between Hazard Mitigation Plan Quality and Rural Status in a Cohort of 59 Counties from 3 States in the Southern United States. *Challenges* 3(2): 183-193
- 2013 Smith, Gavin, Ward Lyles, and Philip Berke. The Role of the State in Building Local Capacity and Commitment for Hazard Mitigation Planning, *International Journal of Mass Emergencies and Disasters* 31 (2): 178-203
- 2013 Berke, Philip, Danielle Spurlock, George Hess, and Larry Band. Local Comprehensive Plan Quality and Regional Ecosystem Protection: The Case of the Jordan Lake Watershed, North Carolina, U.S.A., *Land Use Policy* 31: 450-459. doi.org/10.1016/j.landusepol.2012.08.009
- 2013 Berke, Philip and Ward Lyles. Public Risks and the Challenges to Climate Adaptation: A Proposed Framework for Planning in the Age of Uncertainty. *Cityscape: Journal of Policy Development and Research* 15(1): 189-216
- 2013 Horney, Jennifer, Mai Nguyen, John Cooper, Mathew Simon, Kristin Ricchetti-Masterson, Shannon Grabich, David Salvesen, and Philip Berke. Accounting for Vulnerable Populations in Rural Hazard Mitigation Plans: Results of a Survey of Emergency Managers, *Journal of Emergency Management* 11(3): 205-211
- 2014 Lyles, Ward, Philip Berke, and Gavin Smith. Do Planners Matter? Examining Factors Driving Incorporation of Land Use Approaches into Hazard Mitigation Plans, *Journal of Environmental Planning and Management* 57(5): 792-811.
- 2014 Stevens, Mark, Ward Lyles, and Philip Berke. Measuring and Reporting Inter-coder Reliability in Plan Quality Evaluation Research, *Journal of Planning Education and Research* 34(1): 77-93

- 2014 Berke, Philip, Ward Lyles, and Gavin Smith. Impacts of Federal and State Hazard Mitigation Policies on Local Land Use Policy, *Journal of Planning Education and Research* 34(1): 60-76
- 2014 Lyles, Ward, Philip Berke, and Gavin Smith. A Comparison of Local Hazard Mitigation Plan Quality in Six States, USA., *Landscape and Urban Planning* 122 (February): 89-99.
- 2014 Berke, Philip, John Cooper, Meg Aminto, Shannon Grabeck, and Jen Horney. Adaptive Planning for Disaster Recovery and Resiliency: An Evaluation of 87 Local Recovery Plans in Eight States, *Journal of the American Planning Association* 80(4): 310-323.
- 2015 Horney, Jen, Matt Simon, Shannon Grabich, Philip Berke. Measuring Participation by Socially Vulnerable Groups in Hazard Mitigation Planning, Bertie County, NC. *Journal of Environmental Planning and Management* 58(5): 802-818.
- 2015 Berke, Philip, Jaekyung Lee, Galen Newman, Tabitha Combs, Carl Kolosna, David Salvesen. Evaluation of Networks of Plans and Vulnerability to Hazards and Climate Change: A Resilience Scorecard, *Journal of the American Planning Association* 81(4): 287-302.
-2016 Best Article Award, American Planning Association.
- 2015 Horney, Jen, Danielle Spurlock and Philip Berke. Capacity for Stakeholder Participation in Recovery Planning, *Planning Practice and Research* 31(1): 65-79
- 2016 Berke, Philip and Mark Stevens. Land Use Planning for Climate Adaptation: Theory and Practice, *Journal of Planning Education and Research* 36(3): 283-289.
- 2016 Lyles, Ward, Philip Berke and Gavin Smith. Local Plan Implementation: Assessing Conformance and Influence of Local Hazard Plans in the United States, *Environment and Planning B* 43(2): 381-400.
- 2016 Newman, Galen, Jaekyung Lee, and Philip Berke. Using the Land Transformation Model to Forecast Vacant Land, *Journal of Land Use Science* 11(4): 450-475.
- 2016 Horney Jen, Mai Nguyen, David Salvesen, Caroline Dwyer, Philip Berke. Assessing the Quality of Rural Hazard Mitigation Plans in the Southeastern U.S., *Journal of Planning Education and Research* 37(1): 56-66.
- 2016 Horney Jen, Mai Nguyen, David Salvesen, Olivia Tomasco, Philip Berke. Engaging the Public in Planning for Disaster Recovery, *International Journal of Disaster Risk Reduction* 17:33-37.
- 2016 Newman, G. J. H. Kim, Philip Berke, P., J. Merrill, Y. Wang, Q. Li. From Idle Grounds to Ecological Infrastructures: The Resilience Design of Manchester Neighborhood in Houston. *Landscape Architecture Frontiers* 4(5): 68-83.
- 2016 Berke, Philip. Commentary: Twenty Years After Campbell's Vision: Have we Achieved More Sustainable Cities? *Journal of the American Planning Association* 82(4): 380-383.
- 2016 Sansom, Garrett, Philip Berke, Thomas McDonald, Eva Shipp, Jennifer Horney. Confirming the Environmental Concerns of Community Members Utilizing Participatory-Based Research in the Houston Neighborhood of Manchester, *International Journal of Environmental Research and Public Health* 13(9), 839-851.
- 2016 Song, Yan, Mark Stevens, Jie Gao, Philip Berke, Yanping Chen. An Examination of Early New Urbanist Developments in the United States: Where are They Located and Why? *Cities* 61: 128-135

- 2017 Horney, Jen, Caroline Dwyer, Meg Aminto, Philip Berke, and Gavin Smith. Developing Indicators to Measure Post-disaster Community Recovery in the U.S. *Disasters* 49: 14-149. DOI: 10.1111/disa.12190
- 2017 Sansom, Garrett, Juan Parras, Anna Parras, Yudith Nieto, Philip Berke. The Impacts of Exposure to Environmental Risk in a Small Geographic Community in Houston, Texas, *Journal of Community Health* 42(4): 813-818: DOI: 10.1007/s10900-017-0322-y
- 2017 Horney, Jen, Matt Simon, Kristen Ricchetti-Masterson, Philip Berke. Resident Perception of Disaster Recovery Planning Priorities, *International Journal of Disaster Resilience in the Built Environment* 7(4): 330-343. DOI 10.1108/IJDRBE-09-2014-0068
- 2017 Portney, Kent, Arnie Vedlitz, Garrett Sansom, Philip Berke, Bassel T. Daher. Governance of the Water-Energy-Food Nexus: Conceptual and Methodological Foundations for the San Antonio Region Case Study, *Current Sustainable Renewable Energy Review* 4(3): 160-167 DOI 10.1007/s40518-017-0077-1
- 2017 Sperling, Josh, Philip Berke. Urban Nexus Science for Future Cities: Focus on the Energy-Water Food Nexus, *Current Sustainable Renewable Energy Review* 4(3): 173-179 DOI 10.1007/s40518-017-0085-1
- 2017 Munoz, Leslie, Francisco Olivera, Mathew Giglio, Philip Berke. The Impact of Urbanization on the Streamflows and the Floodplain Extent of the Sims Bayou in Houston, Texas, *The International Journal of River Basin Management* 16(1): 61-69. DOI 10.1080/15715124.2017.1372447
- 2018 Lyles, Ward, Philip Berke, KH Overstreet. Where to Begin Municipal Climate Adaptation Planning? Evaluating Two Early Choices, *Journal of Environmental Planning and Management* 61 (11): 1994-2014.
--Featured article in *Harvard Business Review*, Nov. 9, 2017
[hbr.org/2017/11/cities-should-start-small-when-adapting-to-climate-change]
- 2018 Malecha, Matt, Nikki Brand and Philip Berke. Spatially Evaluating a Network of Plans and Flood Vulnerability Using a Plan Integration for Resilience Scorecard: A Case Study in Feijenoord District, Rotterdam, the Netherlands. *Land Use Policy* 78: 147-157.
- 2019 Hendricks, Marcuss, Michelle Meyers, Nasir Gharaibeh, Jaimie Masterson, John Cooper, Jennifer Horney, Philip Berke. The Development of Participatory Assessment Technique for Infrastructure: Neighborhood Monitoring towards Sustainable Infrastructure Systems. *Sustainable Cities and Society*. 38: 265-274. DOI: 10.1016/j.scs.2017.12.039
- 2019 Berke, Philip, Matthew Malecha, Siyu Yu, Jaekyung Lee and Jaimie Masterson. Plan Integration for Resilience Scorecard: Evaluating Networks of Plans in Six US Coastal Cities, *Journal of Environmental Planning and Management*. 62(5): 901-920
doi/full/10.1080/09640568.2018.1453354
- 2019 Sansom, Garret, Jen Horney, Philip Berke. Evaluating the Impact of Race and Gender on Environmental Risk Perceptions in the Houston Neighborhood of Manchester, *Environmental Justice* 12(3) doi.org/10.1089/env.2018.0028
- 2019 Oti, Issac. Nasir Gharaibeh, Marccus Hendrick, Michelle Meyer, Shannon Van Zandt, Masterson, Jaimie, Horney, Jennifer A, Berke, Philip. Assessing the validity and reliability of drainage infrastructure monitoring data obtained from citizen scientists: results from a field study. *Journal of Infrastructure Systems* 25(3): (in press). DOI: [10.1061/\(ASCE\)IS.1943-555X.0000495](https://doi.org/10.1061/(ASCE)IS.1943-555X.0000495)
- 2019 Berke, Philip and Daniel Rodriguez. David Godschalk: A Planner's Lifelong Search for the Sweet Spot. *Journal of the American Planning Association* 85(1): (in press).

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- 2019 Berke, Philip, Siyu Yu, Matt Malecha, John Cooper. Plans that Disrupt Development: Equity Policies and Social Vulnerability in Six Coastal Cities. *Journal of Planning Education and Research*. doi.org/10.1177/0739456X19861144 (available on line).
- 2020 Newman, Galen, Malecha, Matt, Yu, Si, Qiao, Z., Horney, Jen, Lee, Jaekyung, Kim, Youung., Lee, R.J., and Berke, Philip. Integrating a Resilience Scorecard and Landscape Performance Tools into a Geodesign Process. *Landscape Research*. 45(1): 63-80. doi.org/10.1080/01426397.2019.1569219 --2020 Certificate of Research Excellence, Environmental Design Research Association
- 2020 Farahmand, Hamed, Shangjia Dong, Ali Mostafavidarani, Philip Berke, Sierra Woodruff, Bryce Hannibal and Arnie Vedlitz. Institutional Congruence for Resilience Management in Interdependent Infrastructure Systems. *International Journal of Disaster Risk Reduction* doi.org/10.1016/j.ijdr.2020.101515 (available online).
- 2020 Yu, Siyu, Nikki Brand, and Philip Berke. Making Room for the River: Applying a Plan Integration for Resilience Scorecard to a Network of Plans in Nijmegen, Netherlands, *Journal of the American Planning Association* 86:4, 417-430, DOI:10.1080/01944363.2020.1752776
- 2020 Li, Qingchun, Bryce Hannibal, Ali Mostafavi, Philip Berke, Sierra Woodruff, and Arnold Vedlitz. Examining of the Actor Collaboration Networks around Hazard Mitigation: A Hurricane Harvey Study. *Natural Hazards*: 103 (3): 3541-3562.
- 2020 Dong, Shangjia, Qingchun Li, Hamed Farahmand, Ali Mostafavi, Philip Berke, and Arnold Vedlitz. Institutional connectedness in resilience planning and management of interdependent infrastructure systems. *Journal of Management in Engineering* 36(6)
- 2021 Sierra Woodruff, Sara Meerow, Philip Gilbertson, Bryce Hannibal, Melina Matos, Malini Roy, Matthew Malecha, Siyu Yu, Phil Berke. Is flood resilience planning improving? A longitudinal analysis of networks of plans in Boston and Fort Lauderdale. *Climate Risk Management* 34, 100354
- 2021 Berke, Philip, Steve Quiring, Francisco Olivera, and Jen Horney. Addressing Challenges to Building Resilience through Interdisciplinary Research and Engagement, *Risk Analysis*. 41(7): 1248-1253 DOI: 10.1111/risa.13202
- 2021 Li, Qingshun, Ali Mostafavi, Philip Berke. A Plan Evaluation Framework for Examining Stakeholder Policy Preferences in Resilience Planning and Management of Urban Systems. *Environmental Science and Policy* 123: 125-134.
- 2021 Dong, Shangjia, Sierra Woodruff, Hamed Farahmand, , Matt Malecha Ali Mostafavi, Philip Berke Integrated Infrastructure-Plan Analysis for Resilience Enhancement of Post-hazards Access to Critical Facilities. *Cities* 117 doi.org/10.1016/j.cities.2021.103318
- 2021 Berke, Philip, Justin Kates, Matt Malecha, Jaimie Masterson, Paula Shea, and Siyu Yu. Using a Resilience Scorecard to Improve Local Planning for Vulnerability to Hazards and Climate Change: An Application in Two Cities. *Cities* 119 doi.org/10.1016/j.cities.2021.103408
- 2022 Spurlock, Danielle and Philip Berke. Intention and Action: Evaluating the Policy Antecedents of Development. *Sustainability* 14(7) doi.org/10.3390/su14073889
- 2022 Malecha, M, S Yu, M Roy, N Brand, P Berke. Plan Evaluation for Flood-Resilient Communities: The Plan Integration for Resilience scorecard. *Coastal Flood Risk Reduction*, 177-191
- 2023 Masterson J, A Katare, J Thapa, M Malecha, S YU and P Berke. Plan Integration and Plan Quality:

Combining Assessment Tools to Align Local Infrastructure Priorities to Reduce Hazard Vulnerability. *Sustainable and Resilient Infrastructure*, 8 (4), 359-374 DOI: 10.1080/23789689.2023.2165779

- 2023 Yu, Siyu, Galen Newman, Philip Berke, Xiao L. Plan Integration for Ecological Resilience: Examining Factors Associated with Wetland Alteration. *Journal of Planning Education and Research*, <https://doi.org/10.1177/0739456X231187117> (online).
- 2023 Keith, L. S Meerow, L. Jensen, S. Tego, EL Schmidt, P. Berke. Evaluating Urban Heat Mitigation Across Networks of Plans. *Journal of Planning Education and Research* DOI: 0739456X231215780

Chapters in Book

- 1993 Berke, Philip and Timothy Beatley. "Growth Management Tools and Techniques for Natural Hazard Mitigation." In *Awareness, Preparedness and Public Education for Earthquake Hazards*, Eds. David Gillespie and Dennis Mileti, U.S. Geological Survey Monograph Series, Palo Alto, California: 36-43.
- 1998 Berke, Philip. "Environmental Management Strategies for Coastal Storm Hazard Mitigation." In *The Encyclopedia for Housing*, Ed. Willem Van-Valiet, Sage Publications, Beverly Hills, CA: 154-157.
- 1998 Godschalk, David, Edward Kaiser and Philip Berke. "Land Use Planning and Natural Hazard Mitigation." In *Cooperating with Nature: Confronting Natural Hazards with Land Use Planning for Sustainable Communities*, Ed. Raymond Burby, John Henry Press, Washington, DC: 85-118.
-Reprinted in American Planning Association. 1999. *Modernizing State Planning Statutes: The Growing Smart Working Papers*. Planning Advisory Service #480/481. Chicago: APA Press: 57-82.
- 1998 Burby, Raymond, Timothy Beatley, Philip Berke and others. Policies for Sustainable Land Use. In *Confronting Natural Hazards with Land Use Planning for Sustainable Communities*, Ed. Raymond Burby, John Henry Press, Washington, DC: 263-292.
- 2000 Berke, Philip, Timothy Beatley, and Bruce Stiftel Ch.8, "Environmental Policy," in *The Practice of Local Government Planning* (Green Book), Eds. Frank So, Charles Hoch and Linda Dalton, Municipal Management Series, American Planning Association Press, Chicago Ill: 171-201.
-Selected as one of Top 20 Urban Planning Books of All Time by Planetizen (<http://www.planetizen.com/books/20>)
- 2000 Ericksen, Neil, Jenny Dixon and Philip Berke Ch. 11, "Managing Natural Hazards Under the Resource Management Act 1991. In *Environmental Planning and Management in New Zealand*, Eds. Ali Memon and Harvey Perkins, Dumore Press Ltd, Palmerston North, New Zealand: 123-132.
- 2007 Berke, Philip. "Ecology and New Directions for Land Use Planning: Barriers and Opportunities to Change." In *Lasting Landscapes: Reflection on the Role of Conservation Science in Land Use Planning*, Eds. R.I. Kihlslinger and J. Wilkinson, Environmental Law Institute Press, Washington, D.C.: 59-71.
- 2010 Berke, Philip. "Resilient Cities: Rising Global Risk and Catastrophes." In *Encyclopedia of Urban Studies*, Ed. Robert Beauregard, Beverly Hills, CA: Sage. 10 pp.
- 2010 Berke, Philip and Gavin Smith. "Hazard Mitigation, Planning, and Disaster Resiliency: Challenges and Strategic Choices for the 21st Century." In *Sustainable Development and Disaster Resiliency*, Ed. Urbano Fra: Amsterdam, The Netherlands: IOS Press: 1-23.

- 2010 Stevens, Mark, Philip Berke, and Yan Song. "Compact Urban Form: Resilient Communities or American Pompeii's." In *Floodplains: Physical Geography, Ecology and Societal Interactions*, Ed. Mark Alvarez: New York: Nova Science Publishers: 107-134.
- 2014 Berke, Philip. "Rising to the Challenge: Planning in the Age of Climate Change," In *Adapting to Climate Change: Lessons from Natural Hazards Planning*, Eds. Bruce Glavovic and Gavin Smith, London: Springer: 171-192.
- 2019 Berke, Philip and David Godschalk. "Best Practice Standards for Regional Land Use Planning: Evaluating Land Use Plan Quality. In *The Dynamics of Land Use and Ecosystem Services; A Transatlantic, Multidisciplinary and Comparative Approach*, Eds. Floor Brouwer and Stephan Goetz, London: Springer (in press).
- 2019 Berke, Philip and Ward Lyles. "A General Framework for Analyzing Planning for Community Resiliency." In *Routledge Handbook of Disaster Resilience: Integrating Mitigation, Preparedness, and Recovery Planning*. Ed. Mike Lindell, New York: Routledge Press: 92-98.
- 2022 Malecha M, S Yu, M Roy, N Brand, P Berke. 2022. Ch. 14: Plan evaluation for flood-resilient communities: The plan integration for resilience scorecard, *Coastal Flood Risk Reduction*, Elsevier Press: 177-191
- 2022 Roy, Malini and Philip Berke. 2022. Social Equity, Land Use Planning, and Flood Mitigation. Oxford Research *Encyclopedia of Environmental Science*. Ed. Dale Whittington: Oxford University.
- 2022 Hendricks, Marccus and Philip Berke. "Community Resilience to Environmental Hazards and Climate Change: In *Handbook on Smart Growth*. Ed. Gerrit Knapp, Rebecca Lewis, Arnab Chakaborty, and Katy June-Friesen. Edward Elgar Publishing: 277-290.

Books:

- 1991 Ruch, Carlton, Philip Berke, H. Crane Miller and Norris Stubbs. *The Feasibility of Vertical Evacuation: Behavioral, Legal, Political and Structural Considerations*, , Institute of Behavioral Science Monograph 52, University of Colorado, Boulder, Colorado: 310 pp.
- 1992 Berke, Philip and Timothy Beatley *Planning for Earthquakes: Risk, Politics and Policy*. Johns Hopkins University Press, Baltimore, Maryland: 245 pp.
- 1997 Burby, Raymond and Peter May with Philip Berke, Linda Dalton, Steven French and Edward Kaiser, *Making Governments Plan: Experiments in Managing Land Use*. Johns Hopkins University Press, Baltimore, Maryland: 225 pp.
- 1997 Berke, Philip and Timothy Beatley. *After the Hurricane: Linking Recovery to Sustainable Development in the Caribbean*, Johns Hopkins University Press, Baltimore, Maryland: 250 pp.
- 1999 Godschalk, David, Timothy Beatley, Philip Berke, David Brower and Edward Kaiser, *Natural Hazard Mitigation: Recasting Disaster Policy and Planning*. Island Press, Washington: 573 pp. -Declared by the American Planning Association to be one of the "100 Essential Books in Planning" over past 100-years (see <http://www.planning.org/centennial/greatbooks/>)
- 2004 Ericksen, Neil, Philip Berke, Jan Crawford, and Jennifer Dixon. *Plan-making for Sustainability: The New Zealand Experience*. Ashgate Publishers, London: 350 pp.
- 2006 Kreps, Gary, Philip Berke, Tom Birkland, Stephanie Chang, Susan Cutter, Michael Lindell, John Sorensen, Kathleen Tierny, and Alan Wallace. *Facing Hazards and Disasters: Understanding Human Dimensions*, National Academy Press, Washington, D.C.: 395 pp.

- 2006 Esnard, Ann-Margaret, Philip Berke, Edward Kaiser, and David Godschalk. *Hypothetical City Workbook: Exercises, Spreadsheets, and GIS Data to Accompany Urban Land Use Planning (Fifth Edition)*, University of Illinois Press, Chicago: 122 pp.
- 2006 Berke, Philip, David Godschalk and Edward Kaiser with Daniel Rodriguez. *Urban Land Use Planning*, 5th Edition, University of Illinois Press, Chicago: 492 pp.
 -Translated into Simplified Chinese by China Architecture and Building Press, 2010.
 -Complex Chinese by Wu-Nan Books, 2009.
 -Declared by the American Institute of Certified Planners' to be one of the "Comprehensive Planning Examination Selected Readings" (see <http://www.planning.org/certification/examprep/selectedreading.htm>)
- 2014 Luetlich, Rick, Greg Baecher, Susan Bell, Philip Berke, and others. *Reducing Coastal Risk on the East and Gulf Coasts*. National Academy Press, Washington, D.C.: 167 pp.

Ph.D. Students:

Maria Manta-Conroy, Ph.D. 2001, Assoc. Prof., Ohio State University
 Lucie Laurian, Ph.D. 2003, Full Prof., University of Iowa
 Sam Brody, Ph.D. 2003, Full Prof., Texas A&M University
 John Cooper, Ph.D. 2005, Assistant Vice President of Public Partnership, Texas A&M University
 Joseph McDonald, 2006, Senior Analyst, Am Planning Assoc., Washington, D.C.
 Aurélie Brunie, 2007, Scientist for Family Health International, Research Triangle Park, NC
 Mark Stevens, 2008, Assoc. Prof., University of British Columbia, Canada
 Ward Lyles, 2012, Assist. Professor, University of Kansas
 Danielle Spurlock, 2015, Assist. Prof., University of North Carolina-Chapel Hill
 Siyu Yu, 2019, Assistant Professor, Texas A&M University
 Matt Malecha, 2019, Post doc, Johns Hopkins University

Current students: Malini Roy

Editorial Services:

Senior Editor, *Climate Change and Water Policy*, Oxford University Press, 2020-present
 Special Issues Editor, *Climate Change, Journal of Planning Education & Research*, 2014-15
 Editorial Board, *International Review of Civil Engineering*, 2011-present
 Editorial Board, *Journal Land*, 2011-present
 Special Issue Editor, Green Communities, *Journal of the American Planning Association*, 2007-08
 Associate Editor, *Journal of the American Planning Association*, 2006-present.
 Editorial Board, *Journal of the American Planning Association*, 2000-2006.
 Editorial Board, *Journal of Architectural Research and Planning*, 1998-present
 Associate Editor, special theme issues, *Journal of Architecture and Planning Research*, 1993-1997
 Editor, Architectural Research Centers Consortium Research, *ARCC Newsletter*, 1986-1989

Participation in Major Programs and Committees since 2010:

2023 Member, Search Committee for the Editor, *Journal of the American Planning Association*
 2022-present: Site Visitor, Planning Accreditation Board (2023)
 2022-24: Member, Project Advisory Committee, Strengthening Coastal Communities Resilience in the Great Lakes Region, Association of State Floodplain Managers, American Planning Association, Coastal States Organization, and Great Lakes Sea Grant Network
 2020-22: Member, Advisory Committee, Resilient America Program, National Academy of Sciences, Engineering and Medicine
 2020: Member, Advisory Group, Advancing the Theory and Practice of Urban Heat Resilience, Aspen Global Change Institute
 2018-19: Member, *Journal of the American Planning Association* Governance Committee and APA/JAPA Task Force
 2017-18: Advisory Committee, Academic Hazards and Disaster Research Centers Coalition, Natural

Hazards Center, University Colorado

2017-18: Advisory Committee, NSF supported study, Social Science Extreme Events Reconnaissance Platform, Natural Hazards Center, University Colorado

2017: External Review Committee, Doctoral Program in Community & Regional Planning, University of Texas-Austin

2017-present: Member, Technical Advisory Committee, Planet Texas 2050, the University of Texas at Austin

2015-18: Member, Comprehensive Plan Standards Recognition Program Working Group, American Planning Association, Chicago

2016-20: Advisory Board of the Urban Institute for Rockefeller Global 100 Resilient Cities Program.

2015: Review Panel, Water Science and Technology Panel, National Research Council/National Academy of Sciences, Washington, D.C.

2015-18: Member, Best Article Award Committee, Journal of the American Planning Association

2015: National Science Foundation Review Panel, Hazards SEES, Washington, D.C.

2014: National Science Foundation Review Panel, Geography and Spatial Sciences Program, Washington, D.C.

2013-14, 2014-16: Member, ACSP John Friedman Book Award Committee for Planning Sustainability

2013-14: Member, Committee on U.S. Army Corps of Engineers Water Resources Science, Engineering, and Planning: Coastal Risk Reduction, National Research Council/National Academy of Sciences, Washington, D.C.

2013-16: Expert Panel on River Diversion Planning and Implementation, The Water Institute of the Gulf, Baton Rouge, Louisiana

2013-14: Member, Committee on Carolinas Climate Resilience, National Oceanic and Atmospheric Administration

2013 (March): International Program on Climate Change (IPCC) Review Panel, ch. 12: Human Settlements, Infrastructure and Spatial Planning

2013 (March): Member of Review Panel, National Science Foundation Review Panel, Coastal SEES Program

2012 (May-October): Co-Chair: Urban Sustainability Advisory Committee, Environmental Protection Agency, Research Triangle Park, NC

2010-12: Member, Science and Engineering Board for 2012 Update of Louisiana's Master Plan for Coastal Protection and Restoration, LA Office of Coastal Protection and Restoration

2012 (March): Participant, Disaster Recovery and Resiliency Workshop, National Academy of Sciences, Washington, D.C.

2011: EPA Advisory Council on Community Resilience Planning for Sea Level Rise in North Carolina

2010-11: Member, Steering Committee for a Proposed Cross-Directorate Program on Disaster Resilience, Vulnerability, and Risk Reduction, National Science Foundation

2010 (March): Participant, Rebuilding for Resilience: How Science and Engineering Can Inform Haiti's Reconstruction, UN International Strategy for Disaster Reduction and US AID, University of Miami, FL

2009 (October)-present: Member, Test Specification Task Force, American Institute of Certified Planners (AICP), Advanced Specialty Certificate Project, Environmental Planning Division, American Planning Association, Washington, D.C.

2009 (June)-present: Member, NC Sea Level Rise Risk Management Study Advisory Committee, Raleigh, NC

2009 (May): National Science Foundation Review Panel, Infrastructure Management and Extreme Events, Washington, D.C.

2008 (Jan. to June): Member, Steering Committee on Resiliency and Vulnerability Observatory Network (RAVON), National Science Foundation, Washington, D.C.

2006-11: Member, Scientific Advisory Council, French Association of Disaster Prevention (AFPCN), Paris, France

2006-09: Member, Conservation Thresholds Advisory Committee, Environmental Law Institute, Washington, D.C.

- 2006-07: Member, Land Use and Growth in the West Research and Policy Roundtable, Sonoran Institute, Phoenix
- 2005-08: Member, Steering Committee on Southeast Regional Planning and Sustainability, Department of Defense, Washington, D.C.
- 2006-09: NC Low Impact Design Manual, Watershed Education Program for Communities and Officials, NC State University.
- 2006-08: Coastal Land Use Policy Work Group, Department of Natural Resources, Raleigh, NC.
- 2005: Chair, Committee on Best Book Review Award, Journal of the American Planning Association
- 2004-present: Vice Chair, Town of Chapel Hill Stormwater Utility Advisory Board.
- 2003-05 Member, Committee on Disaster Research and the Social Sciences, National Research Council of the National Academy of Sciences, Washington, D.C.
- 2004 Member, Biocomplexity Review Panel, National Science Foundation, Washington, D.C.
- 2003 Member, Natural Hazards Review Panel, National Science Foundation, Washington, D.C.
- 2003 Member, Stream Classification Advisory Committee, Environmental Services Division, Town of Chapel Hill
- 2001 Chair, Committee on National Planning Award for Best Article, American Planning Association.
- 2001-02 Advisory Board Member, Center for Disaster Management and Humanitarian Assistance, University of South Florida, Tampa, Florida.
- 2000-02 Member, Regional Greenspace Technical Advisory Committee, Triangle J Council of Governments, Research Triangle Park, NC
- 2000-02 Co-chair, Stormwater Utility Task Force, Town of Chapel Hill, NC
- 2000-01 Member, Technical Advisory Group for the Cary Open Spaces and Historic Resources Plan, Town of Cary, NC
- 1999-00 Member, Ad Hoc Advisory Committee for the National Plan Quality Improvement Project, Ministry for the Environment, Wellington, New Zealand
- 1999 Member, Heinz Foundation Review Panel on Disaster Information and Communication, Washington, DC
- 1999-00 Member, Smart Growth Working Group, assisted Lieutenant Governor's staff in developing growth development legislation for state.
- 1997 Member, Sustainable Development Network Working Group, Research Triangle Metropolitan Area, NC
- 1997 Member, Regional Development Scenarios Committee, Triangle J Council of Governments, Research Triangle Park, NC
- 1996 Governor's Task Force on Hurricane Fran, Raleigh, NC
- 1995-97 Member, two National Hazard Research Assessment Panels on Disaster Recovery; and Land Use Planning and Mitigation, Natural Hazards Research and Applications Information Center, University of Colorado (supported by the National Science Foundation)
- 1995 Member, Conference Program Committee, North Carolina Planning Conference
- 1993 Member, Environmental Ethics and Sustainable Development Advisory Group, Ministry for the Environment, Wellington, New Zealand
- 1993 Member, Sustainable Development and Natural Hazards Mitigation Roving Seminar Advisory Committee, UNESCO, Guadeloupe, Caribbean
- 1992 Panelist, Partners of the Americas Urban Infrastructure Renewal Program, Guadalajara, Mexico
- 1991 Panelist, National Center for Earthquake Engineering Advisory Group on National Earthquake Policy
- 1990-1991 Panelist, National Earthquake Hazard Reduction Program, U.S. Geological Survey
- 1989 Member, Natural Hazards Advisory Group, South Carolina Sea Grant Consortium
- 1988 Panel reviewer, National Research Council Panel on Seismic Safety Policy, National Academy of Sciences
- 1988 Member of Advisory Group, Crisis Management Program, American Institute of Architecture, Washington, DC
- 1987 Panel reviewer, Earthquake Systems Integration Program, National Science Foundation

External Grants

- 1983 Ruch, Carlton (principal investigator), Norris Stubbs and Philip Berke (co-principal investigators). Vertical Evacuation, funded by the National Science Foundation, \$250,000 (September 1983 to 1987).
- 1984 Berke, Philip (principal investigator). Transportation Contingency Planning for Response to an Energy Crisis, funded by the Center for Energy and Mineral Resources, \$21,400 (September 1984 to 1985).
- 1984 Berke, Philip (principal investigator). Hurricane Hazard Reduction Through Land Use Management, funded by Texas A&M University Sea Grant Program, National Oceanic and Atmospheric Administration (NOAA), \$56,000 (July 1984 to 1985).
- 1984 Berke, Philip (principal investigator). Decision Processes and Risk Analysis-Siting of Critical Facilities in High Hazard Coastal Zone, funded by the Office University Research, Texas A&M University, \$2500 (Summer 1985).
- 1986 Berke, Philip (principal investigator), and Jesus Hinojosa (co-principal investigator). Earthquake Risk Management and Land Use Planning. Funded by the National Science Foundation, \$91,000 (January 1986 to 1989).
- 1988 Berke, Philip (principal investigator), Benigno Aguirre and Timothy Beatley (co-principal investigators). Reconstruction Following Hurricane Gilbert in Jamaica and Mexico, Funded by the National Science Foundation, \$50,000 (December 1988 to 1990).
- 1989 Hull, Bruce (principal investigator), Philip Berke, Dennis Wenger, and Dan MacGilvray (co-principal investigators). Reconstruction After Hurricane Hugo: An Assessment of the Mitigation and Long-Term Recovery Process in Relation to Prior Seismic Mitigation Activities and Place Specific Sense of Community, funded by the National Science Foundation, \$50,000 (December 1989 to 1991).
- 1990 Berke, Philip and Dennis Wenger (co-principal investigators). Post-Disaster Response and Reconstruction After Hurricane Hugo in the Eastern Caribbean, funded by the United Nations Division of Humanitarian Affairs, \$18,000 (June 1990 to 1990).
- 1991 Burby, Raymond, University of North Carolina (principal investigator and director), Berke, Philip (principal investigator) and others. The Use of Land Use Planning and State Planning Mandates in Hazard Mitigation: A Comparative Evaluation of State and Local Experience, funded by the National Science Foundation, \$263,500, \$43,000 subcontracted to Texas A&M University, (September 1990 to 1993).
- 1991 Berke, Philip (principal investigator). Land Resource Suitability Analysis for the Guadalupe River Corridor, Kerrville, Texas, Department of Planning, \$12,000, (Spring 1993).
- 1993 Berke, Philip (principal investigator). Evaluation of Natural Hazard Elements of Local and Regional Resource Management Plans in New Zealand, New Zealand Educational Foundation Grant, \$3,000, (Summer 1993).
- 1993 Berke, Philip (principal investigator). Assessment of the State-of-Practice of Local Growth Management and Hazard Mitigation Programs. Federal Emergency Management Agency through the Texas Division of Emergency Management, \$16,000 (October 1993 to 1994).
- 1995 Berke, Philip (principal investigator). Shaping Sustainable Communities: The Challenge for Planning and Growth Management in the 1990s and Beyond. Lincoln Institute of Land Policy, \$55,000 (March 1995 to 1998).
- 1994 Godschalk, David (principal investigator); Timothy Beatley, Philip Berke, David Brower and Edward Kaiser (co-principal investigators). Assessing Planning and Implementation of Hazard Mitigation Under the Stafford Act, National Science Foundation, \$245,000 (May 1994 to 1996).
- 1995 Berke, Philip, Neil Ericksen and Jennifer Dixon (principal investigators), Planning Under a Cooperative Mandate: Phase I: Plan Making Under The Resource Management Act of 1991. New Zealand Foundation for Research, Science and Technology, \$600,000 with \$70,304 subcontracted to the University of North Carolina (July 1995 to 1998).
- 1997 Kincaid, Judy (principal investigator), with subcontract to UNC-Mary Beth Powell and Philip Berke (co-principal investigators). Industrial Ecosystem Development Project, Environmental Protection Agency, \$32,614, (May 1997 to 1998).
- 1998 Berke, Philip, Neil Ericksen and Jennifer Dixon (principal investigators). Planning Under a Cooperative Mandate: Phase II: Plan Implementation Under the Resource Management

- Act of 1991, New Zealand Foundation for Research, Science and Technology, \$800,000 with \$165,433 subcontracted to the University of North Carolina (July 1998 to 2002).
- 1998 Burby, Raymond (principal investigator), Philip Berke and David Godschalk (co-principal investigators), Public Involvement in Planning and Local Government Commitment, National Science Foundation, \$294,303; \$86,888 subcontracted to the University of North Carolina, (August 1998 to 2001).
- 2000 Berke, Philip (principal investigator) and Nancy White (co-principal investigators), Water Quality and Quantity Impacts of Urban Development: A Comparative Analysis of Compact and Low-Density Developments, North Carolina Water Resources Research Institute, \$80,000, (July 2000 to 2003).
- 2003 Berke, Philip, Neil Erciksen, Jan Crawford, and Jennifer Dixon (principal investigators). Planning Under a Cooperative Mandate: Phase III: Environmental Outcomes from Planning Under the Resource Management Act of 1991, New Zealand Foundation for Research, Science and Technology, \$750,000 with \$140,000 subcontracted to the University of North Carolina (July 2003-2004).
- 2004 Berke, Philip (principal investigator), and Yan Song and David Salvesen (co-principal investigators), The Effects of New Urban Developments Compared to Conventional Low-Density Developments on Natural Hazard Mitigation, National Science Foundation, \$398,000 (September 2004-2007).
- 2005 Berke, Philip (principal investigator), Stephanie E. Chang, William Rees, Jackie Al (co-Principal investigators), The Role of Coastal Ecosystem Degradation in Tsunami Damage, National Science Foundation, \$95,000 (January 2005-2006).
- 2005 Berke, Philip (principal investigator), Jim Fraser, and David Salvesen (co-principal investigators), Emergency Demonstration Project for Disadvantaged Communities, Federal Emergency Management Agency, \$2.0 million with \$900,000 subcontracted to the University of North Carolina (May 2005-August 2009).
- 2008 Berke, Philip (co-principal investigator) and Dave Salvesen (principal investigator), Wildlife Conservation in Coastal and Floodplains, American Biological Sciences Foundation \$210,000 (June 2008-May 2010).
- 2008 Berke, Philip (principal investigator), Todd Bendor, David Salvesen and Yan song (co-principal investigators), Building Local Capacity to Plan: An Evaluation of Land Use and Impact Assessment Models for Application to Eastern North Carolina, Southeast Regional Partnership for Planning and Sustainability, \$137,000 (July 2008- August 2009).
- 2008 Berke, Philip (one of 13 co-principal investigators), Rick Luettich (principal investigator), Science and Technology Directorate of the Department of Homeland Security, \$17 million, with \$1,030,000 for Coastal Resiliency and Land Use Planning, (Berke, principal investigator) (July 2008-June 2014).
- 2009 Berke, Philip (co-principal investigator) and Larry Band (principal investigator), Reconciling Human and Natural Systems for the Equitable Provision of Ecosystem Services in the Triangle of North Carolina, National Science Foundation, \$300,000 with \$93,000 subcontracted to the University of North Carolina (September 2009-2011).
- 2010 Berke, Philip (principal investigator), Gavin Smith (co-principal investigator), An Evaluation of the Floodplain Management Plans under the Community Rating System of the National Flood Insurance Program, Federal Emergency Management Agency, \$140,000 (2010-11).
- 2010 Berke, Philip (one of 3 co-principal investigators), Jen Horney (principal investigator) Understanding Rural Vulnerability to Natural Hazards: Mitigation Plans, Planning Processes and Outcomes. National Science Foundation, \$377,000 (2010-13)
- 2011 Berke, Philip (co-principal investigator), Jennifer Horney (principal investigator), The Effects of Pre-Disaster Recovery Plans on Post-Disaster Recovery Among Socially Vulnerable Populations, National Science Foundation, \$455,000 (September 2011-14).
- 2014 Berke, Philip (principal investigator), Local Planning Networks and Neighborhood Vulnerability Indicators to Floods and Sea Level Rise, Science and Technology Directorate of the Department of Homeland Security, \$100,098 (July 2014-15).
- 2015 Berke, Philip (principal investigator), Eric Bardenhagen and Galen Newman (co-principal investigators), NSF PIRE- Coastal Flood Risk Reduction Program: Integrated, Multi-scale Approaches for Understanding How to Reduce Vulnerability to Damaging Events, Sam

- Brody Lead PI at TAMU-Galveston, National Science Foundation, \$3.9 million with \$200,000 sub-award to TAMU-College Station. (September 2015-20).
- 2016 Berke, Philip (principal investigator), Local Planning Networks and Neighborhood Vulnerability Indicators to Floods and Sea Level Rise, Science and Technology Directorate of the Department of Homeland Security, \$300,000 (January 2016-19).
- 2016 Berke, Philip (one of 3 co-principal investigators), Nasir Gharaibeh (principal investigator). Citizen Science for Infrastructure Monitoring at the Neighborhood Level, National Science Foundation, \$100,000 (September 2016-17).
- 2017 Berke, Philip, (one of three co-principal investigators), Ali Mostafavidarani (principal investigator); Inter-organizational Dynamics in Human Systems that Govern Interdependent Infrastructure Systems under Urban Flooding, National Science Foundation RAPID, \$300,000 (September 2017-18).
- 2018 Berke, Philip (principal investigator), Jaimie Masterson (co-principal investigator), Local Application the Plan Integration for Resilience Scorecard (PIRS) to Practice, Science and Technology Directorate of the Department of Homeland Security, \$402,000 (January 2018-20).
- 2018 Berke, Philip (principal investigator), Jaimie Masterson (co-principal investigator), Floodplain Management Regulations Compliance, Federal Emergency Management Agency, \$86,000 (January-December 2018)
- 2019 Berke, Philip (Principal investigator). Recovery Planning After Hurricane Harvey: A Resilience Scorecard. Texas One Gulf Program, \$70,000 (January-December 2019).
- 2019 Berke, Philip (one of three co-principal investigators), Ali Mostafavidarani (principal investigator); Anatomy of Coupled Human-Infrastructure Systems Resilience to Urban Flooding: Integrated Assessment of Social, Institutional Planning, and Physical Networks, National Science Foundation, \$2.0 million (January 2019-23).
- 2021 Berke, Philip (co-principal investigator), Siyu Yu (principal investigator). Expanding the Reach, Influence, and Implementation of the Plan Integration for Resilience Scorecard™ (PIRS™), DHS Office of Science and Technology, \$1.3M with \$260k sub-award to UNC-CH (2021-2024).
- 2021 Berke, Philip (one of two co-principal investigators), Cassandra Davis (principal investigators); A Landscape Study of Social Equity Data Needs and its Access and Availability to Support the Disaster Resilience of Marginalized Communities, Science and Technology Directorate of the Department of Homeland Security, \$1.1 million (January 2021-24).

Internal Grants

- 2014 Berke, Philip (principle investigator), Presidential Hire Award, \$600,000 (2014-18).
- 2016 Berke, Philip (principal investigator). Support for the Texas A&M University Environmental Grand Challenge, Texas A&M Provost Office and College of Architecture, Engineering, Geoscience, and Health Sciences, \$1.4 million (2016-20).

Books Reviewed:

- 1985 *Hurricane Alicia, Galveston and Houston*, Rudolf Savage and others, National Academy of Sciences, 1984, reviewed by Philip Berke, *International Journal of Disasters and Mass Emergencies*, Vol. 3, 1985, pp. 58-60.
- 1990 *Managing Disasters: Strategies and Policy Perspectives*, edited by Louise Comfort, Duke University Press, 1989, reviewed by Philip Berke, *Journal of the American Planning Association*, Vol. 56, No. 3, 1990, pp. 303-304.
- 1995 *Ecosystem Rehabilitation*, edited by Mohan K. Wali, SPB Academic Publishing 1992, reviewed by Philip Berke, *Landscape and Urban Planning*, Vol. 21, 1995, pp. 213-216.
- 1998 *Green Development: Integrating Ecology and Real Estate*, Rocky Mountain Institute, John Wiley and Sons, 1998, reviewed by Philip Berke, *Urban Land*, June 1998, p. 102.
- 2001 *The Land that Could Be: Environmentalism and Democracy in the Twenty-First Century*, William Shutkin, MIT Press, 2000 and *Toward Sustainable Communities: Transition and Transformations in Environmental Policy*, Edited by Daniel Mazmanian and Michael Kraft, MIT Press, 1999,

reviewed by Philip Berke, *Journal of Planning Education and Research*, Vol. 20, No. 1, 2001, pp. 499-502.

- 2015 The Environmental Planning Handbook, Island Press, Tom Daniels, *Journal of the American Planning Association* (in press).

Selected Presentations (past 5 years):

- 2016* Institutionalizing Resilience Planning, December, Rockefeller Foundation 100 Resilient Cities Workshop, Urban Institute, Washington, DC
- 2017* Resilience and Climate Change Cooperative Project, March, Dept. of City & Regional Planning, University of North Carolina, Chapel Hill, NC
- 2017* The Next Generation of Sustainability Planning, February, Dept. of City & Regional Planning, University of Pennsylvania, Philadelphia
- 2017* Resilience and Climate Change Cooperative Project, March, College of Architecture, University of Texas, Austin
- 2017* The Past and Future of Sustainability Planning and Design in an Uncertain Era, March, Taubman College of Architecture and Urban Planning, University of Michigan, Ann Arbor
- 2017* Update A Cross-Cultural Comparative Evaluation of Community Resilience Plans, June, Planning for Flood Resilience Seminar, College of Architecture and Built Environment, Delft Technological University, Netherlands
- 2017* Coastal Land Use Planning and Risk Management, July, National Academy of Sciences Coastal Zone Dynamics Workshop, Houston
- 2017* A Guidebook + A Scorecard = An Integrative Framework for Community Resilience, Natural Hazards Workshop, July, Broomfield, Colorado
- 2017* Insurance Incentives and Coastal Land Use Planning, August, Environmental Defense Fund, Washington, DC
- 2017* A Reset for U.S. Natural Hazards Policy: What might it look like? How might it be accomplished? American Assoc. for the Advancement of Science, Nov. 15, Washington, DC.
- 2017* Recasting Land Use Policy for U.S. Natural Hazard Mitigation, Presentation to Congressional Staff, Capitol Hill, Nov. 16, Washington, D.C.
- 2018* Land Use Planning for Community Resilience, PrepTalk Symposium: A New Perspective for Emergency Managers, George Washington University, January 29, Washington, D.C.
- 2018* Mitigation Planning for Resilient Cities. Coastal Resilience Center ReTalk Webinar, March 8, Johnson C Smith University, Charlotte, NC
- 2018* Mitigation Planning for Resilient Cities, College of Architecture, Planning, and Landscape Architecture Lecture Series, University of Arizona, March 21, Tucson.
- 2018* Plan Integration Scorecard for Resilience, National Training Webinar for FEMA Region Mitigation Planning Staff, June 6.
- 2018* Flood Resilient Urban Development: An Oxymoron in Houston, TX, Seminar Multi-Layered Flood Safety: The Netherlands meets the United States, College of Architecture and Built Environment, Delft Technological University, Netherlands, May 18.
- 2019* Mitigation Planning for Resilient Cities: A Resilience Scorecard, January 24, Kinder Institute, Rice University, Houston.
- 2019* Enhancing Policy Coordination and Community Resilience to Hazards and Climate Change, College of Architecture, January 23, 2019, University of Michigan, Ann Arbor.
- 2019* Application of the Plan Integration for Resilience Scorecard to Practice, DHS Science & Technology Directorate Showcase Summit, July 11, 2019, George Mason University, Washington DC
- 2019* City Planning for Resilience: Networking Across Planning, Infrastructure and Social Domains, Keynote Talk, September 7, Hunan University, Changsha, China
- 2019* Characteristics, Causes and Outcomes of Plans: A Review a Decade of DHS Supported Research on and Actions of Mitigation Planning, Presentation to the FEMA Planning Effectiveness Committee (PEC), Nov. 7, 2019, Washington, DC
- 2019* Real World Results: A Guidebook + A Scorecard = An Integrative Framework for Community

- Resilience Planning, Panel presentation RISE 2019: Transforming University Engagement in Pre- and Post-disaster Environments, Nov.18, State University of New York-Albany, Albany, NY.
- 2020* Application of a Plan Integration for Resilience Scorecard: Lessons from Local Practice. Flood Apex Review Board, Jan. 22-23, Washington, D.C.
- 2020* An Integrative Framework for Community Resilience Planning. Disciplines 101 Seminar Series: CoAST Collaboratory for Coastal Adaptation over Space & Time, Oct. 22, UNC/Duke/NC State [online]
- 2020 Integrating Resilience into Networks of Plans: The Experience of Two Cities, Association of the Collegiate Schools of Planning, Nov. 8 [online].
- 2021* Integrated Resilience Planning: Bridging Deep Divides that Threaten Our Future, Institute for Coastal Adaptation and Resilience Seminar Series, Old Dominion University, Feb 1 [online].
- 2021* Exploring Approaches Plan Integration, FEMA Region 3: Philadelphia, May 5 [online] <https://content.govdelivery.com/accounts/USDHSFEMA/bulletins/2d52377>.
- 2022 Improving the Quality of Individual Plans and Integration of Networks of Plans: An Application to a Low-capacity Community Vulnerable to Disasters and Climate Change, Association of the Collegiate Schools of Planning, Oct. 7 [online].
- 2022* Integrated Planning for Urban Resilience: Challenges and Opportunities in the Age of the Anthropocene, American Meteorological Society Workshop on the Workforce in Climate + Urban Planning, May 5, 2022 [online]
- 2022* Social Equity Data Needs and its Access and Availability to Support the Disaster Resilience of Marginalized Communities, FEMA National Advisory Council, July 14, 2022 [online]
- 2022 Shaping Plans through Sustainability and Resilience Concepts, Association of the Collegiate Schools of Planning, Nov. 5, Toronto, Canada.

*Invited presentation

Service: Texas A&M University:

University:

- Member, Strengthening Democracy Grand Challenge Committee, College of Liberal Arts, 2015-20
- Appointed by Office of VP for Research to lead 8 centers and institutes under the TAMU Climate and Environment Grand Challenge
- Director, Institute of Sustainable Communities at TAMU College Station, 2016-present
- Member, Administrative Council, Texas A&M Hagler Institute for Advanced Study, 2016-2019
- Member, Faculty Advisory Bd, A&M-Ocean University of China (OUC) Collaborative, 2017-18.
- Member, Advisory Committee, Water-Energy-Food Nexus Network, 2017-present
- University Leader for Environment & Climate Change, Center and Institute Directors Council, TAMU College Station, 2017-present

College of Architecture:

- Member, LAUP Head search committee, 2015-16
- Member, Center for Health Systems and Design Director search committee, 2015-16
- Member, LAUP Head search committee, 2017-18

Department of Landscape Architecture and Urban Planning:

- Member, Promotion and Tenure Committee, 2015-20
- Member, LAUP Faculty search committee, 2016-17
- Member, URSC PhD committee, 2014-present
- Member, Master of Urban Planning Committee, 2014-present