

COLIN POLSKY

Florida Atlantic University
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PROFESSIONAL POSITIONS:

Florida Atlantic University, Davie/Boca Raton, FL.

- 2014- present, Director of the Center for Environmental Studies; Professor of Geosciences

Clark University, Worcester, MA.

- 2009- 2014, Associate Professor; 2003 – 2009, Assistant Professor, Graduate School of Geography & George Perkins Marsh Institute
- 2011-2012, Associate Dean for Undergraduate Research, Clark University

Harvard University, Cambridge, MA.

- 2001-2003, NOAA/UCAR Climate & Global Change and American Meteorological Society Postdoctoral Fellow: Belfer Center for Science & International Affairs, JFK School of Government.

EDUCATION:

The Pennsylvania State University, University Park, PA.

- Ph.D., Geography, May 2002. Dissertation Title: “A Spatio-Temporal Analysis of Agricultural Vulnerability to Climate Change: The U.S. Great Plains, 1969-92.” Advisor: William E. Easterling, III.
- M.S., Geography, December 1998. Thesis Title: “A Hierarchical Conceptual Framework of Agricultural Land-Use Change.”

The University of Texas at Austin, Austin, TX.

- B.S., Mathematics, Honors, May 1994.
- B.A., Plan II (Humanities), Special Honors; French, Highest Honors; May 1994

ADVANCED CAPACITIES & EXPERIENCES:

- Leadership in innovative program-building within & across university departments
- Fund-raising from public & private foundations
- Staffing of diverse & multi-generational teams
- Communicating to varied audiences for both persuasive & reporting purposes

SCHOLARLY PUBLICATIONS:

Books

1. Co-Author/Committee Member: National Research Council, 2010. Strategic Directions for the Geographical Sciences in the Next Decade, National Academies Press: Washington, D.C.
2. Co-Editor: Yarnal, B., C. Polsky and J. O'Brien. (Editors), 2009. Sustainable Communities on a Sustainable Planet: The Human-Environment Regional Observatory Project, Cambridge University Press New York.

Peer-reviewed articles

1. Polsky, C., J. Morgan Grove, Chris Knudson, Peter M. Groffman, Neil Bettez, Jeanine Cavender-Bares, Sharon Hall, James Heffernan, Sarah Hobbie, Kelli Larson, Jen Morse, Christopher Neill, Kristin Nelson, Laura Ogden, Jarlath O'Neill-Dunne, Diane Pataki, Meredith Steele, and Rinku Roy Chowdhury, 2014. “Assessing the Homogenization of Urban Land Management with an Application to US Residential Lawn care.” *Proceedings, National Academy of Sciences* 111(12) 4432-4437. DOI:10.1073/pnas.1323995111.
2. Groffman, P.M., J. Cavender-Bares, N.D. Bettez, J.M. Grove, S.J. Hall, J.B. Heffernan, S.E. Hobbie, K.L. Larson, J.L. Morse, C. Neill, K. Nelson, J. O'Neil-Dunne, L. Ogden, D. Pataki, C. Polsky, R.R.

- Chowdhury and M.K. Steele, 2014. "Ecological homogenization of urban America." *Frontiers in Ecology and Environment* 12(1): 74–81. DOI:10.1890/120374.
3. Giner, N.M., C. Polsky, R.G. Pontius Jr., S. Ratick, and D.M. Runfola, accepted 3/2014. "Spatial prediction of lawns in suburban Boston, Massachusetts, USA." *Cities and the Environment*.
 4. Steele, M. K., J. B. Heffernan, N. Bettez, J. Cavender-Bares, P. M. Groffman, M. Grove, S. Hall, S. E. Hobbie, K. Larson, J. L. Morse, C. Neill, K. C. Nelson, J. O'Neil-Dunne, L. Ogden, D. E. Pataki, C. Polsky, and R. R. Chowdhury, 2014. "Convergent surface water distributions in U.S. cities." *Ecosystems*. DOI: 10.1007/s10021-014-9751-y.
 5. K. Foo, D. Martin, C. Wool, and C. Polsky, 2013. "The production of urban vacant land: relational placemaking in Boston, MA neighborhoods." *Cities* 35:156–163. DOI:10.1016/j.cities.2013.06.012.
 6. Larson, K.L, C. Polsky, P. Gober, H. Chang, and V. Shandas, 2013. "Vulnerability of water systems to climate change and urbanization: A comparison of Phoenix, Arizona and Portland, Oregon (USA)." *Environmental Management* 52(1): 179-195.
 7. Giner, N., C. Polsky, R.G. Pontius, and D. Runfola, 2013. "Understanding the social determinants of lawn landscapes: A fine-resolution spatial statistical analysis in suburban Boston, Massachusetts, USA." *Landscape and Urban Planning* 111:25-33. DOI:10.1016/j.landurbplan.2012.12.006.
 8. Runfola, D., C. Polsky, C. Nicolson, N. M. Giner, R. G. Pontius, and A. Decatur, 2013. "A growing concern? Examining the influence of lawn size on residential water use in suburban Boston, MA." *Landscape and Urban Planning* 119:113-123. DOI:10.1016/j.landurbplan.2013.07.006.
 9. Gober, P., K. L. Larson, R. Quay, C. Polsky, H. Chang, and V. Shandas, 2013. "Why Land Planners and Water Managers Don't Talk to One Another and Why They Should!" *Society and Natural Resources*. DOI:10.1080/08941920.2012.713448.
 10. Tuler, S., T. Webler, and C. Polsky, 2012. A rapid impact and vulnerability assessment approach for commercial fisheries management. 71:131–140. *Ocean & Coastal Management*. DOI:10.1016/j.ocecoaman.2012.09.013.
 11. Harris, E.M., C. Polsky, K. Larson, R. Garvoille, D.G. Martin, J. Brumand, and L. Ogden, 2012. "Heterogeneity in Residential Yard Care: Evidence from Boston, Miami, and Phoenix." *Human Ecology* 40(5):735-749. DOI: 10.1007/s10745-012-9514-3.
 12. Harris, E.M., D.G. Martin, C. Polsky, L. Denhardt, and A. Nehring, 2012. "Beyond 'Lawn People': The role of emotions in suburban yard management practices." *The Professional Geographer*. DOI:10.1080/00330124.2012.681586.
 13. Roy Chowdhury, R., K. Larson, J. M. Grove, C. Polsky, E. Cook, J. Onsted and L. Ogden, 2011. "A multi-scalar approach to theorizing socio-ecological dynamics of urban residential landscapes." *Cities and the Environment* 4(1):1-19.
 14. Hill, T. and C. Polsky, 2007. "Development and drought in suburbia: A mixed methods rapid assessment of vulnerability to drought in rainy Massachusetts." *Global Environmental Change Part B: Environmental Hazards* 7:291-301.
 15. Polsky, C., R. Neff, and B. Yarnal, 2007. "Building Comparable Global Change Vulnerability Assessments: The Vulnerability Scoping Diagram." *Global Environmental Change* (17):472-485.
 16. Young, O.R., E.F. Lambin, F. Alcock, H. Haberl, S.I. Karlsson, W.J. McConnell, T. Myint, C. Pahl-Wostl, C. Polsky, P. Ramakrishnan, H. Schroeder, M. Scouvar, and P.H. Verburg. 2006. A portfolio approach to analyzing complex human-environment interactions: institutions and land change. *Ecology and Society* 11(2):31. [online] URL: <http://www.ecologyandsociety.org/vol11/iss2/art31/>
 17. Sorrensen, C., C. Polsky, and R. Neff, 2006. "The Human-Environment Regional Observatory (HERO) Project: Undergraduate Research Findings from Four Study Sites." *Geographical Bulletin* 47(2): 65-72.
 18. Hill, T. and C. Polsky, 2005. "Adaptation to Drought in the Context of Suburban Sprawl and Abundant Rainfall." *Geographical Bulletin* 47(2): 85-100.
 19. Schröter, D., C. Polsky, and A. Patt, 2005. "Assessing Vulnerabilities to the Effects of Global Change: An Eight-Step Approach." *Mitigation and Adaptation Strategies for Global Change*, 10(4): 573-595.
 20. Polsky, C., 2004. "Putting Space & Time in Ricardian Climate Change Impact Studies: Agriculture in the US Great Plains." *Annals of the Association of American Geographers* 94(3):549-564.
 21. Turner, B.L., R.E. Kasperson, P. Matson, J.J. McCarthy, R.W. Corell, L. Christensen, N. Eckley, J.X. Kasperson, A. Luers, M.L. Martello, C. Polsky, A. Pulsipher and A. Schiller, 2003. A Framework For Vulnerability Analysis In Sustainability Science. *Proceedings, National Academy of Sciences* 100 (14): 8074-8079.

22. Turner, B.L., P. Matson, J.J. McCarthy, R.W. Corell, L. Christensen, N. Eckley, G. Hovelsrud-Broda, J.X. Kasperson, R.E. Kasperson, A. Luers, M.L. Martello, S. Mathiesen, C. Polsky, A. Pulsipher, A. Schiller and N. Tyler, 2003. Illustrating The Coupled Human-Environment System For Vulnerability Analysis: Three Case Studies. *Proceedings, National Academy of Sciences* 100 (14): 8080-8085.
23. Polsky, C. and W.E. Easterling III, 2001. "Adaptation to Climate Variability and Change in the US Great Plains: A Multi-Scale Analysis of Ricardian Climate Sensitivities." *Agriculture, Ecosystems & Environment* 85(1-3):133-144.
24. Polsky, C., J. Allard, N. Currit, R. Crane and B. Yarnal, 2000. "The Mid-Atlantic Region and its Climate: Past, Present and Future." *Climate Research* 14(3):161-173.
25. Najjar, R.G., H.A. Walker, P.J. Anderson, E.J. Barron, R. Bord, J. Gibson, V.S. Kennedy, C.G. Knight, P. Megonigal, R. O'Connor, C. Polsky, N.P. Psuty, B. Richards, L.G. Sorenson, E. Steele and R.S. Swanson, 2000. "The Potential Impacts of Climate Change on the Mid-Atlantic Coastal Region." *Climate Research* 14(3):219-233.
26. Easterling, W.E., C. Polsky, D. Goodin, M.W. Mayfield, W.A. Muraco and B. Yarnal, 1998. "Changing Places, Changing Emissions: the cross-scale reliability of greenhouse gas emission inventories in the US." *Local Environment* 3(3):247-262.

Book chapters and non-peer-reviewed articles

1. Brown, D. G., C. Polsky, P. Bolstad, S. D. Brody, D. Hulse, R. Kroh, T. R. Loveland, and A. Thomson, 2014. "Ch. 13: Land Use and Land Cover Change." In: Climate Change Impacts in the United States: The Third National Climate Assessment, J. M. Melillo, Terese (T.C.) Richmond, and G. W. Yohe, Eds., U.S. Global Change Research Program. URL: <http://nca2014.globalchange.gov/report/sectors/land-use-and-land-cover-change> .
2. Runfola, D. and C. Polsky, accepted March 2013. "A Growing Concern?: Lawns and Suburban Growth in New England." In: Cities and Nature, D. Czamanski, I. Benenson and D. Malkinson, eds. Springer: New York.
3. Polsky, C. and H. Eakin, 2011. "Global Change Vulnerability." In: Oxford Encyclopedia of Climate and Society. Oxford: Oxford University Press, pp.205-216.
4. Hollander, Justin B., Colin Polsky, Dan Zinder, and Dan Runfola, 2011. "The New American Ghost Towns." *Lincoln Institute of Land Policy Land Lines*, April:2-7. URL: http://www.lincolninst.edu/pubs/1981_A-Spatial-Analysis-of-Housing-Vacancy-in-the-United-States-2000-2011 .
5. Polsky, C., Assefa, S., Del Vecchio, K., Hill, T., Merner, L., Tercero, I. and Pontius, G., 2009. The Mounting Risk of Drought in a Humid Landscape: Structure and Agency in Suburbanizing Massachusetts. In: B. Yarnal, C. Polsky and J. O'Brien (Editors), Sustainable Communities on a Sustainable Planet: The Human-Environment Regional Observatory Project. Cambridge University Press, New York.
6. Polsky, C., Comrie, A., Whitehead, J., Sorrensen, C., Butler Harrington, L.M., Lu, M., Neff, R. and Yarnal, B., 2009. Rapid Vulnerability Assessments of Exposures, Sensitivities, and Adaptive Capacities of the HERO Study Sites. In: B. Yarnal, C. Polsky and J. O'Brien (Editors), Sustainable Communities on a Sustainable Planet: The Human-Environment Regional Observatory Project. Cambridge University Press, New York.
7. Polsky, C., Neff, R. and Yarnal, B., 2009. Establishing Vulnerability Observatory Networks to Coordinate the Collection and Analysis of Comparable Data In: B. Yarnal, C. Polsky and J. O'Brien (Editors), Sustainable Communities on a Sustainable Planet: The Human-Environment Regional Observatory Project. Cambridge University Press, New York.
8. Polsky, C., Sorrensen, C., Whitehead, J., Butler Harrington, L.M., Lu, M., Neff, R. and Yarnal, B., 2009. Evaluating Vulnerability Assessments of the HERO Study Sites. In: B. Yarnal, C. Polsky and J. O'Brien (Editors), Sustainable Communities on a Sustainable Planet: The Human-Environment Regional Observatory Project. Cambridge University Press, New York.
9. Polsky, C., Sorrensen, C., Whitehead, J. and Neff, R., 2009. Assessing Local Vulnerabilities: Methodological Approaches and Regional Contexts. In: B. Yarnal, C. Polsky and J. O'Brien (Editors), Sustainable Communities on a Sustainable Planet: The Human-Environment Regional Observatory Project. Cambridge University Press, New York.

10. Yarnal, B., Harrington, J.J., Comrie, A.C., Polsky, C. and Ahlqvist, O., 2009. Infrastructure for Observing Local Human-Environment Interactions In: B. Yarnal, C. Polsky and J. O'Brien (Editors), Sustainable Communities on a Sustainable Planet: The Human-Environment Regional Observatory Project. Cambridge University Press New York.
11. Polsky, C. and D. Munroe, 2009. "Scale and Scalar Dynamics in Integrated Regional Assessments." In: Integrated Regional Assessment of Global Climate Change, C.G. Knight and J. Jager, eds. Cambridge, UK: Cambridge University Press, pp.68-89.
12. Polsky, C., J. Rogan, R.G. Pontius Jr, and B.L. Turner II, 2007. "Undergraduate GIScience Research at Clark University: The HERO Program." *Council on Undergraduate Research* 27(3):124-130.
13. Polsky, C. and D. Cash, 2005. "Reducing Vulnerability to the Effects of Global Change: Drought Management in a Multi-Scale, Multi-Stressor World." In: D. Wilhite (Editor), Drought and Water Crises: Science, Technology, and Management Issues. Marcel Drekker, Amsterdam, pp.215-245.
14. McCarthy, J.J., Martello, M.L., Corell, R., Eckley, N., Fox, S., Hovelsrud-Broda, G., Mathiesen, S., Polsky, C., Selin, H., Tyler, N., Bull, K.S., Eira, I.M.G., Eira, N.I., Eriksen, S., Hanssen-Bauer, I., Kalstad, J.K., Nellesmann, C., Oskal, N., Reinert, E.S., Siegel-Causey, D., Storeheier, P.V. and Turi, J.M., 2005. "Climate Change in the Context of Multiple Stressors and Resilience." In: Impacts of a Warming Climate - Arctic Climate Impact Assessment. Arctic Monitoring and Assessment Program. Cambridge University Press, Cambridge, pp. 945-988.
15. Easterling, W.E. and Polsky, C., 2004. "Crossing the Complex Divide: Linking Scales for Understanding Coupled Human-Environment Systems." In: R. McMaster and E. Sheppard (Editors), Scale and Geographic Inquiry. Blackwell, Oxford, pp. 55-64.
16. Easterling, W.E., C. Polsky, D. Goodin, M.W. Mayfield, W.A. Muraco and B. Yarnal, 2003. "Analyzing greenhouse gas emission inventories at multiple spatial scales in the US." In: Global Change in Local Places, R. Kates and T. Wilbanks, eds. Cambridge University Press: Cambridge & New York, pp.143-157.
17. Denny, A., B. Yarnal, and C. Polsky, 2003. "The Central Pennsylvania study area: How coal dominates the greenhouse gas problem." In: Global Change in Local Places, R. Kates and T. Wilbanks, eds. Cambridge University Press: Cambridge & New York, pp.122-142.

Book reviews, technical reports, popular publications, and working papers

1. Polsky, C., Pontius, R.G., Decatur, A., Giner, N. and Runfola, D., 2012. "HERO Object-based Lawn Mapping Exploration of Suburbia: Rationale, Methods and Results for the NSF Plum Island Ecosystems Long-Term Ecological Research Site." Clark University George Perkins Marsh Institute Working Paper 2012-24. URL: <http://www.clarku.edu/departments/marsh/news/workingpapers.cfm> .
2. Polsky, C. and P. Panday, 2009. "Book Review: Climate change and globalization in the Arctic: an integrated approach to vulnerability assessment." *Polar Research* (28):473-4.
3. Tuler, S., Webler, T., Polsky, C. 2009. A risk-based approach to rapid vulnerability assessment in New England fishery communities. Case study of the groundfishing sector Chatham, Massachusetts. SERI Report 09-002. Greenfield, MA: Social and Environmental Research Institute, Inc. PDF available from <http://www.seri-us.org/content/rapid-vulnerability-assessment-of-fishery-communities> .
4. Tuler, S., Webler, T., Polsky, C. 2009. A risk-based approach to rapid vulnerability assessment in New England fishery communities. Case study of the groundfishing sector in coastal New Hampshire. SERI Report 09-003. Greenfield, MA: Social and Environmental Research Institute, Inc. PDF available from <http://www.seri-us.org/content/rapid-vulnerability-assessment-of-fishery-communities> .
5. Tuler, S., Webler, T., Polsky, C. 2009. A risk-based approach to rapid vulnerability assessment in New England fishery communities. Case study of the groundfishing sector in New Bedford, Massachusetts. SERI Report 09-004. Greenfield, MA: Social and Environmental Research Institute, Inc. PDF available from <http://www.seri-us.org/content/rapid-vulnerability-assessment-of-fisherycommunities> .
6. Assefa, Sarah, Kate Del Vecchio, Laura Merner, Isaac Payano, and Colin Polsky, 2006. "Damp Northeast Still Not Immune to Drought" The Salem News (May 19, p.B7).
7. Polsky, C., 2004. "Book review: *Climate Change and Sustainable Development: Prospects for Developing Countries*, Anil Markandya and Kirsten Halsnaes, eds. *The Geographical Review* 93(4):538-540.
8. Polsky, C., D. Schröter, A. Patt, R.W. Corell, S. Gaffin, M.L. Martello, R. Neff, A. Pulsipher, H. Selin, J. Borck, S. Fox, P. Raskin and J. Ribot, 2003. Assessing Vulnerabilities to the Effects of Global

- Change: An Eight-Step Approach. Research and Assessment Systems for Sustainability Program Discussion Paper 2003-05. Cambridge, Massachusetts: Environment and Natural Resources Program, Belfer Center for Science and International Affairs, Kennedy School of Government, Harvard University. Internet: <http://ksgnotes1.harvard.edu/bcsia/sust.nsf/publications>
9. Polsky, C., 1999. "Book Review: Technology and Global Change, by Arnulf Grubler." *Annals of the Association of American Geographers* 89(4):792-794.
 10. MacEachren, A.M., C. Polsky, D. Haug, D. Brown, F. Boscoe, J. Beedasy, L. Pickle, and M. Marrara, 1997. "Visualizing Spatial Relationships Among Health, Environmental, and Demographic Statistics: Interface Design Issues." *Proceedings of the 18th International Cartographic Conference*. June 23-27, 1997:880-887. Stockholm, Sweden.
 11. U.S. EPA, 1995. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-1994, Washington, D.C. Overall production manager and lead author for Chapter Two, "Industrial Processes."

Publications, in review

1. K. Foo, D. Martin, C. Polsky, C. Wool, and M. Ziemer, in revision. "A well-being framework for urban neighborhood socio-environmental resilience." Submitted to *Geographical Journal*, 4/2013.
2. Lin, Elaine and C. Polsky, in review. "A Livelihoods Vulnerability Index: The Case of Indigenous Communities and Typhoons in Mountainous Taiwan." Submitted to *Mitigation & Adaptation Strategies for Global Change*, 11/2013.

Publications, in preparation

1. Polsky, C., in preparation. "Climate Impacts." In: *The International Encyclopedia of Geography*, D. Richardson, ed. New York: Wiley. To be submitted for review 6/2014.
2. Milman, A., and C. Polsky, in preparation. "Water-Use Restrictions in Suburbia: A Growing Concern?" To be submitted to *Weather, Climate, and Society* 6/2014.
3. Polsky, C. and A. Kaminski, in preparation. "Bradley and Emma and the Lawn Mystery." To be submitted to *NSF LTER Science Children's Book Series* 12/2013.
4. Locke, D., C. Polsky, et al., in preparation. "Lawncare: A Multi-Level Analysis in Six US Cities." To be submitted to *Environmental Management*, 8/2014.
5. Polsky, C., P. Nguon, et al. "How Land-Use Legacies Influence Residential Lawncare: Evidence from Suburban Boston." To be submitted to *Human Ecology*, 6/2014.
6. Polsky, C., J. Krahe, R. Quay, and R. Johnston, in preparation. "Residential Water-Use Elasticities: Exploring the Influence of Lawn Size." To be submitted to *Journal of American Water Resources Association*, 4/2014.
7. Stoddard, Elisabeth and Colin Polsky, in preparation. "Where are the Animals? Filling a Gap in the Global Change Vulnerability Literature." To be submitted to *Global Environmental Change*, 5/2014.
8. Polsky, Colin, in preparation. "Understanding Household-Level Determinants of Suburban Lawncare: The Case of Four Suburban Boston Towns." To be submitted to *Local Environment* 6/2014.
9. Polsky, Colin and Arijit Guha, in preparation. "Reducing Suburban Drought Vulnerabilities in Eastern Massachusetts: Identifying Opportunities and Constraints for Integrated Land-Use and Water Resource Management." To be submitted to Clark U. George Perkins Marsh Working Paper Series, 6/2014.
10. Polsky, Colin, N. Giner, R.G. Pontius, and D. Runfola, in preparation. "Bringing Land Cover into the Sprawl Literature: A Multi-Scale Lawn Mapping and Analysis in Suburban Boston, Massachusetts." To be submitted to *Professional Geographer*, 7/2014.

GRANTS:

1. April 2014: co-Principal Investigator, US Forest Service. "Home Turfs And Urban Sustainability: The Social Ecology Of Markets, Messages, And Messengers." PI: Morgan Grove, USFS. Amount: \$45,000 (\$2,500 to Clark).
2. September 2013: co-Principal Investigator, US National Science Foundation. "Pathways: From the Lab to the Neighborhood: An Interactive Living Exhibit for Advancing STEM Engagement with Urban Systems in Science Museums." PI: Robert Ryan, UMASS. Amount: \$250,000 (\$20,000 to Clark).

3. October 2012: co-Principal Investigator, US National Science Foundation/US EPA. "Supplement to BMA & Boston ULTRA-ex Projects." PI: Paige Warren, UMASS. Amount: \$85,000 (\$9,000 to Clark).
4. October 2012: co-Principal Investigator, SESYNC, University of Maryland. "Pursuit: Urban Ecological Sustainability—Multi-level governance of water, energy, and carbon in the Northeast Megaregion of the United States." PIs: Steward Pickett & James Connolly. Amount: \$50,000 (\$4,000 to Clark).
5. July 2012: co-Principal Investigator, UMASS Center for Agriculture, Integrated Research and Extension Projects. "Understanding the Factors that Influence Outdoor Residential Water Conservation: A Case Study in suburban Boston." PI: Robert L. Ryan. Amount: \$110,000 (\$20,000 to Clark).
6. June 2012: co-Principal Investigator, US National Science Foundation. "Plum Island Ecosystem (PIE) LTER Site Renewal." PI: Anne Giblin, Marine Biological Laboratory. Amount: \$4,000,000 (\$143,000 to Clark).
7. January 2012: Principal Investigator, US National Science Foundation Long-Term Ecological Research Social Science Supplement: "Infrastructure." In collaboration with A. Giblin at the Marine Biological Laboratory. Amount: \$10,000.
8. July 2011: Senior Personnel, US National Science Foundation. "NSF Collaborative Research – RCN-SEES for Urban Sustainability: Research Coordination & Synthesis for a Transformative Future." PIs: Dan Childers, Ariz. State Univ.; Steward Pickett, Cary Institute. Amount: \$750,000 (\$5,000 to Clark).
9. April 2011: co-Principal Investigator, US National Science Foundation. "NSF MACRO-BIO Collaborative research: Ecological homogenization of Urban America." PI: Peter Groffman, Cary Institute for Ecosystem Studies. Amount: \$2,700,000 (\$195,000 to Clark).
10. April 2011: Principal Investigator, Clark University Mosakowski Institute for Public Policy: "Mosakowski HERO Fellowships." Amount: \$8,000.
11. March 2011: co-Principal Investigator, Lincoln Land Institute. "Part II: The New American Ghost Town: Foreclosure, Abandonment and the Prospects for City Planning." PI: Justin Hollander, Tufts University. Amount: \$5,000.
12. March 2011: co-Principal Investigator, Tel Aviv University. "Catalyzing Research on Modeling Urban Growth." PI: Itzhak Benenson, Tel Aviv University. Amount: \$13,000.
13. July 2010: co-Principal Investigator, US National Science Foundation. "Plum Island Ecosystem (PIE) LTER Site Renewal." PI: Anne Giblin, Marine Biological Laboratory. Amount: \$2,000,000 (\$62,000 to Clark).
14. March 2010: Principal Investigator, Clark University Mosakowski Institute for Public Policy: "Mosakowski HERO Fellowships." Amount: \$4,000.
15. February 2010: co-Principal Investigator, US National Science Foundation. "DMUU: DCDC II." PI: Pat Gober, Arizona State U. Amount: \$5,000,000 (\$131,000 to Clark).
16. November 2009: co-Principal Investigator, US National Science Foundation. "Cross-Site NSF LTER Vulnerability Research Grant Planning." PI: Merryl Alber, University of Georgia. Amount: \$30,000.
17. November 2009: co-Principal Investigator, Lincoln Land Institute. "The New American Ghost Town: Foreclosure, Abandonment and the Prospects for City Planning." PI: Justin Hollander, Tufts University. Amount: \$7,000.
18. August 2009: Principal Investigator, US National Science Foundation. "CNH REU Supplement: Suburbanization, Water-Use, Nitrogen Cycling & Eutrophication in the 21st Century: Interactions, Feedbacks & Uncertainties in a Massachusetts Coastal Zone." Amount: \$11,991.
19. July 2009: co-Principal Investigator, US National Science Foundation. "Boston Metropolitan Area ULTRA-ex: Exploring past, current and future socio-ecological dynamics in a founding city." PI: Paige Warren, U. Mass.-Amherst. Amount: \$298,742 (\$13,256 to Clark).
20. July 2009: Principal Investigator, US Forest Service Cooperative Agreement. "Lawn Mapping and Analysis." Amount: \$3,925.
21. July 2009: Principal Investigator, US National Science Foundation. "Cross-site lawn research at the PIE, CAP, BES, & FCE LTER Sites." Amount: \$80,000.
22. March 2009: Principal Investigator, Clark University Mosakowski Institute for Public Policy: "Mosakowski HERO Fellowships." Amount: \$4,000.
23. April 2009: co-Principal Investigator, National Oceanic and Atmospheric Administration, Sector Applications Research Program. "Integrated Water and Land Planning as a Climate Adaptation Strategy: Comparisons of Portland, Oregon and Phoenix, Arizona." PI: Heejun Chang, Portland State U. (Oregon). Amount: \$299,996 (\$20,032 to Clark).

24. January 2009: Principal Investigator, US National Science Foundation. “REU Site: Land Change and Vulnerability Studies in New England: The Human-Environment Regional Observatory (HERO). Amount: \$354,146.”
25. July 2008: Principal Investigator, US National Science Foundation Long-Term Ecological Research Social Science Supplement: “Studying the Ecological Effects of Suburbanization in a Massachusetts Coastal Zone.” In collaboration with A. Giblin at the Marine Biological Laboratory. Amount: \$19,600.
26. July 2008: Principal Investigator, US National Science Foundation: “Suburbanization, Water-Use, Nitrogen Cycling & Eutrophication in the 21st Century: Interactions, Feedbacks & Uncertainties in a Massachusetts Coastal Zone.” REU Supplement. Amount: \$11,991.
27. July 2008: co-Principal Investigator, US National Science Foundation Long-Term Ecological Research Social Science Supplement: “Socioecological Dynamics of Residential Landscapes: A Multi-Site Collaboration.” Amount: \$17,805.
28. July 2008: co-Principal Investigator, Florida International University Long-Term Ecological Research Social Science Collaboration: “Socioecological Dynamics of Residential Landscapes: A Multi-Site Collaboration.” Amount: \$6,500.
29. April 2008: Principal Investigator, Clark University Mosakowski Institute for Public Policy: “Mosakowski HERO Fellowships.” Amount: \$47,142.
30. April 2008: Principal Investigator, US National Science Foundation Long-Term Ecological Research Social Science REU Supplement: “Studying the Ecological Effects of Suburbanization in a Massachusetts Coastal Zone.” In collaboration with A. Giblin at the Marine Biological Laboratory. Amount: \$5,000.
31. May 2007: Principal Investigator, US National Science Foundation: “Suburbanization, Water-Use, Nitrogen Cycling & Eutrophication in the 21st Century: Interactions, Feedbacks & Uncertainties in a Massachusetts Coastal Zone.” Amount: \$1,442,930.
32. May 2007: Principal Investigator, US National Science Foundation Long-Term Ecological Research Social Science Supplement: “Studying the Ecological Effects of Suburbanization in a Massachusetts Coastal Zone.” In collaboration with C. Hopkinson at the Marine Biological Laboratory. Amount: \$20,000.
33. May 2007: Principal Investigator, US National Science Foundation Long-Term Ecological Research Social Science REU Supplement: “Studying the Ecological Effects of Suburbanization in a Massachusetts Coastal Zone.” In collaboration with C. Hopkinson at the Marine Biological Laboratory. Amount: \$5,000.
34. January 2007: “Doctoral Dissertation Research: Discourses about wildfire in New Jersey and New South Wales” Principal Investigators: Colin Polsky and Billie Turner, for PhD student Stentor Danielson. Amount: \$11,237.
35. January 2007: Principal Investigator, Henry David Thoreau Foundation: “Catalyzing new research-education directions for undergraduates in the Clark University Human-Environment Regional Observatory (HERO) Program.” Amount: \$24,762.
36. September 2006: co-Principal Investigator, National Marine Fisheries Service (NMFS) of the National Oceanic and Atmospheric Administration (NOAA). “Demonstrating a risk-based approach to rapid vulnerability assessment in New England fishery communities.” Principal Investigator: Seth Tuler (Social and Environmental Research Institute). Amount: \$131,902 (\$53,455 to Clark).
37. December 2003: Principal Investigator, Clark University Faculty Development Grant, to improve the spatial statistical analytical capability of the Graduate School of Geography. Amount: \$800
38. May 1999: Travel grant to attend two one-week workshops at the 1999 Summer Program for Quantitative Methods in the Social Sciences, Ann Arbor, Michigan. Source: Inter-University Consortium for Political and Social Research. Amount: \$240.
39. August 1998: AAG Competitive Travel Grant for 95th Annual Meeting of the Association of American Geographers, Honolulu, Hawaii. Source: Association of American Geographers. Amount: \$200.
40. April 1997: National Science Foundation Graduate Research Fellowship. Source: US National Science Foundation. Amount: ~ \$75,000.
41. March 1996: Anne C. Wilson Graduate Fellowship. One of three awardees, the Penn State College of Earth and Mineral Sciences. Amount: \$9,000.

AWARDS, HONORS AND MEDIA APPEARANCES:

1. August 4, 2014: "Suburban Lawns in America." Thirty-minute radio interview, *RBB Kulturradio* (in German).
2. June 5, 2014: "Drought vs. legislatures: Drought is winning." CNBC.com, URL: <http://www.cnbc.com/id/101730730>
3. March 12, 2014: "Is There a Solution to America's Obsession With Lawn Care?" Interview with *Pacific Standard: The Science of Society*, URL: <http://www.psmag.com/navigation/nature-and-technology/solution-america-obsession-lawn-care-76313/>
4. April 10, 2014: Commentary, "Professor Perspectives: How to Best Ask for a Recommendation Letter." *NerdScholar*, URL: <http://www.nerdwallet.com/blog/nerdscholar/2014/professor-perspectives-recommendation-letter/>
5. December 20, 2012: Charter Fellow, Colleges of Worcester Consortium Fellows in Academic Leadership Program.
6. May 31, 2011: Television interview, *FoxNews Live*. "Letters of Recommendation."
7. August 15, 2011: Feature article, The Chronicle of Higher Education: "Doing Research With Undergraduates."
8. August 23, 2011: Invited column (co-authored with A. Whitney), College Examiner: "Life After College: The Importance of Letters of Recommendation."
9. September 2008: Radio interview, Inquiry: "Mapping Suburbs and Studying Lawns." WICN 90.5FM, Worcester, Massachusetts.
10. June 2008: Clark U. Hodgkins Award for Research Excellence. One of two junior faculty recipients.
11. March 2003: Fellowship, Young Faculty Development Seminar, "Enabling the Next Generation of Hazard Researchers," sponsored by the US National Science Foundation, July 25-28, 2003, Woods Hole, Massachusetts, and July 16-20, 2004, Estes Park, Colorado.
12. March 2003: Fellowship, Young Faculty Development Workshop, "Ethics, Science, and Policy: Environmental Education for a Transnational World," sponsored by the Carnegie Council on Ethics and International Affairs, May 18-21, 2003, College of the Holy Cross, Worcester, Massachusetts.
13. March 2001: Two-year Postdoctoral Fellowship to the John F. Kennedy School of Government, Harvard University, from NOAA/UCAR Climate & Global Change Research Program, supplemented by the American Meteorological Society. Amount: ~\$100,000.
14. March 2001: E. Willard Miller PhD Writing Award, PSU Department of Geography. Amount: \$750.

PROFESSIONAL SERVICE:

- Member, Adaptation and Hazards Indicators Technical Team, U.S. Global Change Research Program, U.S. National Climate Assessment.
- Member, NEON Urban Ecology Working Group, NSF LTER Program.
- Co-Convening Lead Author, "Land-Use & Land-Cover Change" Chapter, U.S. Global Change Research Program, U.S. National Climate Assessment, 2012-2014.
- NIH Panel Reviewer, Climate and Human Health program.
- Participant, NSF "Workshop on Frontiers in Ecosystem Science: Energizing the Research Agenda."
- NSF Panel Reviewer, Long-Term Ecological Research, and Water, Sustainability & Climate programs.
- Committee Member, National Academies of Science/National Research Council (NAS/NRC) Committee on Strategic Directions for the Geographical Sciences in the Next Decade.
- Member, Faculty Advisory Board, GLP Advanced Institute on Modeling Land-Use Change, summer 2007. GLP Focus Group One Office, Sapporo, Japan.
- Chair, Task Force on Vulnerability, International Geographical Union, 2003-2007.
- Member, Faculty Board, Human Dimensions of Global Change Specialty Group, Association of American Geographers, 2005-2007.
- Member, Faculty Advisory Board, START Advanced Institute on Studying Vulnerability to the Effects of Global Change, summer 2004. IIASA, Laxenburg, Austria.

UNIVERSITY & DEPARTMENTAL SERVICE:

- Elected member, Research Board (Clark University faculty governance), 2013 - 2016
- Associate Dean for Undergraduate Research, January 2011 – August 2012.

- Director, and Research Faculty, Clark University Human-Environment Regional Observatory (HERO), Spring 2004-2012.
- Member, George Perkins Marsh Institute Management Committee, Fall 2008-present.
- Director, Global Environmental Studies Major, Fall 2007-Spring 2009.
- Member, Geography Department Promotion Committee, Fall 2009.
- Co-Chair, Human-Environment Faculty Search Committee, Fall 2008; Fall 2010.
- Geography Department PhD Admissions Committee, 2005 (Chair), 2006 (Chair) & 2010.
- Chair, Clark University Athletic Board, Spring 2005-Spring 2007.
- Member, Marsh Institute Student Scholarship Review Committee, Spring 2005-present.
- Member, Geography Department Undergraduate Studies Committee, Fall 2007-present.
- Member, Geography Department Atwood Committee, Fall 2005.
- Member, Geography Department Web Committee, Fall 2003-Spring 2004.

EDITORIAL SERVICE:

Grant/article/book reviewer (multiple reviews in each case):

National Science Foundation; Intergovernmental Panel on Climate Change; National Oceanic and Atmospheric Administration, Geographical Analysis; Great Plains Research; Land Use Policy; Agriculture, Ecosystems and Environment; Agricultural Systems; Climatic Change; Annals of the Association of American Geographers; International Journal of Geographic Information Science; Journal of the American Water Resources Association; Geographical Bulletin; Geoforum; PERISHIP; GeoJournal; Journal of Environmental Management; Regional Environmental Change; Global Environmental Change; Journal of Applied Geography; Journal of Hydrologic Engineering; Natural Hazards Center; Landscape and Urban Planning; Mitigation and Adaptation Strategies for Global Change; Ecology & Society; Economic Geography; Introduction to Environmental Science Textbook; Union of Concerned Scientists; Proceedings, National Academy of Sciences; Frontiers in Ecology & Environment; Urban Change; Growth and Change; Environment & Planning A; Israel Science Foundation; others.

STUDENT THESES ADVISED:

- Shari Fox Gearhard, NOAA/UCAR Postdoctoral Fellow in Climate & Global Change (co-advised with Jim McCarthy, Harvard U.), 2004-2005
- Catherine Cox Guido, MA in Environmental Science & Policy, Clark U. (graduated 9/2005)
- David Greene, MA in Environmental Science & Policy, Clark U. (graduated 5/2005)
- Troy Hill, Honors BA Thesis, Environmental Science & Policy, Clark U. (graduated 5/2006)
- Stentor Danielson, PhD in Geography, Clark U. (graduated 12/2007)
- Hamil Pearsall, PhD in Geography, Clark U. (graduated 9/2009)
- Jennifer Bowen, MA in Environmental Science & Policy, Clark U. (graduated 5/2006)
- Kate Del Vecchio, Honors BA Thesis, Environmental Science & Policy, Clark U. (graduated 5/2007)
- Mikhaila Gonzalez, MA in Environmental Science & Policy, Clark U. (graduated 12/2007)
- Dawn Gedenberg, MA in Environmental Science & Policy, Clark U. (graduated 8/2008)
- Nagraj Rao, Honors BA Thesis, Economics, Clark U. (graduated 5/2008)
- Laura DeVeber, Honors BA Thesis, Geography, Clark U. (graduated 5/2008)
- Sara Nelson, Honors BA Thesis, Geography, Clark U. (graduated 5/2008)
- Arijit Guha, MA in Geography, Clark U. (graduated 5/2009)
- Kiersten von Trapp, MA in Environmental Planning, Tufts U. (graduated 5/2010)
- Alex Pulsipher, MA in Geography, Clark U. (graduated 12/2010)
- Dan Runfola, PhD in Geography, Clark U. (graduated 5/2012; co-advisor w/Gil Pontius)
- Nick Giner, PhD in Geography, Clark U. (graduated 5/2013; co-advisor w/Gil Pontius)
- Dexter Locke, PhD in Geography, Clark U. (expected graduation 5/2016)

TEACHING EXPERIENCE:

Assistant & Associate Professor, Clark University

- The World According to Geography (GEOG 011; 3 times)
- Undergraduate Seminar: Why Global Warming Matters I & II (GEOG 022/222; 4 times)
- Undergraduate Seminar: Suburban Sprawl Under the Microscope (GEOG 025; 1 time)
- Who Fears What and Why: Social Theories of Environmental Risks & Hazards (GEOG 226; 4 times)
- Graduate Seminar: Vulnerability to Global Environmental Change (GEOG 343; 4 times)
- Graduate Seminar: Research Design and Methods (GEOG 314; 8 times)
- Undergraduate Seminar: Research Design and Methods (GEOG 141; 3 times)
- Research Applications in Human-Environment Interactions (IDND 299; 14 times)
- Graduate Seminar: PhD Professional Training (GEOG 315; 1 time)
- Professional Training: Mentoring Undergraduate Research (3 times)
- Professional Training: How Undergraduate Research Can Help Your Professional Development (1 time)

Teaching Assistant, Penn State University

- Introduction to Physical Geography (GEOG 10, TA & webmaster)
- Agroecosystem Science, Technology and Policy (AGESS 134)
- Spatial Analysis (Statistics) II (GEOG 455, TA & webmaster)

Guest Lecturer, Clark & Penn State Universities, varied courses

“Exploratory Spatial Data Analysis”; “Environment and Economics”; “Causes of the Greenhouse Effect”; “Climate Change and Energy Consumption”; “Climate Change and Agriculture”; “Doing Research on the HDGEC”; “Spatial Statistics and Vulnerability Research,” others

SOFTWARE PROFICIENCY:

- GeoDa, SpaceStat, R, ArcView GIS, HLM, SAS, Access, Excel, Word, PowerPoint, Atlas.ti

PROFESSIONAL PRESENTATIONS, CONFERENCES & WORKSHOPS:

- “Climate-Society Research: Two Analytical Approaches, Illustrated across Multiple Scales & Sectors.” Invited presentation, Florida Atlantic University, Center for Environmental Studies, May 27, 2014.
- “Human Dimensions of PIE Research.” Invited presentation at NSF LTER-PIE Site Review, Ipswich, MA, May 7, 2014.
- “At What Scales Should Sustainability Be Examined, Acted Upon, or Evaluated?” Invited Panel Presentation, Annual Meeting, Association of American Geographers, Tampa, April 11, 2014.
- “The Future of Human Dimensions of Global Change Research.” Organized Panel Session, Annual Meeting, Association of American Geographers, Tampa, April 10, 2014.
- “Is Urbanization Homogenizing Lawncare?: Comparing U.S. Fertilizing & Irrigation Practices across Social and Biophysical Gradients.” Presentation, Annual Meeting, Association of American Geographers, Tampa, April 10, 2014.
- “PIE Research at Clark University.” Invited presentation at NSF LTER-PIE All-Scientists’ Meeting, Woods Hole, MA, March 20, 2014.
- “Global Change & the ‘Human Dimensions’: Multi-Scale Homogenization & Lawncare in 6 Cities.” Presentation, Annual Meeting of NESTVAL-AAG, Worcester, MA, October 18, 2013.
- “Implications of Urban Homogenization for U.S. Climate Vulnerabilities.” Invited presentation, University of Connecticut, Department of Geography, June 3, 2013.
- “Lawn Care Practices & Motivations: A Social & Biogeochemical Study of Six US Metro Areas.” Presentation, Annual Meeting, Association of American Geographers, Los Angeles, April 12, 2013.
- “Earth Transformed, 25 Years On: Climate-Society Studies.” Invited presentation, Clark University *ET+25 Commemorative Celebration*, April 2, 2013.

- “Environmental Spatial Social Science and Urban Planning: Towards a *U.S. Inventory of Climate Vulnerabilities*.” Invited presentation, University of Illinois Urbana-Champaign, Department of Urban & Regional Planning, March 5, 2013.
- “Vulnerability in Coastal LTER Research.” Invited presentation, Tri-Annual All-Scientists Meetings, Long-Term Ecological Research Network, Estes Park, Colorado, September 2012.
- “Urban Ecology in Greater Boston: Integrating Observations, Perceptions and Needs in an ULTRA-ex Project.” Presentation, Annual Meeting of the Association of American Geographers, New York, February, 2012.
- “Lawns as a Focus of Sustainability Science.” Invited presentation, Dartmouth College, May 16, 2011.
- “Undergraduate Research at Liberal Arts Colleges: Clark’s LEEP Approach.” Invited keynote presentation, Assumption College, April 18, 2011.
- “Landscape and social ecologies of suburbanization: Why our landscapes are the way they are.” Paper presentation, Annual Meeting of the Association of American Geographers, Seattle, April, 2011.
- “Landscape and Social Ecologies of Suburbanization: What is on our Residential Landscapes?” With Rinku Roy Chowdhury, Albert Decatur, Morgan Grove, Edmund Harris, Kelli Larson, Deborah Martin, Jarlath O’Neil-Dunne, Laura Ogden, and Nicholas Vaughn. Annual Meeting of the Association of American Geographers, Seattle, April, 2011.
- “Climate, Land Use, and Water Sustainability in Urban Environments.” Discussant, Annual Meeting of the Association of American Geographers, Seattle, April, 2011.
- “Where Are the Animals? Filling a Gap in Vulnerability Literature.” Paper 2nd author (with Lisa Stoddard), Annual Meeting of the Association of American Geographers, Seattle, April, 2011.
- “NSF Grantsmanship.” Invited presentation, College of the Holy Cross, February 18, 2011.
- “Finding a Place for Lawns in Research on Global Environmental Change.” Invited presentation, University of Maryland-Baltimore County, February 10, 2011.
- “Lawn Landscapes in Suburban Boston: Human Drivers, Ecological Implications, and Ecosystem Services.” Invited presentation, Tel Aviv University Department of Geography & the Human Environment, November 23, 2010.
- “I’m searching for a word ... Is Vulnerability the Answer?” Invited presentation, Tel Aviv University Department of Geography & the Human Environment, November 16, 2010.
- “Vegetation as a Component of Suburban Sprawl?” Invited presentation, Technion University, Haifa, Israel, October 27, 2010.
- “Lawns as Dynamic Human-Environment Landscapes.” Invited presentation, Tel Aviv University Porter School for Environmental Studies, October 20, 2010.
- “Opportunities for Economic Geography in Climate Change Research.” Invited discussant, Annual Meeting of the Association of American Geographers, Washington, D.C., April 16, 2010.
- “Vulnerability Indices.” Paper presentation, Annual Meeting of the Association of American Geographers, Washington, D.C., April 15, 2010.
- “HERO Today.” Paper presentation, Annual Meeting of the Association of American Geographers, Washington, D.C., April 15, 2010.
- “CHANS Research Using High-Resolution Maps.” Paper presentation, Annual Meeting of the Association of American Geographers, Washington, D.C., April 13, 2010.
- “CNH Research in Suburban Boston.” Paper presentation, National Science Foundation, Washington, D.C., April 14, 2010.
- “NRC Report: Framing.” Paper presentation, Annual Meeting of the Association of American Geographers, Washington, D.C., April 15, 2010.
- “Socio-Ecological Research in Political Ecologies: International Collaborations I & II.” Sessions Co-Organizer. Annual Meeting of the Association of American Geographers, Washington, D.C., April 15, 2010.
- “Lawn Landscapes in Suburban Boston: Human Drivers, Ecological Implications, and Ecosystem Services.” Invited presentation given at the U. of New Hampshire Environmental Sciences Seminar Series, November 5, 2009.
- “Vulnerability Research: What is it, and How do you do it?” Invited presentation given at CIRAD, Montpellier, France, July 11, 2009.

- “Understanding Suburban Landscapes: Lawns, Water, and Zoning in Boston.” Paper presentation, Annual Meeting of the Association of American Geographers, Las Vegas, March 24, 2009.
- “Understanding Coupled Natural-Human Systems – Developing Competitive Ideas for the NSF CNH Program.” Invited panel presentation, Annual Meeting of the Association of American Geographers, Las Vegas, March 23, 2009.
- “Using Lawn Maps to Catalyze Human-Environment Research: The Case of Suburban Boston.” Invited presentation at the Clark University George Perkins Marsh Institute, February 12, 2009.
- “Integrating Social and Natural Science: The Case of Climate, Land Use, and Nutrient Cycling in Coastal Zones.” Invited presentation at the University of Massachusetts Department of Natural Resources Conservation, Amherst, Massachusetts, October 17, 2008.
- “Links between the Law and Land-Change Science.” Invited presentation at the Vermont Law School, South Royalton, Vermont, October 3, 2008.
- “Advances in the Spatial Analysis of the Causes and Consequences of Suburbanization.” Invited presentation at the Brown University Spatial Structure in Social Science Department, Providence, Rhode Island, September 26, 2008.
- “Object-oriented land-cover classification for social science research involving environmental dynamics: the case of lawns in Ipswich, Massachusetts.” Presentation given at the 14th International Symposium on Society and Resource Management, Burlington, Vermont, June 12, 2008.
- “Linking driving forces of vulnerability to the consequences of regulations in New England fishing communities: a causal model to inform fisheries management.” Presentation given at the 14th International Symposium on Society and Resource Management, Burlington, Vermont, June 11, 2008.
- “Architecture of a Cross-Site Socio-Ecological Research Project: Thoughts from HERO and CNH-PIE Experiences.” Invited presentation at NSF LTER Science Council, Baltimore, Maryland, May 7, 2008.
- “Reflections on the Holy Grail of Integrating Social and Natural Science: The Case of Climate, Land Use, and Nutrient Cycling in Coastal Zones.” Invited presentation at the Marine Biological Laboratory, Woods Hole, Massachusetts, April 22, 2008.
- “Methods for Land Change and Community Adaptation Research.” Invited panel presentation, Annual Meeting of the Association of American Geographers, Boston, Massachusetts, April 15, 2008.
- “Climate Change Vulnerability and Adaptation Research: Lesson from the Field.” Invited discussant, Annual Meeting of the Association of American Geographers, Boston, Massachusetts, April 15, 2008.
- Participant in GLP Workshop on “The design of integrative models of natural and social systems in land change science,” Macaulay Institute, University of Aberdeen, Scotland, February 27-March 2, 2008.
- “Climate Change and Vulnerability.” Two invited panel discussions at Clark University Climate Change Campus-Wide Teach-In, January 31, 2008.
- “PIE NSF Site Review: New Social Science Directions.” Invited presentation to the PIE-LTER NSF Site Review, Crane Castle, Ipswich, Massachusetts, October 12, 2007.
- “Vulnerability Assessments: What lessons has the emerging tale taught us?” Invited presentation to the Sustainability Science Seminar, John F. Kennedy School of Government, Harvard University, October 9, 2007.
- “Linking Vulnerability Research to Land-Change Science.” One week of invited teaching. Global Land Project Advanced Institute on Modeling Land-Use Change, August 13-17, 2007. GLP Focus Group One Office, University of Hokkaido, Sapporo, Japan.
- “Vulnerability Research at the Science-Policy Interface.” Presentation given at the Annual Meeting of the Association of American Geographers, San Francisco, April 18, 2007.
- “Integrating Social, Ecological & Geographic Information Sciences: The HERO & PIE Programs.” Presentation given at Baltimore Ecosystem Study Long-Term Ecological Research team meeting, Baltimore, January 15, 2007.
- “Commentary: Climate Change Research in Massachusetts.” Presentation given at the Annual Meeting of the Massachusetts Historical Society, Boston, May 5, 2006.
- “Towards a Meta-Analysis of Vulnerability Assessments.” Presentation given at the Annual Meeting of the Association of American Geographers, Chicago, March 11, 2006.
- “Meta-Analysis: What is it, and How Can it Help Vulnerability Studies?” Presentation given – and workshop organized – at *Germanwatch*, Bonn, Germany, October 9, 2005.

- “Socio-economic Drought in Central Massachusetts: Recent Trends in Exposure, Sensitivity and Adaptive Capacity.” Presentation given at the Annual Meeting of the Association of American Geographers, Denver, April 5, 2005.
- “Using the Ricardian Climate Change Impacts Technique as a Tool for Environmental Decision Making.” Invited presentation at the University of Miami, Department of Geography, March 3, 2005.
- “Modeling Interactions in LUCC/IHDP Research by Combining Multi-Level Models with Qualitative Methods.” Invited presentation at LUCC/IHDP Workshop on Interactive Drivers in Coupled Human-Natural Systems, Bonn, Germany. November 18-19, 2004.
- “Integrating Natural, Social and Medical Sciences for Research on Impacts, Adaptation, and Vulnerability to Climate Change.” Invited Discussant, Annual Meeting of the Canadian Association of Geographers, Moncton, New Brunswick, Canada, May 28, 2004.
- “Vulnerability Assessments and Exploratory Spatial Data Analysis.” Invited lecture given at IIASA, Laxenburg, Austria. May 10, 2004.
- “Drought, Water Supply, Fire: How Does Place-Based Science Serve Society?” Invited Discussant, Annual Meeting of the Association of American Geographers, Philadelphia, March 2004.
- “Climate Change: Causes, Consequences, and Responses.” Invited Panel Speaker at public workshop, “Sustainable Solutions to Climate Change: A Challenge for Massachusetts,” December 1, 2003.
- “Adaptive Capacity: Towards a Useful Theory” Discussant, Open Meeting of the Human Dimensions of Global Environmental Change, October 2003, Montreal, Canada.
- “Spatial Statistics and LUCC Research.” Presentation given at Harvard Forest, Petersham, Massachusetts. September 19, 2003.
- “What's New With Vulnerability Studies?” Invited presentation given at the Department of Geography, the Pennsylvania State University, University Park, Pennsylvania, April 25, 2003.
- “Downscaling Climate Projections for Vulnerability Assessments: A Case Study in Northern Norway.” Presentation given at 99th Annual Meeting of the Association of American Geographers, New Orleans, Louisiana, March 5-8, 2003.
- “Human Dimensions Ten Years Hence: The Geographic Research Challenge.” Invited panel presentation given at 99th Annual Meeting of the Association of American Geographers, New Orleans, Louisiana, March 5-8, 2003. “Vulnerability Analysis: What is it, How to do it, & Who Cares?” Invited presentation given at Potsdam Institute for Climate Impact Research, Potsdam, Germany, February 27, 2003. “Arctic Vulnerability Study.” Poster presented at NOAA Office of Global Programs Human Dimensions of Global Change Research Program Principal Investigator’s Meeting, Seabrook Island, South Carolina, October 23- 25, 2002.
- “Workshop Background and Motivation.” Invited presentation given at the Vulnerability Methods & Models Workshop, Harvard University, Cambridge, Massachusetts, October 16, 2002. “Linking Knowledge to Action for Reducing Vulnerability to Climate Change.” Invited presentation given at the Department of Geography, Kansas State University, Manhattan, Kansas, October 10, 2002.
- “Climate Change Research: Impacts and Vulnerability Perspectives.” Invited presentation given at the Norwegian School of Veterinary Science, Tromsø, Norway, August 15, 2002.
- “Vulnerability to Climate Change and the Role of Institutions.” Presentation given at 5th Summer Institute, NOAA Climate & Global Change Postdoctoral Program, Steamboat Springs, Colorado, June 17-20, 2002.
- “Using Spatial Statistics to Investigate Agricultural Vulnerability to Climate Change.” Presentation at 98th Annual Meeting of the Association of American Geographers, Los Angeles, March 19-23, 2002.
- “Quantitative Methods for Assessing Vulnerability to Environmental Change.” Invited presentation given at Belfer Center for Science & International Affairs, Harvard University, Cambridge, Massachusetts, May 17, 2001.
- “Spatial Econometrics: Theory and Practice for Geographical Research.” Invited presentation given at the Department of Geography, Penn State University, University Park, Pennsylvania, April 20, 2001.
- “A Spatial Analysis of Agricultural Land-Use in the Great Plains.” Presentation given at 97th Annual Meeting of the Association of American Geographers, New York City, February 28-March 3, 2001.
- “Current State-of-the-Art of Climate Impacts Analysis in the United States: The Human Dimensions.” Invited presentation given at Workshop on the Impacts of Climate Change on New Jersey, Cook College, Rutgers University, New Brunswick, New Jersey, February 23, 2000.

- “A Hierarchical Perspective of Great Plains Agricultural Land Use.” Presentation given at 96th Annual Meeting of the Association of American Geographers, Pittsburgh, Pennsylvania, April 4-8, 2000.
- “Evaluating Land-Use Change at Multiple Spatial Scales.” Presentation given at Current Progress in Quantifying Spatially Explicit Causes and Effects of Land-use/cover Change: Examples from Around the World: An International Workshop, Wageningen University, the Netherlands, December 7-8, 1999.
- “Spatial Data Analysis With Geographic Information Systems.” One-week workshop attended at the 1999 Summer Program in Quantitative Methods of Social Research, Inter-University Consortium for Political and Social Research, Ann Arbor, Michigan. Instructor: Dr. Luc Anselin. August 9-13, 1999
- “Hierarchical Linear Models.” One-week workshop attended at the 1999 Summer Program in Quantitative Methods of Social Research, Inter-University Consortium for Political and Social Research, Ann Arbor, Michigan. Instructors: Stephen Raudenbush, Aline Sayer. July 12-16, 1999.
- “Towards a Multi-Scale Analysis of Agricultural Land-Use Change.” Presentation given at the 1999 Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Shonan Village, Kanagawa, Japan, June 24-26, 1999.
- “Drivers of Land-Use Change: Linking Information from Different Spatial Scales.” Presentation at 95th Annual Meeting of the Association of American Geographers, Honolulu, Hawaii, March 23-27, 1999.
- “A Brief Geography of the Mid-Atlantic Region.” Presentation to MARA Team Meeting with US EPA representatives, Pennsylvania State University, University Park, Pennsylvania, January 19, 1999.
- “Data Needs for Assessing the Determinants of Agricultural Land-Use Change.” Presentation given at the IGBP/IHDP/LUCC Data Gathering and Compilation Workshop, Institut Cartogràfic de Catalunya, Barcelona, Spain, November 18-20, 1998.
- “Reducing America’s Vulnerability to Coastal Hazards.” Symposium attended at the American Geophysical Union, Washington, DC, October 15, 1998.
- “Demystifying Climate Change: What Is It and Where Do We Fit In?” Invited panel presentation given at First Annual New Health Symposium: Panel on Health and Hope for Our Planet. Sponsored by Philadelphia Clean Air Council, Cell Tech, Inc. and Drexel University, Philadelphia, Pennsylvania, October 6, 1998.
- “Identifying Drivers of Land-Use Change at the Micro Scale.” Presentation given at AAG- & NSF-sponsored Community Meeting on Integrated Assessment Modeling, Washington, DC, July 9-10, 1998.
- “Researchers' Working Meeting on Climate Change Impacts in the Mid-Atlantic Region.” Workshop attended at the Pennsylvania State University, University Park, Pennsylvania, June 8-9, 1998.
- “Summer Training Institute in Theory and Methods of the Human Dimensions of Global Change.” Workshop attended at the Center for the Study of Institutions, Population, and Environmental Change, Indiana University, Bloomington, Indiana, May 18 - June 6, 1998.
- “Causes of Agricultural Land-Use Change in the Central Great Plains: A Multi-Scale Approach.” Presentation given at 94th Annual Meeting of the Association of American Geographers, Boston, Massachusetts, March 28, 1998.
- “The Susquehanna River Basin GCLP Study Site: Cross-scale Comparisons of Greenhouse Gas Inventories.” Presentation given at 94th Annual Meeting of the Association of American Geographers, Boston, Massachusetts, March 27, 1998.
- “Research on Spatial Scale and Global Environmental Change at the Penn State Center for Integrated Regional Assessment.” Presentation given at 94th Annual Meeting of the Association of American Geographers, Boston, Massachusetts, March 27, 1998.
- “Meeting in the Middle, Meeting of the Minds: Cross-Scale & Regional Research Experience and Needs.” Workshop attended at Belfer Center for Science and International Affairs, Harvard JFK School of Government, Cambridge, Massachusetts, March 25, 1998.
- “Local Response to Global Change: Strategies of Information Transfer and Decision Making for Cross-Scale Environmental Risks.” Workshop attended at Belfer Center for Science and International Affairs, Harvard JFK School of Government, Cambridge, Massachusetts, January 29-30, 1998.
- “Global Changes and Local Places: Lessons Learned and Future Directions at Mid-Course.” Workshop attended at AAG Meridian Place, Washington, DC, December 13-15, 1997.
- “Greenhouse Gas Emission Inventories: Methodology, Accuracy & Spatial Resolution.” Presentation at Regional Science Association International Annual Meeting, Buffalo, New York, November 6-9, 1997.

- “Mid-Atlantic Workshop on Climate Change.” Workshop attended as rapporteur for White House-sponsored conference on climate change impacts, Penn State Center for Integrated Regional Assessment, University Park, Pennsylvania, September 9-11, 1997.
- “Environmental Life Cycle Assessment: From Criticizing to Carrying Out.” Workshop attended at MIT Technology, Business and Environment Program, Cambridge, Massachusetts, July 6-9, 1997.
- “Regional Forecasting and Policy Analysis Seminar and Workshop.” Workshop attended at Regional Economic Modeling, Inc., Amherst, Massachusetts, April 28 - May 2, 1997.

--end of curriculum vitae, 8/28/14--