

Todd BenDor

CONTACT INFORMATION

Department of City and Regional Planning
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EDUCATION

- Ph.D. in Regional Planning** May 2007
University of Illinois at Urbana-Champaign, Champaign, IL
- Dissertation topic: 'Redistribution Effects of Wetland Mitigation over Space and Time.'
 - Advisors: Varkki Pallathucheril, Bruce Hannon, Nick Brozovic, and David Kovacic.
 - Earned Center for Teaching Excellence 'Graduate Teaching Certificate.'
- 2004 Santa Fe Institute Complex Systems Summer School** June – July 2004
- Selected to enroll in course and project work at highly selective complexity workshop.
 - Created agent-based model of land-use change and climate interaction.
- M.S. in Environmental Science** August 2003
Washington State University, Pullman, WA
- Thesis topic: Simulating Scrappage and Feebate Programs for Reduced Automobile Emissions.
 - Advisor: Andrew Ford.
- B.S. in System Dynamics (Distinction)** May 2002
Worcester Polytechnic Institute, Worcester, MA
- Senior thesis: The System Dynamics of Automobile Fuel Economy. James Lyneis, Advisor.
 - Junior Thesis: Risk Amplification of GMOs in Europe (Completed in Basel/Zurich, Switzerland). Wesley Jamison, Advisor.
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PROFESSIONAL EXPERIENCE

- 2012 Frederick J. Clarke Fellow** Spring 2012
Institute for Water Resources, U.S. Army Corps of Engineers, Alexandria, VA
- Visiting Scholar** Spring 2012
Department of Urban Studies and Planning, Massachusetts Institute of Technology, Cambridge, MA
- Visiting Professor** Fall 2011
Géographie-cités (CNRS Research Project), Institut de Géographie, Université Paris 1 (Panthéon-Sorbonne), Paris, France
- Assistant/Associate Professor (with Tenure)** 2007 – 2013, 2013-Present
Department of City and Regional Planning, University of North Carolina at Chapel Hill
- Director of Graduate Studies (2013-Present)
 - Director of land use and environmental planning specialization (2013-Present)
 - Associate Director of DCRP PhD Program (2012-2013)
 - Faculty Fellow: Center for Urban and Regional Studies (CURS) and UNC Institute for the Environment
 - Faculty Member of UNC Curriculum in Ecology and the Environment

Post-Doctoral Research Associate	August 2007 – August 2008
<i>Land Use Evolution and Impact Assessment Modeling Laboratory (LEAM), UIUC</i>	
<ul style="list-style-type: none"> • Collaborative work on urban land use modeling and environmental impact assessment 	
Research Assistant	August 2003 – June 2007
<ul style="list-style-type: none"> • Land Use Evolution and Impact Assessment Modeling (LEAM) Laboratory, <i>Urban and Regional Planning, UIUC</i> • Renewable Energy in Illinois Project, <i>Program in Arms Control and Disarmament, and International Security, UIUC</i> • Regional Economics and Policy (REAP) Laboratory, <i>Agricultural Economics Department, UIUC</i> 	
Instructor	January 2006 – May 2006
<i>Analytical Planning Research Methods (Urban Planning 116), UIUC</i>	
Teaching Assistant	Spring 2005, Spring 2006
<i>Spatial Ecosystem Modeling (Geography/Natural Resources 469), UIUC</i>	
Research Assistant	August 2002 – June 2003
<i>Program in Environmental Science and Regional Planning, WSU</i>	

HONORS

- Frederick J. Clarke Scholar – Institute of Water Resources, U.S. Army Corps of Engineers (Spring 2012; \$12,000 for travel)
 - Lone Mountain Fellow – Property and Environment Research Center (July, 2010)
 - Sigma Xi National Scientific Research Society (Full Member, Elected 2009)
 - 2009 GlaxoSmithKline Faculty Fellow – Institute for Emerging Issues, N.C. State University
 - Outstanding Ph.D. Award, UIUC Department of Urban and Regional Planning, May 2007
 - Dana Meadows Award, Best student paper presented at 2005 International System Dynamics Society Conference
 - University of Illinois Conference Travel Award: Omaha, Nebraska (May, 2004), Fort Worth, TX (Nov., 2006)
 - Philip Abelson Fellowship, Washington State University, 2003
 - Edward R. Meyer Scholarship, Washington State University, 2003
 - Institute Scholarship, Worcester Polytechnic Institute 2000-2002
 - Admitted to WPI Zurich Project Center to complete junior thesis
 - Member of Phi Theta Kappa, international two-year honor society (Inducted 1997)
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PUBLICATIONS

Peer Reviewed Articles (* Denotes Student Author)

35. BenDor, Todd K., Douglas A. Shoemaker*, Jean Claude Thill, Monica Dorning*, Ross K. Meentemeyer. 2014. A Mixed-Methods Analysis of Socio-ecological feedbacks between urbanization and forest persistence. *Ecology and Society* (In Press).
34. Robertson, Morgan, Todd BenDor, Rebecca Lave, Adam Riggsbee, J.B. Ruhl, and Martin Doyle. 2014. Stacking ecosystem services. *Frontiers in Ecology and the Environment* 12: 186–193.
33. BenDor, Todd K. and Sierra Woodruff*. 2014. Moving targets and biodiversity offsets for Endangered Species Habitat: Is Lesser Prairie Chicken Habitat a Stock or a Flow? *Sustainability* 6(3), 1250-1259.
32. BenDor, Todd K., Tianshu Guo*, and Andrew Yates. 2014. Optimal Staging of Credit Releases in Ecosystem Service Markets. *Environmental Management* 53:496–509.
31. Rissman, Jeffrey*, Sarav Arunachalam, Todd BenDor, Jason West. 2013. Equity and Health Impacts of Aircraft Emissions at the Hartsfield-Jackson Atlanta International Airport. *Landscape and Urban Planning* 120: 234-247.
30. Rissman, Jeffrey*, Sarav Arunachalam, Matt Woody, Jason West, Todd BenDor, H. Wong, and F. Binkowski. 2013. An Enhanced Sub-grid Scale Approach to Characterize Air Quality Impacts of

Aircraft Emissions at the Hartsfield-Jackson Atlanta International Airport. *Atmospheric Chemistry and Physics* 13: 9285–9302.

29. Nikhil Kaza and Todd K. BenDor. 2013. Land Value Impacts of Wetland Restoration. *Journal of Environmental Management* 127:289-299.
28. BenDor, Todd K., James Westervelt, and Yan Song. 2013. Modeling park development through regional land use change simulation. *Land Use Policy* 30(1): 1-12.
27. BenDor, Todd K. and Nikhil Kaza. 2012. A Theory of Spatially Dynamic Reference Modes and System Archetypes. *System Dynamics Review* 28(2): 109-130.
26. BenDor, Todd K. 2012. The System Dynamics of Automobile American Fuel Economy. *Sustainability* 4: 1013-1042.
25. Oppenheimer, Kathleen* and Todd BenDor. 2012. A Comprehensive Solution to the Marine Biofouling Problem for the Endangered Florida Manatee and other Species. *Environmental Law* 42(2): 415-467.
24. Doyle, Martin and Todd K. BenDor. 2011. Evolving Law and Policy for Freshwater Ecosystem Service Markets. *William & Mary Environmental Law & Policy Review* 36(1): 153- 191.
23. BenDor, Todd K., Adam Riggsbee and Martin Doyle. 2011. Risk in Ecosystem Service Markets. *Environmental Science and Technology* 45(24): 10322-10330.
22. BenDor, Todd K., Philip Berke, Dave Salvesen, Yan Song, and Nora Lenahan*. 2011. Assessing Local Government Capacity to Manage and Model Military-Induced Growth in Eastern North Carolina. *Planning Practice and Research* 26(5): 531-553.
21. Van Schaack, Chandler* and Todd K. BenDor. 2011. A Comparative Study of Green Building in Urban and Rural North Carolina. *Journal of Environmental Planning and Management* 54(8): 1125-1147.
20. BenDor, Todd K. and Adam Riggsbee. 2011. Regulatory and Ecological Risk under Federal Requirements for Compensatory Wetland and Stream Mitigation. *Environmental Science and Policy* 14: 639-649.
19. BenDor, Todd K., Sara Metcalf, Mark Paich. 2011. The Dynamics of Brownfield Redevelopment. *Sustainability* 3(6): 914-936
18. BenDor, Todd K. and Adam Riggsbee. 2011. Effects of Federal Mitigation Rules on Wetland and Stream Mitigation Banking Risk. *Environmental Science and Policy* 14(3): 301-314.
Selected as Editor's Choice in Science: "Banking on Wetlands" (29 April, 2011; Science 332: 514)
17. BenDor, Todd K. and Audrey Stewart*. 2011. Land Use Planning and Social Equity in North Carolina's Compensatory Wetland Mitigation Program. *Environmental Management* 47(2): 239-253.
16. BenDor, Todd K. and James Westervelt. 2011. A Technique for Rapidly Assessing Regional Scale Urban Growth. *Environment and Planning: B* 38(1): 61-81.
15. Berg, Hannah* and Todd K. BenDor. 2010. A Case Study of Form-Based Solutions for Watershed Protection. *Environmental Management* 46: 436–451.
14. Metcalf, Sara S., Emily Wheeler, Todd K. BenDor, Ken Lubinski, and Bruce M. Hannon. 2010. Sharing the Floodplain: Finding Common Ground through Mediated Modeling. *Environmental Modelling and Software* 25(11): 1282-1290.
13. BenDor, Todd K. and Martin Doyle. 2010. Planning for Ecosystem Service Markets. *Journal of the American Planning Association* 76(1): 59-72.
12. Hamstead, Zoe* and Todd K. BenDor. 2010. Nutrient Trading for Enhanced Water Quality: A Case Study of North Carolina's Neuse River Compliance Association. *Environment and Planning: C* 28(1): 1-17.
11. BenDor, Todd K., Joel Sholtes*, Martin Doyle. 2009. Landscape Characteristics of a Stream and Wetland Mitigation Banking Program. *Ecological Applications* 19(8): 2078-2092

10. BenDor, Todd K. Jim Westervelt, J.P. Aurambout, and William Meyer. 2009. Simulating Population Variation and Movement within Fragmented Landscapes: A Spatial Dynamic Model of the Gopher Tortoise (*Gopherus polyphemus*). *Ecological Modelling* 220: 867-878.
9. Scheffran, Jurgen, Todd K. BenDor, and Bruce M. Hannon. 2009. Bioenergy and Land Use: A Spatial-Agent Dynamic Model of Energy Crop Production in Illinois. *International Journal of Environment and Pollution* 39(1/2): 4-27.
8. BenDor, Todd K., Jurgen Scheffran, and Bruce M. Hannon. 2009. Ecological and Economic Sustainability in Fishery Management: A Multi-Agent Model for Understanding Competition and Cooperation. *Ecological Economics* 68(4): 1061-1073.
7. BenDor, Todd K. 2009. A Dynamic Analysis of the Wetland Mitigation Process and Its Effects on No Net Loss Policy. *Landscape and Urban Planning* 89: 17-27.
6. BenDor, Todd K., Nicholas Brozovic, and Varkki George Pallathucheril. 2008. The Social Impacts of Wetland Mitigation Policies in the United States. *Journal of Planning Literature* 22: 341-357.
5. BenDor, Todd K. and Nicholas Brozovic. 2007. Determinants of Spatial and Temporal Patterns in Compensatory Wetland Mitigation. *Environmental Management*, 40(3): 349-364
4. BenDor, Todd K., Nicholas Brozovic, and Varkki George Pallathucheril. 2007. Assessing the Socioeconomic Impacts of Wetland Mitigation in the Chicago Region. *Journal of the American Planning Association* 73(3): 263-282.
3. BenDor, Todd K., Sara S. Metcalf, Lauren E. Fontenot, and Brandi Sanguinett. 2006. Modeling the Emerald Ash Borer Spread: A Decision Support System for Invasive Species Eradication. *Ecological Modelling*, 197: 221-236.
2. BenDor, Todd K. and Sara S. Metcalf. 2006. The Spatial Dynamics of Invasive Species Spread. *System Dynamics Review*, 22(1): 27-50.
1. BenDor, Todd K. and Andrew Ford. 2006. Simulating a Combination of Feebates and Scrappage Incentives to Reduce Automobile Emissions. *Energy*, 31: 1197-1214.

Book Chapters

- Daniel A. Auerbach* and Todd K. BenDor. Prospects for Pre-Listing Conservation in Freshwater Ecosystems. 2014. In: *Markets and the Endangered Species Act: Incentivizing Conservation Upstream of Regulation*, edited by Josh Donlan and Todd Gardner. University of California Press: Berkeley, CA. Chapter 7 (In Press).
- Westervelt, James and Todd K. BenDor. (2012). A Technique for Rapidly Forecasting Regional Urban Growth. In: *Ecologist-Developed Spatially-Explicit Dynamic Landscape Models*, edited by James Westervelt and Gordon Cohen. Springer-Verlag: New York. Pgs. 223-234.
- BenDor, Todd K, James Westervelt, J.P. Aurambout, and William Meyer. (2012). Simulating Gopher Tortoise (*Gopherus polyphemus*) Populations in Fragmented Landscapes: an Application of the FRAGGLE model. In: *Ecologist- Developed Spatially-Explicit Dynamic Landscape Models*, edited by James Westervelt and Gordon Cohen. Springer- Verlag: New York. Pgs. 171-195.
- Doyle, Martin and Todd K. BenDor. 2012. Markets for freshwater ecosystem services. In: *Aquanomics: Water Markets and the Environment*. Edited by D. Gardener and R. Simmons. Independent Institute Press: San Francisco, CA. Pgs. 17-42.
- BenDor, Todd K. Flood Control. In: *The Encyclopedia of Issues in U.S. Public Policy*, edited by Mark Rushefsky. Gale Public Policy: Farmington Hills, MI. (In Press, unknown publication date).
- Jamison, Wesley, Todd K. BenDor, Adrienne L. Kolpak, and Maureen A. McDonnell. 2004. Political and Social Risk Amplification of GMOs. In: *Handbook of Plant Biotechnology*, edited by Paul Christou. London: John Wiley & Sons. Pgs. 949-957 (Chapter 50)

Publications in Review

- Widis, Daniel C. *, Todd BenDor, and Michael Deegan. Identifying and Prioritizing Wetland Restoration Sites: A Review and Application to a Large-Scale Coastal Restoration Program. *Landscape and Urban Planning* (In Review).

- BenDor, Todd K., Avery Livengood*, T. William Lester, Adam Davis, and Logan Yonavjak. 2014. Defining and Evaluating the Restoration Economy. *Landscape and Urban Planning* (in Review)
- BenDor, Todd K. and Vivek Shandas. Ecosystem Services and Stormwater Management: An Agenda for Improving Urban Stormwater Decisions. *Ecology and Society* (In Review).
- BenDor, Todd K. and Danielle Spurlock. The Potential Role of Ecosystem Services in the American Land Use and Environmental Planning Process. *Journal of the American Planning Association* (In Review).
- Woodruff, Sierra* and Todd K. BenDor. Do Watershed Frameworks or Plans Influence Ecosystem Restoration Site Location? *Frontiers in Ecology and the Environment* (In Review).

Publications in Progress

- Book Manuscript:** BenDor, Todd K. and Jurgen Scheffran. Dynamic and Agent Based Models for Environmental Conflict Resolution. (In Preparation).
- BenDor, Todd K., Nikhil Kaza, and Jurgen Scheffran. Interaction in Climate Games: The Case of Emissions Trading. *Ecological Modelling* (In Preparation).
- BenDor, Todd K. and Kenneth Belt. A Dynamic Model of Carbon Impacts and Offsets. *System Dynamics Review* (In Preparation).
- Brozovic, Nicholas, Taro Takahashi*, and Todd K. BenDor. Where and Why does Water Quality Trading Exist? (In Preparation).
- BenDor, Todd K., Nicholas Brozovic, and Cliff Sunda. Streamlining Ecosystem Offset Permitting to Improve Efficiency. (In Preparation).
- BenDor, Todd K., Joel Shlagel, Mark Sudol, Bob Brumbaugh, Michael Deegan. Exploring and Visualizing a Century of American Aquatic Ecosystem Impacts. (In Preparation).
- Welsh, Miranda* and BenDor, Todd K. Measuring the Connection between Diversity and Stability: A bridge between island economies and ecosystem theory. (In Preparation).
- Jordanova, Tania*, Todd K. BenDor, and Brian Miles*. Land Use, Stormwater Management, and Bacterial Contamination: A Geospatial Analysis of North Carolina Streams. (In Preparation).
- Pories, Lesley Jeanne* and Todd K. BenDor. Leveraging environmental treaties to influence domestic development: A case study of the Kazakhstan-China Ili-Balkhash Basin Conflict. (In Preparation).

Other Publications

- BenDor, Todd K. and Sierra Woodruff*. 2014. Comments on the Environmental Defense Fund and American Habitat Center Habitat Credit Exchange (HCEX) (FWS-R2-ES-2013-0134) by USFWS, "Notice of Intent to Prepare an Environmental Impact Statement for a Habitat Conservation Plan for Commercial Developments, Including Energy Developments, and Agricultural and Conservation Activities Within Six States" (79 FR 7472).
- BenDor, Todd K., T. William Lester, Avery Livengood*, Adam Davis, and Logan Yonavjak*. 2014. Exploring and Understanding the Restoration Economy. Final report to Walton Family Fund. Also UNC Center for Urban and Regional Studies white paper [Online]: <https://curs.unc.edu/files/2014/01/RestorationEconomy.pdf>
- BenDor, Todd K. and Sierra Woodruff*. 2014. Comments on the temporary/permanent nature of LPC habitat impacts. Formal comments submitted to federal rulemaking (FWS-R2-ES-2012-0071; 4500030113) by USFWS, "Endangered and Threatened Wildlife and Plants; Listing the Lesser Prairie-Chicken as a Threatened Species With a Special Rule" (50 CFR Part 17).
- BenDor, Todd K. and Sierra Woodruff*. 2014. Comments on the Western Association of Fish and Wildlife Agencies' Lesser Prairie-Chicken Range-Wide Conservation Plan. Formal comments submitted to federal rulemaking (FWS-R2-ES-2012-0071; 4500030113) by USFWS, "Endangered and Threatened Wildlife and Plants; Listing the Lesser Prairie-Chicken as a Threatened Species With a Special Rule" (50 CFR Part 17). Also published as UNC Institute for the Environment Whitepaper (In production).
- BenDor, Todd K. and Sierra Woodruff*. 2014. Moving targets and biodiversity offsets for endangered

species habitat: Is habitat a stock or flow? UNC Institute for the Environment Whitepaper (In production)

BenDor, Todd K. and Sierra Woodruff*. 2014. Preliminary Analysis of the Habitat Credit Exchange (HCEX). UNC Institute for the Environment Whitepaper (In production).

Berkey,* Kathleen Oppenheimer and Todd K. BenDor. 2013. A Comprehensive Solution to the Biofouling Problem for the Endangered Florida Manatee & Other Species. *Planning and Law* (Summer 2013): 7. Planning and Law Division of the *American Planning Association*.

BenDor, Todd K. and Robert Goodspeed. 2013. Keeping Up with the Field: Computerized Tools for Tracking Research and New Ideas. *Planetizen* (Tuesday, Feb 5, 2013). [Online]: <http://www.planetizen.com/node/60607>

Leitelt, Lyle* and Todd BenDor. 2010. Developing a Solar Energy Potential Map for Chapel Hill, NC. *Planning Advisory Service Memo*. (November/December 2010). [Also Online]: <http://www.planning.org/pas/memo/2010/nov/>

BenDor, Todd K., Joel Sholtes*, and Martin Doyle. 2010. Landscape Characteristics of a Stream and Wetland Mitigation Banking Program (abstract). *National Wetlands Newsletter* 32(4): 16

BenDor, Todd K. and Martin Doyle. The Authors Respond. *National Wetlands Newsletter* 32(4): 21

BenDor, Todd and Chandler Van Schaack*. 2010. Greener building for a growing rural NC," Op-Ed in *Asheville Citizen-Times* (Asheville, NC: April 20, 2010). [Also Online]: <http://www.citizen-times.com/apps/pbcs.dll/article?AID=2010100419033>

BenDor, Todd, J. Adam Riggsbee, and George Howard. 2010. A Survey of Mitigation Banker Perceptions and Experiences Under the 2008 Federal Mitigation Regulations. *National Wetlands Newsletter* 32(2): 11-15.

Doyle, Martin and Todd BenDor. "Stream Restoration: Who Really Benefits," Op-Ed in *Raleigh News and Observer* (Raleigh, NC: December 8, 2009). [Also Online]: http://www.newsobserver.com/opinion/columnists_blogs/other_views/story/242385.html

BenDor, Todd, J. Adam Riggsbee, and George Howard. "Mitigation Bankers Say New Rule Heightens Old Conflicts: Survey." Op-Ed at *Ecosystem Marketplace* (November 20, 2009; [EMP is a major, worldwide clearinghouse for ecosystem services and market information]). [Online]: http://ecosystemmarketplace.com/pages/article.opinion.php?component_id=7231&component_version_id=11043&language_id=12

BenDor, Todd. "A New Form of Water-Quality Protection," Op-Ed in *Raleigh News and Observer* (Raleigh, NC: November 1, 2009). [Also Online]: http://www.newsobserver.com/opinion/columnists_blogs/other_views/story/166402.html.

BenDor, Todd K. and Adam Riggsbee. A National Survey of Federal Mitigation Regulations and their Impacts on Wetland and Stream Banking. Report to the National Mitigation Banking Association (NMBA) (Orlando, FL).

BenDor, Todd. "BRAC Demands Require Creativity," Op-Ed in *Fayetteville Observer* (Fayetteville, NC: July 9, 2009). [Also Online]: <http://www.fayobserver.com/Articles/2009/07/08/915698>.

Berke, Phillip, Todd BenDor, Dave Salvesen, Yan Song and Nora Lenahan*. 2009. "Building Local Government Capacity to Manage Growth in Eastern North Carolina." A Report to support the Southeast Regional Partnership for Planning and Sustainability (SERPPAS). Center for Sustainable Community Design, Institute for the Environment. University of North Carolina at Chapel Hill: Chapel Hill, NC.

BenDor, Todd and Martin Doyle. "Build the Environment, Too," Op-Ed in *Raleigh News and Observer* (Raleigh, NC: March 5, 2009). [Also Online]: <http://www.newsobserver.com/opinion/columns/story/1428828.html>.

BenDor, Todd and Nicholas Brozovic. 2007. The Role of Regulatory Change on Wetlands Mitigation. *The National Wetlands Newsletter*, 29(4): 10-13, 21.

BenDor, Todd K., Jeff M. Bielicki, Brian S. Powell, and Derrick T. Robinson. 2004. Modeling Feedback Mechanisms Between Land Use and Climate Change. Proceedings of the 2004 Santa Fe Institute

Complex Systems Summer School, Santa Fe, NM (June 6–July 3, 2004). Paper and plenary session presentation.

Peer Reviewed Conference Papers

- BenDor, Todd K. 2012. Planning and the Geography of Green Development. 2012 Associated Collegiate Schools of Planning (ACSP) Conference, Cincinnati, OH. (Nov 1-4, 2012). Round table discussion.
- Yates, Andrew and Todd K. BenDor. 2011. Optimal Contracts for Wetland Mitigation. Southern Economic Association 81st Annual Meeting, Washington DC. (November 19-21, 2011). Parallel session presentation
- Nikhil, Kaza and Todd K. BenDor. 2011. Land Value Impacts of Aquatic Ecosystem Restoration: An Analysis of the Research Triangle Region of North Carolina. 2011 Associated Collegiate Schools of Planning (ACSP) Conference, Salt Lake City, UT. (October 13-16 2011). Parallel session presentation.
- BenDor, Todd K. 2010. Risk and Regulation in Markets for Ecosystem Services. 2010 Associated Collegiate Schools of Planning (ACSP) Conference, Minneapolis, MN. (October 2010). Paper and parallel session presentation.
- BenDor, Todd K. and Martin Doyle. 2009. Urban Planning and Ecosystem Service Markets. 2009 Associated Collegiate Schools of Planning (ACSP) Conference, Washington, D.C. (October 2009). Paper and parallel session presentation.
- BenDor, Todd K., James Westervelt, Jean-Phillippe Aurambout, and William Meyer. 2008. Modeling the Impacts of Land Use Change on Wildlife Habitat Fragmentation and Genetic Diversity. 2008 Associated Collegiate Schools of Planning (ACSP)/AESOP Conference, Chicago, IL (July 2008). Paper and parallel session presentation.
- BenDor, Todd K. and Nicholas Brozovic. 2007. Wetland Mitigation Method Selection and Developer Decision-Making Processes. 2007 Associated Collegiate Schools of Planning (ACSP) Conference, Milwaukee, WI (November 2007). Paper and parallel session presentation.
- BenDor, Todd K. 2007. Modeling the Wetland Mitigation Process: A New Dynamic Vision of No Net Loss Policy. Proceedings of the 25th International System Dynamics Conference, Boston, MA (July 29 – August 2, 2007). Paper and parallel session presentation.
- Scheffran, Jurgen, Todd K. BenDor, Yun Wang, and Bruce Hannon. 2007. A Spatial-Dynamic Model of Bioenergy Crop Introduction in Illinois. Proceedings of the 25th International System Dynamics Conference, Boston, MA (July 29 – August 2, 2007). Paper and parallel session presentation.
- BenDor, Todd K. and Nicholas Brozovic. 2006. Mitigation Policy and its Effects on Wetland Relocation and Redistribution in the Chicago Region. 2006 North American Meetings of the Regional Science Association International, Toronto, ON (November 15-18, 2006). Paper and parallel session presentation.
- BenDor, Todd K. 2006. Socioeconomic Impacts of Wetland Mitigation: A Spatial Analysis of the Chicago, IL Region. 2006 Associated Collegiate Schools of Planning (ACSP) Conference, Fort Worth, TX (November 9-12, 2006). Paper and parallel session presentation.
- Scheffran, Jurgen, Todd K. BenDor, and Bruce M. Hannon. 2005. An Exploration of Competition and Cooperation through a Multi-Agent Dynamic-Game Model of Fishery Management. Proceedings of the 24th International System Dynamics Conference, Nijmegen, Netherlands (July 17-21, 2005). Paper.
- BenDor, Todd K., Varkki George Pallathucheril, and Bruce M. Hannon. 2005. Modeling the Spread of the Emerald Ash Borer: A Knowledgebase for Future Eradication Strategies. 2005 Associated Collegiate Schools of Planning (ACSP) Conference, Kansas City, MO (October 27-30, 2005). Paper and parallel session presentation.
- BenDor, Todd K., Sara S. Metcalf, Lauren E. Fontenot, and Brandi Sanguinett. 2005. A Decision Support System for Emerald Ash Borer Eradication Using Spatial-Dynamic Modeling. 23rd International System Dynamics Conference, Boston MA (July 17-21, 2005). Paper and plenary session presentation.

BenDor, Todd K. and Sara S. Metcalf. 2005. Conceptual Modeling and Dynamic Simulation of Brownfield Redevelopment. 23rd International System Dynamics Conference, Boston MA (July 17-21, 2005). Paper and parallel session presentation.

Non-Refereed Conference Presentations

Shoemaker, Douglas A., Ross K. Meentemeyer, Todd K. BenDor. "The Roots That Bind: A Spatial Analysis of Forest Persistence and Woodland Owner Values at the Urban Frontier." US-IALE 2013 (Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology), Austin, TX (April 14-18, 2013).

BenDor, Todd K. "Prioritizing Wetland: Restoration: A Review and Application to the Mississippi Coastal Improvements Program, U.S.A." ACES and Ecosystem Markets 2012, Fort Lauderdale, FL (December 10-14, 2012). Moderator for "Ocean Ecosystem Services" session.

Robertson, Morgan, Todd K. BenDor, Rebecca Lave, Adam Riggsbee, Martin Doyle, and J.B. Ruhl. "To bundle or to stack? The challenges in marketing multiple ecosystem services." Meeting of the Ecological Society of America, Portland OR (August 10, 2012). Parallel session presentation.

Robertson, Morgan, Todd BenDor, Rebecca Lave, Adam Riggsbee, Martin Doyle, and J.B. Ruhl. Stacking Ecosystem Services. 4th International Eco-Summit, Columbus, Ohio (September 3-October 5, 2012). Parallel session presentation.

Thill, Jean-Claude F, Ross K. Meentemeyer, William Ribarsky, Chunhua Wang, Douglas Shoemaker, Vicki Bott, Todd BenDor. Can Urbanization, Forest and Working Lands Coexist? Analysis of Socio-Ecological Interactions in the Charlotte Metropolitan Region. 58th Annual North American Meetings of the Regional Science Association International 2011, Miami, FL (November 9-12, 2011). Parallel session presentation.

Ross K. Meentemeyer, Jean-Claude Thill, William Ribarsky, Chunhua Wang, Douglas A. Shoemaker, Vicki Bott, Todd BenDor. 2011. Hierarchical Analysis of Socio-Ecological Interactions in the Charlotte Metropolitan Region: Can Urbanization, Forest and Working Lands Coexist? U.S. International Association of Landscape Ecology Conference, Portland, OR (April, 2011). Parallel session presentation.

BenDor, Todd K, Daniel Spethmann, and David Urban. 2010. Economic Impact of Regulatory Timing on Mitigation Bank Returns. 13th Annual National Mitigation and Ecosystem Banking Conference, Austin, TX (May 3-6, 2010). Parallel session presentation.

Philip Berke, Larry Band, Todd BenDor, David Salvesen, and Yan Song. 2009. Building Local Government Capacity to Manage Growth in Eastern North Carolina. SERPPAS Principals' Meeting, Charleston, South Carolina (May 19 – 20, 2009). Poster Presentation.

BenDor, Todd K. 2009. Credit Release Schedules and their Implications for Compensatory Mitigation Markets. 12th Annual National Mitigation and Ecosystem Banking Conference, Salt Lake City, UT (May 5-8, 2009). Parallel session presentation.

BenDor, Todd K., Martin Doyle, Joel Sholtes*. 2008. Landscape Characteristics of a Stream and Wetland Mitigation Banking Program: The North Carolina Ecosystem Enhancement Program. North Carolina Water Resource Research Institute (WRI) Annual Meeting, Raleigh, NC (October 8-9, 2008). Parallel session presentation.

BenDor, Todd K., Martin Doyle, Joel Sholtes*. 2008. Spatial characteristics of an emergent stream mitigation banking program: economic and ecological implications. 29th Society of Wetland Scientists Annual Meeting, Washington, DC (May 26-30, 2008). Parallel session presentation.

Wheeler, Emily, Ken. S. Lubinski, Todd K. BenDor, Bruce Hannon, Sara S. Metcalf. 2008. Stakeholder Participation: When the Modeling Process is as Important as the Product. 2nd USGS Modeling Conference, "Painting the Big Picture", Orange Beach, Alabama (February 11-15, 2008). Poster Presentation.

BenDor, Todd K. 2007. A Dynamic View of No Net Loss: Modeling the Wetland Mitigation Process. 28th Society of Wetland Scientists Annual Meeting, Sacramento, CA (June 10-15, 2007). Parallel session presentation.

- Wheeler, Emily, Sara S. Metcalf, and Todd K. BenDor. 2006. Process as Product: Seeking Common Ground for Floodplain Functionality and Development. 2006 International Conference on Rivers and Civilization, LaCrosse, WI (June 25-28, 2006). Poster presentation.
- BenDor, Todd K. 2006. Spatial Trends in Off-Site Wetland Mitigation in the Chicago Region. 2006 AAG Annual Meeting, Chicago, IL (March 7-11, 2006). Parallel session presentation.
- BenDor, Todd K. 2005. Dissertation Research Proposal: "Mitigation Effects on Wetland Redistribution through Space and Time." 6th System Dynamics PhD Colloquium at the 23rd International System Dynamics Conference, Boston MA (July 17, 2005). Plenary session presentation.
- BenDor, Todd K. 2005. Effective Public Investment in the St. Louis Region: "More for your Money". East-West Gateway Coordinating Council Blueprint Workshop, St. Louis, MO (June 16, 2005). Poster Presentation.
- BenDor, Todd K. 2005. LEAM Brownfield Redevelopment Model. East-West Gateway Coordinating Council Blueprint Workshop, St. Louis, MO (June 16, 2005). Poster Presentation.
- Pallathucheril, Varkki George, Todd K. BenDor, and Sara S. Metcalf. 2004. Regional Modeling and the Role of Brownfields Redevelopment in Urban Land Use Transformation. Brownfields 2004: Gateway to Revitalization, St. Louis, MO (September 20-22, 2004). Parallel session presentation.
- BenDor, Todd K. 2004. Modeling the Development of Urban Recreational Open Space. 24th Annual National Association of Recreation Resource Planners Conference, Omaha, Nebraska (May 16-20, 2004). Parallel session presentation.
- BenDor, Todd K. 2004. LEAM Open Space Model. East-West Gateway Coordinating Council Blueprint Workshop, St. Louis, MO (May 21, 2004). Poster Presentation.

Workshops and Invited Presentations

- "Introduction to Agent-Based Modeling." UNC Odum Institute for Research in the Social Sciences (IRSS). Led 1-day workshop on agent-based modeling. Chapel Hill, NC (April 30, 2014).
- "Academic Publishing 1401." UNC Odum Institute for Research in the Social Sciences (IRSS). Half-day workshop. Chapel Hill, NC (April 4, 2014).
- "Innovative Approaches to Urban Conservation" Duke Conservation Society, Annual Forum (March 29, 2014)
- "Introduction to System Dynamics Modeling." UNC Odum Institute for Research in the Social Sciences (IRSS). Led 2-day workshop on systems thinking and modeling. Chapel Hill, NC (December 11-12, 2013).
- "Spatial System Archetypes" MIT Sloan School of Management, System Dynamics Group. Cambridge, MA (Friday, October 25, 2013).
- "Evolving law and policy for freshwater ecosystem service markets." Guizhou University International Symposium on Ecological Construction and Green Development. Guiyang, China (July 19, 2013).
- "Evolving policy, planning, and law for ecosystem service markets." 2013 Eco-Forum Global Annual Meeting. Guiyang, China (July 19, 2013).
- "Incorporating Ecosystem Services to Improve Urban Planning and Policy." NAKFI Mid-Cycle Grant Meeting. Chicago, IL (June 24, 2013)
- "Introduction to Agent-Based Modeling." UNC Odum Institute for Research in the Social Sciences (IRSS). Led 1-day workshop on agent-based modeling. Chapel Hill, NC (April 19, 2013).
- "Ecosystem Services as a New Foundation for Stormwater Planning." Part II of National Academies Keck Futures Initiative (NAKFI) funded workshop series, "Incorporating Ecosystem Services to Improve Urban Planning and Policy." University of North Carolina at Chapel Hill. Chapel Hill, NC (April 10-12, 2013). Principal organizer.
- "Prioritizing Wetland Restoration: A Review and Application to the Mississippi Coastal Improvements Program (MsCIP)." UNC Curriculum in Ecology and the Environment Seminar. Chapel Hill, NC (February 14, 2013).
- "Agent Based Modeling and Conflict." Human Domain Analysis Workshop, U.S. Army Special Operations

Command (USSOC), Fayetteville, NC (November 14th, 2012).

“An Agenda for Improving Urban Stormwater Decisions Using Ecosystem Services.” Part I of National Academies Keck Futures Initiative (NAKFI) funded workshop series, “Incorporating Ecosystem Services to Improve Urban Planning and Policy.” University of New Hampshire. Durham, NH (October 17-19, 2012). Organizer and Participant.

“Complexity and Environmental Conflict: Agent-Based Modeling For Understanding and Resolution. 2013 System Dynamics Winter Camp. Austin, TX (January 4-5, 2012).

“Impacts of Ecosystem Service Accounting on Environmental Planning and Policy.” Incorporating Ecosystem Services to Improve Urban Planning and Policy Workshop 1: Factors controlling scale and types of improvements possible. University of New Hampshire, Durham, NH (October 17-19, 2012). Sponsored by National Academies’ Keck Futures Initiative.

“Decision-making across multiple sectors for restoring aquatic habitat and benefits.” EPA-Duke Urban Sustainability Workshop. Research Triangle Park, NC (October 25, 2012)

“Academic Publishing 101: From Idea to Article...and Beyond.” MIT Department of Urban Studies and Planning, Environmental Planning and Policy (EPP) Seminar. Cambridge, MA (April 30, 2012).

“Mississippi Coastal Improvements Program (MsCIP) Ecosystem Restoration Analysis,” Institute for Water Resources, U.S. Army Corps of Engineers. Alexandria, VA (March 27, 2012)

“Dangerous Intersections on the Road to Ecosystem Markets.” Ecosystem Processes Branch Seminar, U.S. Army Corps of Engineers Engineering Research and Development Center, Construction Engineering Research Laboratory (ERDC-CERL). Champaign, IL (February 29th, 2012).

“Balancing Risk in Ecosystem Markets.” University of Illinois Program in Environmental and Resource Economics (pERE) Seminar. Urbana, IL (February 28, 2012).

“Risk and Ecosystem Service Markets.” MIT Department of Urban Studies and Planning. Cambridge, MA (February 17, 2012).

“Environmental Conflict, Ecosystem Markets, and Changing Urban Landscapes,” Institute for Water Resources, U.S. Army Corps of Engineers. Alexandria, VA (January 18, 2012)

“Management and Trading of Multiple Ecosystem Services,” Climate Change and Security Research Group. KlimaCampus, University of Hamburg. Hamburg, Germany (July 14, 2011).

“Growth, Development, and Demographic Change in the Abermarle-Pamlico Basin.” Future Scenarios Workshop of the Albemarle-Pamlico Basin (USGS-EPA Sponsored Meeting), Durham, NC (March 24, 2011).

“Dangerous Intersections on the Road to Ecosystem Markets” MIT Sloan School of Management, Sustainability Group. Cambridge, MA (January 28t, 2011)

“Toward a Theory of Spatially Dynamic Reference Modes and System Archetypes.” 2011 System Dynamics Winter Camp (with Nikhil Kaza). Austin, TX (January 7-8, 2011).

Participant in “Contracting for Ecosystem Service Markets,” colloquium, Property and Environment Research Center. Chapel Hill, NC (November 7–10, 2010).

“Forces Promoting U.S. Wetland and Stream Banking,” Property and Environment Research Center. Bozeman, MT (July 26, 2010).

Invited Panelist for Symposium on “Incentivizing Biodiversity Conservation”, Duke University Nicholas School of the Environment and Fuqua Business School (March 19, 2010)

“Credit Stacking and Risk in Operating Ecosystem Service Markets,” Invited Speaker to Duke Ecosystem Services Working Group (February 2, 2010)

“Landscape Operation of the North Carolina Ecosystem Enhancement Program,” North Carolina Environmental Restoration Association (NCERA). Raleigh, NC (November 12, 2008).

Participant in “Property Rights and the Environment,” colloquium, Property and Environment Research Center (PERC) and The Liberty Fund. Big Sky, MT (September 25–28, 2008).

Participant in “Journal of Planning Education and Research Writing Workshop,” sponsored by the American Collegiate Schools of Planning (Richmond, VA (August 8-9, 2008).

“Modeling the Wetland Mitigation Process and its Dynamic Effects on No Net Loss Policy,” University of North Carolina at Chapel Hill, Program in Ecology Seminar Series. Chapel Hill, NC (April 23, 2008).

“A Dynamic View of No Net Loss: Modeling the Wetland Mitigation Process,” Duke University Program in Ecology Seminar Series. Durham, NC (February 1, 2008).

“Redistribution Effects of Wetland Mitigation over Space and Time,” invited presentation at the UIUC Program in Environmental and Resource Economics Workshop (pERE), Champaign, IL (March 27, 2007).

“Redistribution Effects of Wetland Mitigation Over Space and Time,” Regulatory Branch, Wetlands Division, Environmental Protection Agency, Washington, D.C. (October 19, 2006).

“Wetland Mitigation and its Effects on People.” Associate Colleges of the Chicago Area, 2006 Biology Division Seminar Series, Benedictine University, Lisle, IL (September 26, 2006).

Presentation of Confluence I workshop models to USGS Upper Midwest Environmental Science Center (UMESC) Ecologists, LaCrosse, WI (April 13-14, 2006).

“Replacing Nature: A Spatial Analysis and Dynamic View of Wetland Mitigation and Land Use Change.” Lewis University Department of Biology Invited Speaker, Romeoville, IL (April 28, 2006).

“Redistribution Effects of Wetland Mitigation over Space and Time,” presentation to Illinois Chapter of The Nature Conservancy, Peoria, IL (October 17, 2005).

Modeling Facilitator. Confluence I: Seeking Common Ground for Floodplain Functionality and Development. A Workshop for River Stakeholders to Collaboratively Capture Information and Challenge Assumptions. Organized by: The Nature Conservancy. National Mississippi River Museum and Aquarium, Dubuque, Iowa. (August 16-18, 2005).

GRANTS

- 2013: “The Restoration Economy.” The Conservation Fund (PI) \$10,000
- 2013: “A National Survey of Jobs Associated with The Restoration Economy.” Blue Moon Fund (PI) \$57,500
- 2013: “Understanding and Exploring the Restoration Economy.” Walton Family Fund (PI) \$30,000.
- 2012 – 2014: “Ecosystem Services as an Alternative Foundation for Development, Urban Planning, and New Water Infrastructure in the U.S.” National Academies Keck Futures Initiative (NAKFI). (Co-PI) \$23,294.
- 2010 – 2012: “Decision Support System Frameworks for Eastern North Carolina.” DoD Southeast Regional Partnership for Planning and Sustainability Program (SERPAS). (Co-PI) \$50,023.
- 2010 – 2012: “Hierarchical Analysis of Socio-Ecological Interactions in the Charlotte Metropolitan Region: Can Urbanization, Forest and Working Lands Coexist?” NSF (ULTRA-Ex) Proposal #0949170 (Co-PI). \$13,966.
- 2010 – 2012: “Reconciling Human and Natural Systems for the Equitable Provision of Ecosystem Services in the Triangle of North Carolina.” NSF (Ultra-Ex) Proposal #0948181 (Senior personnel). \$92,903.
- 2010: “Urban Growth and Environmental Markets to Achieve Pollution Neutrality.” UNC Junior Faculty Development Grant. (PI). \$7,500
- 2010 – Consulting for State of North Carolina Sea Level Rise Risk Management Study, Land Use Impact Assessment Team (<http://www.ncsealevelrise.com/>)
- 2008 – 2010: “Academic Workshop Follow-up: Research to Promote a Sustainable Southeast.” DoD Southeast Regional Partnership for Planning and Sustainability Program (SERPAS). (Co-PI). \$137,089.
- 2009 – 2010: “Academic Workshop Follow-up: Research to Promote a Sustainable Southeast.” DoD Southeast Regional Partnership for Planning and Sustainability Program (SERPAS). (Co-PI). \$25,240.
- 2009 – 2011 “Does Environmental Restoration increase Land Values and Tax Base?: Wetlands as a New Type of Infrastructure Amenity.” UNC University Research Council Grant (PI). \$5,000.
- 2009 – 2009 GlaxoSmithKline Faculty Fellowship. Institute for Emerging Issues, NC State University

\$15,000.

- 2008 – Consulting for Project Modeling Smart Growth Policy in Canada (with Murtaza Haider, Ted Rogers School of Management, Ryerson University)
- 2008 – Assessment of North Carolina Ecosystem Enhancement Program. UNC Institute of the Environment, Center of Landscape Change and Health. (PI) \$7,000.
- 2008 – Departmental Funding (May-August) – Student Assistant to re-construct PLAN 745: Development Impact Assessment. (PI) \$2,000.
- 2007 – Renaissance Computing Institute (RENCI). Urban Land Use Modeling Feasibility Study for North Carolina. (PI) \$7,200.

TEACHING ACTIVITIES

Courses Taught (All syllabi available at: <http://todd.bendor.org/teaching>)

- PLAN 055: Freshman Seminar – “Sustainable Cities”. Fall 2008-2011, 2013
- PLAN 641: Ecology and Land Use Planning. Fall 2010, 2012, 2013
- PLAN 721: Advanced Planning Methods. Spring 2008-11, 2013
- PLAN 745: Development Impact Assessment. Spring 2008-2011, 2012
- PLAN 799(2): Planning Seminar: Urban Modeling Workshop. Spring 2008
- Independent studies on Green Building, Urban Growth Modeling and Water Quality
- UP 116: Analytical Planning Research Methods (University of Illinois at Urbana-Champaign). Spring 2006

MCRP Thesis Advisees

2013: Tania Jordanova – “Space/Time Estimation of Fecal Coliform in North Carolina using Land Use Regression to Evaluate the Effectiveness of Stormwater Management Policies”

Daniel Widis – “Improving the Mississippi Coastal Improvement Program’s Spatial Decision Support System: A literature review of GIS-based wetland identification and prioritization models” (In review as peer reviewed article)

2011: Jeffrey Rissman – “Characterizing the Air Quality and Demographic Impacts of Aircraft Emissions at the Hartsfield-Jackson Atlanta International Airport” (Published as two peer reviewed journal articles). **Received UNC City and Regional Planning Best Master’s Project Award –published in short form in The Carolina Planning Journal and as two peer reviewed articles*

Kathleen Oppenheimer – “Oh the Huge Manatee! Biofouling Poses Sticky Problems for Manatees that Require Attention Under the Federal Endangered Species Act” (Published as law review article)

Dylan Sandler – “Assessing the Disaster Recovery Planning Capacity of the State of North Carolina”

2010: Lyle Leitelt – “Developing a Solar Energy Potential Map for Chapel Hill, NC” (Published as Planning Advisory Service Memo)

Katherine Hebert – “Keeping it Green: A Study of open Space Conservation Efforts in the Triangle”

Aaron Bland – “Review of University Policies for Sustainability at UNC-Chapel Hill”

Megan Culler – “Recreation, Tourism Development, and Watershed Protection in the Dan River Basin”

2009: Hannah Berg – “Retrofitting Solutions for Urban Stormwater Runoff: A case study of the Jordan Nutrient Strategy” (Published as peer reviewed article)

Nora Lenahan – “Evaluation of Studies Related to Urban Growth and Land Use Models to Incorporate into the Development of a Sustainable Eastern North Carolina” (Published as peer reviewed article)

Chandler Van Schaack - “Can Town and Country Both be Green? A Comparative Study of Green Building Policies and Regulations in Rural Versus Urban Counties in North Carolina.” (Published as peer reviewed article)

Audrey Stewart – “Examining North Carolina’s Environmental Enhancement Program from the

Perspectives of Land Use Planning and Social Equity” (Published as peer reviewed article)

2008: Zoe Hamstead, MCRP - “Water Quality Trading in the Neuse River Basin: A Case Study of the Neuse River Compliance Association” (Published as peer reviewed article)

PhD Committees

- Beverly Wilson (2007 – 2009; Now at Uillinois at Urbana-Champaign), Tracy Hadden Loh (2007 – 2013; Now at Rails to Trails Conservancy), Giyoung Cho (2008 – 2011), Tabitha Combs (2008 – 2013), Eun Joo (2008 – Current), Danielle Spurlock (2009 – Current; Now at UNC-Chapel Hill), Joshu Shih (2011-2013), Monica Dorning (UNC-Charlotte; 2012-Current), Brian Miles (2011-Current), Kevin Park (2011-Current), Mary Donegan (2014-Current), Chaosu Li (2013-Current)

PROFESSIONAL SERVICE

- Member, Scientific Review Committee, National Socio-Environmental Synthesis Center (SESYNC) (2013-Present)
- Faculty Advisor, Students for the New Urbanism/Carolina Urbanists, UNC Student Group (2012-Present)
- Faculty Advisor, Epsilon Eta, Co-Ed Environmental Honors Fraternity, UNC Alpha Chapter (2009-2010)
- Member, Advisory Board, Worcester Polytechnic Institute System Dynamics Major (2008-2011)
- Advisor for State of North Carolina Sea Level Rise Risk Management Study, Land Use Impact Assessment Team (<http://www.ncsealevelrise.com/>)
- Reviewer for many journals, including (but not limited to): *Journal of the American Planning Association*, *Luxembourg FNR (NSF Grant-making equivalent)*, *Portuguese Foundation for Science and Technology (FCT; Portuguese Research Council)*, *Diversity and Distributions*, *Journal of Planning Education and Research*, *Environmental Management*, *Journal of Environmental Management*, *Ecological Modeling*, *Ecological Economics*, *Biological Conservation*, *Environmental Management Review*, *System Dynamics Review*, *Ecological Restoration*, *Ecological Applications*, *Ecological Engineering*, *Landscape Ecology*, *Journal of Environmental Planning and Management* and *Ecology*, and others.
- Facilitator at 2009 Emerging Issues Forum, N.C. State University Institute for Emerging Issues
- Community Facilitator for Champaign County “big.small.all” visioning and planning project, 2006-2007
- Facilitator for UIUC Graduate College Workshop (2007), “Three Magic Letters: Getting to Ph.D.: A Symposium for Graduate Faculty, Students, and Alumni.
- Professional memberships: *International System Dynamics Society*, *American Planning Association*