
Profile

Whenever possible, submit your application prior to the scheduled meeting of the affected advisory board so that they can consider all applications prior to making a recommendation to Council.

Public Records Statement

I acknowledge that all information submitted in this application becomes a public record and will be searchable online. The Town is not able to remove information from the public record once it has been posted.

I Agree

traveliyer@gmail.com

Email Address

P

First Name

Middle
Initial

Doraiswamy

Last Name

3837 Sweeten Creek Road

Street Address

Suite or Apt

Chapel Hill

City

NC

State

27514

Postal Code

Primary Phone

Alternate Phone

Residency within the Town limits is required for membership on most Council advisory bodies. Memberships of some committees and task forces may be composed of up to forty percent of non-Town residents.

What district do you live in? *

Chapel Hill Town limits (Purple)

[Please consult the town maps HERE if you are unsure](#)

If you are a Chapel Hill Resident, How long have you lived here?

Greater than 10 years

The Council encourages you to visit a meeting of the group that you are interested in serving on. Please choose no more than two groups from the list below to which you would like to apply.

Which Boards would you like to apply for?

Orange Water and Sewer Authority Board of Directors: Eligible

Question applies to Parks, Greenways and Recreation Commission

Select a Seat Category for the Parks, Greenways and Recreation Commission

*

Chapel Hill Resident

Which Board is your First Choice? *

Orange Water and Sewer Authority (OWASA) Board of Directors

How did you find out about this opportunity? (select all that apply)

Advisory Board or Council member

If you chose "Other" from the advertising opportunity listed above, please specify:

Interests & Experiences

What perspective(s) do you bring to the board(s), commission(s), committee(s) or task force(s) to which you are applying?

I have lived in Chapel Hill for over 25 years. I am a well known professor who has served as an advisor to leading businesses, government agencies and non-profits. I have given expert testimony in the US Senate. I have served on the board of directors of a large public company and am very familiar with good governance principles. My academic research has given me expertise on how the environment impacts a community. This is the perspective I would bring to the OWASA Board.

Please provide a brief summary of any other relevant qualifications (skills, abilities, interests and/or experience) you bring.

Two decades of leadership and governance expertise in a range of settings. .Please see the para above.

You may upload a supporting document (e.g., CV or resume). **Please be advised that any information submitted becomes a public record and may be searchable online.**

Demographics

The Town Council seeks to attract persons from diverse backgrounds and believes that childcare and transportation is a potential barrier for qualified and interested applicants. See the [Childcare and Transportation Assistance pilot](#) for further details. In order to consider this application and provide some balance to the various boards, this personal information is required:

Ethnicity *

Asian or Pacific Islander

Gender *

Male

If other, please describe:

Please select your age from the following list. *

over 55

Occupation

Are you a caregiver for or identify with a disability?

Yes No

Have you participated in the Peoples Academy?

Yes No

Are you a Town of Chapel Hill employee?

Yes No

Ethics Statement

ETHICS GUIDELINES FOR TOWN ADVISORY BOARDS AND COMMISSIONS

Members of advisory boards and commissions shall not vote on any matter in which they have a conflict of interest or an interest which reasonably might appear to be in conflict with the concept of fairness in dealing with public business. A conflict of interest or a potential conflict occurs if the outcome of the matter being considered is reasonably likely to have a direct, substantial, and readily identifiable financial impact on the member. In addition, members of the Historic District Commission and Board of Adjustment, when these boards are hearing cases, serve as quasi-judicial bodies. Pursuant to General Statute 160D-109(d), members of these boards “shall not participate in or vote on any quasi-judicial matter in a manner that would violate affected persons’ constitutional rights to an impartial decision maker. Impermissible violations of due process include, but are not limited to, a member having a fixed opinion prior to hearing the matter that is not susceptible to change, undisclosed ex parte communications, a close familial, business, or other associational relationship with an affected person, or a financial interest in the outcome of the matter.” Any member who violates these Ethics Guidelines may be subject to removal from the board or commission. If the advisory board or commission member believes he/she has a conflict of interest then that member shall recuse himself/herself from voting on the matter. In cases where the individual member or the advisory board or commission establishes a conflict of interest, then the advisory board or commission member shall remove themselves from the voting area. Any advisory board or commission member may seek the counsel of the Town Attorney on questions regarding the interpretation of these ethics guidelines or other conflict of interest matters. The interpretation may include a recommendation on whether or not the advisory board or commission member should excuse himself/herself from voting. The advisory board or commission member may request the Town Attorney respond in writing.

I Agree *

Applications will be kept on file from July 1st to June 30th of the same fiscal year. Please reapply each fiscal year if you are still interested in serving on an Advisory Board, Commission, Committee or Task Force and have not yet been appointed.

Profile

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I Agree

tbendor@gmail.com

Email Address

Todd

First Name

Middle
Initial

Bendor

Last Name

904 Coker Dr.

Street Address

Suite or Apt

Chapel Hill

City

NC

State

27517

Postal Code

Mobile: (217) 417-6355

Primary Phone

Home: (919) 962-4760

Alternate Phone

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Orange Water and Sewer Authority Board of Directors: Eligible

Which Board is your First Choice? *

Orange Water and Sewer Authority (OWASA) Board of Directors

How did you find out about this opportunity? (select all that apply)

Advisory Board or Council member

If you chose "Other" from the advertising opportunity listed above, please specify:

Interests & Experiences

What perspective(s) do you bring to the board(s), commission(s), committee(s) or task force(s) to which you are applying?

I am a current board member applying for re-appointment. have been a UNC professor for 17 years, and my research and teaching focus on environmental planning, specifically on ecological restoration, environmental markets, urban flooding, and urban climate adaptation. I have also a Chapel Hill/Carrboro resident since 2007. When I moved here, this region was in the midst of the 2nd drought of record (behind 2001), which definitely gave me an appreciation for how the infrastructure is managed

Please provide a brief summary of any other relevant qualifications (skills, abilities, interests and/or experience) you bring.

OWASA: I have been on the OWASA board for three years, one of which as vice chair. have worked with the OWASA sustainability and planning staff (Mary Tiger, Pat Davis, Ed Holland) for many years, who have taken part in a course I teach on impact assessment. I have a strong interest in water infrastructure and have significant experience with environmental and infrastructure planning.

[bendor_cv_3-7-24.pdf](#)

You may upload a supporting document (e.g., CV or resume). **Please be advised that any information submitted becomes a public record and may be searchable online.**

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Caucasian/Non-Hispanic

Gender *

Male

If other, please describe:

Please select your age from the following list. *

35-54

UNC Professor _____

Occupation

Are you a caregiver for or identify with a disability?

Yes No

Have you participated in the Peoples Academy?

Yes No

Are you a Town of Chapel Hill employee?

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Todd K. BenDor

CONTACT INFORMATION

Department of City and Regional Planning
University of North Carolina at Chapel Hill
New East Building, CB #3140
Chapel Hill, NC 27599-3140
Phone: 919.962.4760 | Fax: 919.962.5206

Odum Institute for Research in Social Science
University of North Carolina at Chapel Hill
Davis Library (Suite 231B), Campus Box #3355
Chapel Hill, NC 27599-3140
Phone: 919.843.5990

Professional Website: <http://todd.bendor.org>

Departmental Website: <https://planning.unc.edu/faculty/bendor/>

EDUCATION

Ph.D. in Regional Planning

May 2007

University of Illinois at Urbana-Champaign (UIUC), Champaign, IL

- Dissertation topic: *Redistribution Effects of Wetland Mitigation over Space and Time.*
- Committee: Varkki Pallathucheril (Chair), Bruce Hannon, Nick Brozovic, and David Kovacic.
- Earned Center for Teaching Excellence 'Graduate Teaching Certificate.'

2004 Santa Fe Institute Complex Systems Summer School

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 (WSU), 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 (WPI), Worcester, MA

- Senior thesis: *The System Dynamics of Automobile Fuel Economy.* Advisor: Jim Lyneis.
- Junior thesis: *Risk Amplification of GMOs in Europe* (Completed in Basel/Zurich, Switzerland). Advisor: Wesley Jamison.

PROFESSIONAL EXPERIENCE

Assistant (2007-2013)/Associate (2013-2018)/ Professor (2018-2020)/ Distinguished Professor of Sustainable Community Design (2020- Present)

2007 - Present

Department of City and Regional Planning, University of North Carolina at Chapel Hill

- Director, Odum Institute for Research in Social Science (2018-Present)
- Faculty Member, UNC Environment, Ecology, and Energy Program

Honorary Visiting Professor

Fall 2016

Center for Advanced Spatial Analysis, University College-London, London, UK

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

HONORS

- Participant, Academic Leadership Program, UNC Institute for Arts and Humanities (2020-2021)
 - UNC Center for Urban and Regional Studies (CURS) Scholar in Residence (Fall 2017)
 - Outstanding Summer Course Award, Huazhong Agricultural University, Wuhan, China (Summer 2014)
 - Frederick J. Clarke Scholar – Institute of Water Resources, U.S. Army Corps of Engineers (Spring 2012)
 - Lone Mountain Fellow – Property and Environment Research Center (July, 2010)
 - Sigma Xi National Scientific Research Society (Full Member, Elected 2009)
 - GlaxoSmithKline Faculty Fellow – Institute for Emerging Issues, N.C. State University (2009)
 - 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 (2001)
 - Member of Phi Theta Kappa, international two-year honor society (1997)
-

PUBLICATIONS (* DENOTES STUDENT AUTHOR)

Books

BenDor, Todd K. and Jürgen Scheffran. 2018. *Agent-Based Modeling of Environmental Conflict and Cooperation*. Boca Raton, FL: CRC Press.

Refereed Articles

82. O'Donnell, Kiera. Kiera L. O'Donnell, Emily S. Bernhardt, Xi Yang, Ryan E. Emanuel, Marcelo Ardón, Manuel T. Lerda, Alex K. Manda, Anna E. Braswell, Todd K. BenDor, Eric C. Edwards, Elizabeth Frankenberg, Ashley M. Helton, John S. Kominoski, Amy E. Lesen, Lindsay Naylor, Greg Noe, Kate L. Tully, Elliott White, and Justin P. Wright. 2024. Saltwater Intrusion and Sea Level Rise threatens U.S. rural coastal landscapes and communities. *Anthropocene*. 45: 100427
81. Vegh, Tibor*, Todd K. BenDor, and Jonas J. Monast. 2023. Opportunities, tradeoffs, and caveats for private sector involvement in US floodplain buyout programs. *Mitigation and Adaptation Strategies for Global Change* 28: 49.
80. Holloway, Pierce* and Todd K. BenDor. Residential property value impacts of floodplain buyouts in Charlotte, North Carolina. *Journal of Environmental Management* 347: 119165.
79. Galvin, Emily* and Todd K. BenDor. 2023. The economic impacts of green stormwater infrastructure: an evaluation of novel stormwater management policies in Washington, D.C. *Land Use Policy* 134: 106915.
78. BenDor, Todd K., J Jounghwon Kwon*, and T. William Lester. 2023. Assessing the size and growth of the US wetland and stream compensatory mitigation industry. *PLoS ONE* 18(9): e0285139.
77. Hino, Miyuki, Todd K. BenDor, Jordan Branham*, Nikhil Kaza, Antonia Sebastian, and Shane Sweeney*. 2023. Growing safely or building risk? Floodplain management in North Carolina. *Journal of the American Planning Association* (In Press; Published online: 07 Feb 2023).
76. Branham, Jordan*, David Salvesen, Nikhil Kaza, and Todd K. BenDor. 2022. A wrench in the machine: How subsidy removal alters the politics of coastal development. *Journal of the American Planning Association* (In Press; Published online: 18 Nov 2022).
75. Branham, Jordan*, Nikhil Kaza, Todd K. BenDor, David Salvesen, and Kyle Onda*. 2022. Removing federal subsidies from high-hazard coastal areas slows development. *Frontiers in Ecology and the Environment* 20(9): 500-506.
74. Curran-Groome, William*, Miyuki Hino, Todd K. BenDor, and David Salvesen. 2022. Complexities and Costs of Floodplain Buyout Implementation. *Land Use Policy* 18: 106128.
73. Ungaro, Matthew *, Todd K. BenDor, J. Adam Riggsbee. 2022. Prioritizing streams: the impacts of in-kind mitigation rules on an ecosystem offset market. *Environmental Science and Policy* 132: 131-141.
72. White, Corey T.*, Helena Mitsova, Todd K. BenDor, Kevin Foy, Okan Pala, Jelena Vukomanovic, and Ross K. Meentemeyer. 2021. Coupling Spatially Explicit Surveys with Fuzzy Cognitive Maps to Understand the Effects of Scale on Stormwater Management. *Land* 10(11): 1114.
71. BenDor, Todd K., Jordan Branham*, Andrew Whittemore, Evangeline Linkous, and Dylan Timmerman*. 2021. A national inventory and analysis of US transfer of development rights programs. *Journal of Environmental Planning and Management* 65 (12): 2276-2296.

70. Curran-Groome, William*, Hallee Haygood*, Miyuki Hino, Todd K. BenDor, and David Salvesen. 2021. Assessing the Full Costs of Floodplain Buyouts. *Climatic Change* 168: 3.
69. Hedelin, B., Gray S., Woehlke S., **BenDor T.K.**, Singer A., Jordan R., Giabbanelli P., Glynn P., Jenni K., Jetter A., Kolagani N., Laursen B., Leong K., Schmitt Olabisi L., Sterling E., and Zellner M. 2021. Are we there soon? What's left to do before Participatory modeling can fully support real-world planning processes. *Environmental Modeling and Software* 143: 105073.
68. Schwaller, Nora* and Todd K. BenDor. 2021. Differential residential perspectives on in situ protection and retreat as strategies for climate adaptation. *Climatic Change* 167: 42.
67. Whittemore, Andrew H. and Todd K. BenDor. 2021. Rhetorical Framing in Planning: An Empirical Investigation of How Planners Discuss Density. *Journal of Planning Education and Research* 41(1): 48-61.
66. BenDor, Todd K., Branham, Jordan*, Dylan Timmerman*, and Becca Madsen. 2021. Predicting the existence and performance of US Water quality trading programs. *Water* 13: 185.
65. Branham, Jordan*, Kyle Onda*, Nikhil Kaza, Todd K. BenDor, and David Salvesen. 2021. How does the removal of federal subsidies affect investment in coastal protection infrastructure? *Land Use Policy* 102: 105245.
64. Peterson*, Kelsey, Emily Apadula*, David Salvesen, Miyuki Hino, Rebecca Kihslinger, and Todd K. BenDor. 2020. A review of funding mechanisms for US floodplain buyouts. *Sustainability* 12(23): 10112.
63. Schwaller, Nora Louise*, Sophie Kelmenson*, Danielle Spurlock, Todd K. BenDor. 2020. From abstract futures to concrete experiences: How does political ideology interact with threat perception to affect climate adaptation decisions? *Environmental Science and Policy* 112: 440-452.
62. Onda, Kyle*, Jordan Branham*, Todd K. BenDor, Nikhil Kaza, David Salvesen. 2020. Does removal of federal subsidies discourage development? An evaluation of the US Coastal Barrier Resources Act. *PLoS ONE* 15(6): e0233888.
61. BenDor, Todd K., David Salvesen, Christian Kamrath*, and Brooke Ganser*. 2020. Floodplain buyouts and municipal finance. *Natural Hazards Review* 21(3): 04020020.
60. Whittemore, Andrew H. and Todd K. BenDor. 2019. Opposition to housing development in a suburban US County: Characteristics, origins, and consequences. *Land Use Policy* 88: 104158.
59. Frerichs, Leah, Natalie Smith, Kristen Hassmiller Lich, Todd K. BenDor, Kelly R. Evenson. 2019. A scoping review of simulation modeling in built environment and physical activity research: current status, gaps, and future directions for improving translation. *Health and Place* 57:122-130.
58. Tully K, Gedan K, Strong A, Bernhardt E, **BenDor T.K.**, Mitchell M, Kominoski J, Jordan T, Neubauer S, Weston N. 2019. The invisible flood: the chemistry, ecology, and consequences of saltwater intrusion. *Bioscience* 69(5): 368-378.
57. Shoemaker, Douglas A., Todd K. BenDor, and Ross K. Meentemeyer. 2019. Anticipating trade-offs between urban patterns and ecosystem service production: Scenario analyses of sprawl alternatives for a rapidly urbanizing region. *Computers, Environment, and Urban Systems* 74: 114-125
56. Sterling, E.J., Zellner, M., Jenni, K.E., Leong, K., Glynn, P.D., **BenDor, T.K.**, Bommel, P., Hubacek, K., Jetter, A.J., Jordan, R., Schmitt Olabisi, L., Paolisso, M. and Gray, S., 2019. Try, try again: Lessons learned from success and failure in participatory modeling. *Elementa science of the Anthropocene* 7(1): 9.
55. Whittemore, Andrew H. and Todd K. BenDor. 2019. Reassessing NIMBY: The demographics, politics, and geography of opposition to high-density residential infill. *Journal of Urban Affairs* 41(4): 423-442.
54. Whittemore, Andrew H. and Todd K. BenDor. 2018. Exploring the Acceptability of Densification: How Positive Framing and Source Credibility Can Change Attitudes. *Urban Affairs Review* 55(5): 1339-1369.
53. Voinov, Alexey, Karen Jenni, Steven Gray, Nagesh Kolagani, Pierre D. Glynn, Pierre Bommel, Christina Prell, Moira Zellner, Eleanor Sterling, Michael Paolisso, Laura Schmitt Olabisi, Philippe J. Giabbanelli, Zhanli Sun, Christophe Le Page, Sondoss Elawah, **Todd K. BenDor**, Klaus Hubacek, Bethany K. Laursen, Alison Singer, Jessica Brunacini, Laura Young. 2018. Tools and methods in participatory modeling: selecting the right tool for the job. *Environmental Modelling and Software* 109: 232-255.
52. Jordan, Rebecca, Steven Gray, Moira Zellner, Pierre D. Glynn, Alexey Voinov, Beatrice Hedelin, Eleanor J. Sterling, Kirsten Leong, Laura Schmitt Olabisi, Klaus Hubacek, Pierre Bommel, **Todd K. BenDor**, Antonie J. Jetter, Bethany Laursen, Alison Singer, Philippe J. Giabbanelli, Nagesh Kolagani, Laura Basco Carrera, Karen Jenni, and Christina Prell. 2018. Twelve Questions for the Participatory Modeling Community. *Earth's Future* 6(8): 1046-1057.
51. Bhattachan, Abinash, Ryan Emmanuel, Todd K. BenDor, and Marcelo Ardon-Sayao. 2018. Evaluating the effects of land-use change and future climate change on vulnerability of coastal landscapes to saltwater intrusion. *Elementa: Science of the Anthropocene* 6: 62.
50. Woodruff, Sierra, Todd K. BenDor, and Aaron Strong. 2018. Fighting the inevitable: infrastructure investment and coastal community adaptation to sea level rise. *System Dynamics Review* 34(1-2): 48-77.

49. BenDor, Todd K., Vivek Shandas, Brian Miles, Kenneth Belt, and Lydia Olander. 2018. Ecosystem Services and U.S. Stormwater Management: An Agenda for Improving Urban Stormwater Decisions. *Environmental Science and Policy* 88: 92-103.
48. Gray, Steven, Alexey Voinov, Michael Paolisso, Rebecca Jordan, Todd K. BenDor, Pierre Bommel, Pierre Glynn, Beatrice Hedelin, Klaus Hubacek, Josh Introne, Nagesh Kolagani, Bethany Laursen, Christina Prell, Laura Schmitt-Olabisi, Alison Singer, Eleanor Sterling, and Moira Zellner. 2018. Purpose, Processes, Partnerships, and Products: 4Ps to advance Participatory Socio-Environmental Modeling. *Ecological Applications* 28(1): 46-61.
47. Whittemore, Andrew H., and Todd K. BenDor. 2018. Talking about Density: An Empirical Investigation of Framing. *Land Use Policy* 72: 181-91.
46. Vitro, Kristen A.*, Miranda E. Welsh*, Todd K. BenDor, Aaron Moody. 2017. Ecological theory explains why diverse island economies are more stable. *Complex Systems* 26(30): 135-156.
45. Vitro, Kristen A.*, Todd K. BenDor, and J. Adam Riggsbee. 2017. Pre-listing conservation of candidate species under the endangered species act: An evaluation of prevalence, accessibility, and market-based conservation efforts. *Environmental Science and Policy* 74: 68-74.
44. Galik, Christopher, Todd K. BenDor, Julie DeMeester and David Wolfe. 2017. Improving Habitat Exchange Planning Through Theory, Application, and Lessons from Other Fields. *Environmental Science and Policy* 73: 45-51.
43. Vitro, Kristen A.*, Todd K. BenDor, Tania V. Jordanova*, Brian Miles*. 2017. A geospatial analysis of land use and stormwater management on fecal coliform contamination in North Carolina streams. *Science of the Total Environment* 603-604: 709-727.
42. BenDor, Todd K., Danielle Spurlock, Sierra Woodruff*, and Lydia Olander. 2017. A research agenda for ecosystem services in American environmental and land use planning. *Cities* 60 (Part A): 260-271.
41. Woodruff, Sierra* and Todd K. BenDor. 2016. Ecosystem services in urban planning: Comparative paradigms and guidelines for high quality plans. *Landscape and Urban Planning* 152: 90-100.
40. Widis, Daniel C. *, Todd K. BenDor, and Michael Deegan. 2015. Prioritizing Wetland Restoration Sites: A Review and Application to a Large-Scale Coastal Restoration Program. *Ecological Restoration* 33(4): 358-377.
39. Woodruff, Sierra* and Todd K. BenDor. 2015. Is Information Enough? The Effects of Watershed Approaches and Planning on Targeting Ecosystem Restoration Sites. *Ecological Restoration* 33(4): 378-387.
38. BenDor, Todd K., T. William Lester, Avery Livengood*, Adam Davis, Logan Yonavjak*. 2015. Estimating the Size and Impact of the Ecological Restoration Economy. *PLoS ONE* 10(6): e0128339.
37. BenDor, Todd K., Avery Livengood*, T. William Lester, Adam Davis, and Logan Yonavjak*. 2015. Defining and Evaluating the Ecological Restoration Economy. *Restoration Ecology* 23(3): 209-219.
36. Berry, Marisa* and Todd K. BenDor. 2015. Integrating Sea Level Rise into Development Suitability Analysis. *Computers, Environment, and Urban Systems* 51: 13-24.
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* 19(3): 3.
34. Robertson, Morgan, Todd K. BenDor, Rebecca Lave, J. 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 K. 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 K. BenDor, H. Wong, and F. Binkowski. 2013. A plume-in-grid approach to characterize air quality impacts of aircraft emissions at the Hartsfield-Jackson Atlanta International Airport. *Atmospheric Chemistry and Physics* 13: 9285-9302.
29. Kaza, Nikhil 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 K. BenDor. 2012. A Comprehensive Solution to the Biofouling Problem for the Endangered Florida Manatee and other Species. *Environmental Law Review* 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., J. 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 J. 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 J. 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. Westervelt, James, Todd K. BenDor and Joseph Sexton. 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.
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- Hino, Miyuki, Todd K. BenDor, Nikhil Kaza, Antonia Sebastian, Jordan Branham, and Shane Sweeney. 2021. One Step Forward, Two Steps Back: Managing Floodplain Development in North Carolina (Invited). American Geophysical Union (AGU) Fall Meeting. (December 13-17, 2021). New Orleans, LA.
- BenDor, Todd K., William Curran-Groome*, Hallee Haygood*, Miyuki Hino, and David Salvesen. Evaluating the Total Costs of Floodplain Buyouts. Association of Collegiate Schools of Planning Annual Conference. (October 7, 2021). Parallel session presentation. [Virtual]
- Schwaller, Nora Louise *, Todd K. BenDor. Do Buyouts Mitigate Household Risk? Comparisons Between Buyouts and Post-Disaster Migration. Association of Collegiate Schools of Planning Annual Conference. (October 7, 2021). Parallel session presentation. [Virtual]
- Branham, Jordan*, Nikhil Kaza, Todd K. BenDor, David Salvesen, Kyle Onda*. Does Subsidy Removal Reduce Coastal Development?: Measuring the Effect of the U.S. Coastal Barrier Resources Act. Association of Collegiate Schools of Planning Annual Conference. (October 7, 2021). Parallel session presentation. [Virtual]
- Hino, Miyuki, Jordan Branham*, Todd K. BenDor, Nikhil Kaza, Antonia Sebastian, and Shane Sweeney*. Development Patterns and the Production of Flood Risk in North Carolina. Association of Collegiate Schools of Planning Annual Conference. (October 7, 2021). Parallel session presentation. [Virtual]
- Hino, Miyuki, Mai Nguyen, Sarah Riley, and Todd K. BenDor. 2020. Where do buyout households go? Managed retreat and the geography of opportunity. Association for Public Policy Analysis and Management Fall Conference (November 11-13, 2020). Virtual parallel presentation.
- Hino, Miyuki, Todd K. BenDor, Jordan Branham, Nikhil Kaza, Antonia Sebastian, Shane Sweeney. 2020. One step forward, two steps back: managing floodplain development in North Carolina. Association of Collegiate Schools of Planning Annual Conference, Toronto, Canada. (November 4, 2020). Parallel session presentation. [Virtual]
- Hedelin B, Gray S, Jordan R, BenDor T.K., Glynn P, Kolagani N, , Schmitt Olabisi L, Singer A, Sterling E, Zellner M, Alkan-Olsson J, Laursen B,Stefan, Philippe, Karen, Antoine, Kirsten. Participatory Modelling for Planning and

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- Schwaller, Nora Louise, Todd K. BenDor. 2020. Differential Residential Perspectives on In-Situ Protection and Retreat for Climate Adaptation. Presented at the Natural Hazards Workshop, Boulder Colorado (online) (July 16, 2020). Parallel session presentation
- Hino, Miyuki, Todd K. BenDor, Jordan Branham*, Nikhil Kaza, Antonia Sebastian, and Shane Sweeney*. 2020. Measuring floodplain management parcel-by-parcel in North Carolina. Natural Hazards Research and Applications Workshop. July 12-15, 2020). Virtual parallel presentation.
- Haygood, Hallee *, Will Curran-Groome*, Todd K. BenDor, David Salvesen, and Miyuki Hino. 2020. Budgeting for Floodplain Buyouts. Ecological Restoration Business Association Policy Conference, Washington, D.C. (March 4-6, 2020). Poster Presentation.
- BenDor, Todd K., Jordan Branham*, and Dylan Timmerman*. Predicting the existence and performance of US Water quality trading programs. Associated Collegiate Schools of Planning (ACSP) Conference, Greenville, SC (October 24-27, 2019). Parallel session presentation.
- BenDor, Todd K., Jordan Branham*, and Dylan Timmerman*. Predicting the existence and performance of US Water quality trading programs. 8th World Conference on Ecological Restoration (SER), Cape Town, South Africa (Sept 24-28, 2019). Parallel session presentation.
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- Onda, Kyle*, Todd K. BenDor, Brooke Ganser*, Nikhil Kaza, Michele Plaugic*, Jordan Branham*, and David Salvesen. Does Removing Federal Subsidies Discourage Development? An Evaluation of the Impact of the U.S. Coastal Barrier Resources Act. Associated Collegiate Schools of Planning (ACSP) Conference, Buffalo, NY (October 25-28, 2018). Parallel session presentation.
- Branham, Jordan*, Michael Everhart*, Todd K. BenDor, Nikhil Kaza, and David Salvesen. Investigating the Impact of the US Coastal Barrier Resources Act on Shoreline Hardening. Associated Collegiate Schools of Planning (ACSP) Conference, Buffalo, NY (October 25-28, 2018). Parallel session presentation.
- Voinov, Alexey, Steven A. Gray, Todd K. BenDor. "Tools and Methods in Participatory Modeling." 9th International Congress on Environmental Modelling and Software, Fort Collins, CO (June 24-28 2018). Parallel session presentation.
- Young, Laura, Jessica D. Brunacini, Steven A. Gray, Alexey A. Voinov, and Todd K. BenDor. "Method Selection in Participatory Modeling: A Survey of Practitioners." 9th International Congress on Environmental Modelling and Software, Fort Collins, CO (June 24-28 2018). Parallel session presentation.
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- BenDor, Todd K., Jürgen Scheffran. "Viability theory and agent-based modeling: a new, synergistic approach to modeling environmental conflict." 9th International Congress on Environmental Modelling and Software, Fort Collins, CO (June 24-28 2018). Parallel session presentation.
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- BenDor, Todd K. and Kristen Vitro*. Landowner reactions to coastal saltwater intrusion: creating a typology for mapping future vulnerability. Associated Collegiate Schools of Planning (ACSP) Conference, Denver, CO (October 12-15, 2017). Parallel session presentation.
- BenDor, Todd K. 2017. Estimating the Size and Economic Impact of the Ecological Restoration Industry. VII World Conference on Ecological Restoration, Foz do Iguaçu, Brazil (August 27-Sept 1, 2017). Parallel presentation.
- BenDor, Todd K., Sierra Woodruff, Aaron Strong. 2017. Fighting the inevitable: systems thinking, infrastructure, and coastal community trajectories in the face of sea level rise. International System Dynamics Conference, Cambridge, MA (July 16-20, 2017). Poster presentation.
- Bhattachan, Abinash, Ryan Emmanuel, Todd K. BenDor, and Marcelo Ardon-Sayao. 2016. Re-plumbing the coast: Untangling the effects of climate change and water management on vulnerability of coastal landscapes to saltwater incursion. 2016 American Geophysical Union Fall meeting, San Francisco (December 12-16, 2016). Parallel session presentation

- BenDor, Todd K., Kristen Vitro*, Ryan Emmanuel, Marcelo Ardon-Sayao, Emily Bernhardt, and Justin Wright. 2015. Salinization of the coastal plain through saltwater intrusion - landscapes in transition along the leading edge of climate change. Associated Collegiate Schools of Planning (ACSP) Conference, Houston, TX (October 22-25, 2015). Parallel session presentation.
- BenDor, Todd K., Jürgen Scheffran, Nikhil Kaza. 2015. An Adaptive dynamic model of climate change and emissions trading. International System Dynamics Conference, Cambridge, MA (July 19-24, 2015). Parallel session presentation.
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- 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.
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- BenDor. Todd K. 2017. Analysis of Trail User Spending for the Rails to Trails Conservancy's Northeastern Trail Network. Rails to Trails Conservancy: Washington, D.C.
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- Non-Refereed Conference Presentations**
- BenDor, Todd K. Assessing the size and growth of the US wetland and stream compensatory mitigation industry. National Mitigation and Ecosystem Markets Conference. Jacksonville, FL (5/10/23). Keynote Speech.
- Salvesen, David, Todd K. BenDor, Christian Kamrath, and Brooke Ganser. Are Floodplain Buyouts a Smart Investment for Municipalities? National Adaptation Forum, Madison, WI (April 23 – 25, 2019). Parallel presentation in Organized session, "Floodplain Acquisitions: Maximizing Opportunities for Hazard Mitigation, Habitat Restoration, and Community Benefit."
- BenDor, Todd K. Advance Mitigation and Beyond: Addressing Uncertainty in Mitigation. Environmental Restoration Business Association (ERBA) Conference, Washington, DC. (March 5-7, 2019). Plenary presentation.
- BenDor, Todd K., Dylan Timmerman, and Sarah Wraight. Predicting the existence and performance of US Water quality trading programs. A Community on Ecosystem Services Conference (ACES), Washington, DC. (Dec 3-6, 2018). Parallel session presentation.
- Salvesen, David, Todd K. BenDor, Christian Kamrath, and Brooke Ganser. Are Floodplain Buyouts a Smart Investment for Municipalities? Carolinas Climate Resilience Conference. October 29-31, 2018. Columbia, SC. Parallel presentation.
- Salvesen, David, Todd K. BenDor, Christian Kamrath, and Brooke Ganser. Are Floodplain Buyouts a Smart Investment for Municipalities? Fall Floodplain Institute. North Carolina Association of Floodplain Managers. Asheville, NC. October 18-19, 2018.
- BenDor, Todd K. "Adaptation for restoration: evolving policies, business models, and markets." National Mitigation and Ecosystem Banking Conference, Louisville, KY (May 8-11, 2017). Parallel session presentation

- BenDor, Todd K., Ross Meentemeyer, Helena Mitasova, Kevin Foy, Emily Bernhardt. RCN: Smart Civic Engagement in Rapidly Urbanizing Regions, NSF Award #1737563. 2018 NSF Smart and Connected Communities PI Meeting, Kansas City, MO (March 26-27, 2018). Plenary presentation.
- BenDor, Todd K., Abinash Bhattachan, Ryan Emanuel, Ian Hamilton, Philip McDaniel. 2016. "Saltwater Intrusion Vulnerability and Coastal Drainage Infrastructure: Historic Evaluation of a Trojan Horse." 3rd Annual UNC Climate Change Symposium, Chapel Hill, NC (April 22, 2016). Plenary presentation.
- BenDor, Todd K. 2015. "Agent-Based Modeling of Environmental Conflict and Cooperation." System Dynamics Winter Camp, Albuquerque, NM (January 9-11, 2015). Plenary presentation.
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- BenDor, Todd K. and Sierra Woodruff. 2014. "Permanence of Biodiversity Offsets for Endangered Species Habitat: An Application to the Lesser Prairie Chicken." The Wildlife Society 2st Annual Conference, Pittsburgh, PA (October 25-30, 2014). Parallel session presentation
- BenDor, Todd K., Danielle Spurlock, and Lydia Olander. 2014. "Ecosystem services in American land use and environmental planning." 99th Ecological Society of America Conference, Sacramento, CA (April 10-16).
- BenDor, Todd K., T. William Lester, Avery Livengood, Adam Davis, and Logan Yonavjak. "What are the Economic Impacts of the Ecological Restoration Industry?" National Mitigation and Ecosystem Banking Conference, Denver, CO (May 7-9, 2014). Plenary presentation.
- 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). Parallel session presentation.
- 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. Parallel session presentation
- Robertson, Morgan, Todd K. BenDor, Rebecca Lave, J. 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 K. BenDor, Rebecca Lave, J. 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, and Todd K. 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.
- Meentemeyer, Ross K. Jean-Claude Thill, William Ribarsky, Chunhua Wang, Douglas A. Shoemaker, Vicki Bott, and Todd K. 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." National Mitigation and Ecosystem Banking Conference, Austin, TX (May 3-6, 2010). Parallel session presentation.
- Berke, Philip, Larry Band, Todd K. 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." 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 (WRRRI) 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." 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 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.
- Non-Refereed Workshops and Invited Presentations***
- "Restoration as an Industry." Consultative Meeting, Restoration Target 50 Studies on Land Restoration, G20 Global Land Initiative. Bonn, Germany. (October 26, 2023)
- "Promoting ecological restoration as an Industry" G20 Global Land Initiative, "Building Bridges for Land 7 Restoration Business and Finance; Realising a Land of Opportunities." Bonn, Germany (October 27, 2023)
- "Assessing the size and growth of the US wetland and stream compensatory mitigation industry." Natural Infrastructure Working Group, Theodore Roosevelt Conservation Partnership. [Virtual] (August 24, 2023)
- "Update on 2021 Restoration Economy Survey" Environmental Restoration Business Association (ERBA) Policy Conference. [Virtual] (October 13, 2021)
- "Flooding buyouts and managed retreat: fiscal impacts and financing" Moving Back from the Mid-Atlantic Coast: Economic Considerations." NOAA Mid-Atlantic Webinar Series. Panelist. [Virtual] (June 24, 2021)
- "The Future of Urban Sustainability (?)" Duke Conservation Society. Durham, NC. (February 26, 2021)
- "What's next for mitigation & environmental restoration?" Panel moderator. National Mitigation and Ecosystem Banking Conference [Virtual] (August 17-20, 2020)
- "Viability theory and agent-based modeling: a new, synergistic approach to modeling environmental conflict." Duke Network Analysis Center Seminar. Durham, NC. (February 17, 2020)
- "Environmental Markets, Restoration Economy, and Challenges of Valuing Natural Capital" Panel discussion (panelist). Environmental Markets and Finance Summit. Washington, D.C. (October 29-31, 2019)
- "Agricultural and Rural Areas and the Restoration Economy" Expert-led discussion (moderator and leader). Environmental Markets and Finance Summit. Washington, D.C. (October 29-31, 2019)
- "Introduction to Agent-Based Modeling." UNC Odum Institute for Research in the Social Sciences (IRSS). Led 1-day workshop. Chapel Hill, NC (November 8, 2019).
- "Introduction to System Dynamics Modeling." UNC Odum Institute for Research in the Social Sciences (IRSS). Led 1-day workshop. Chapel Hill, NC (September 6, 2019).
- "Academic Publishing 101." UNC Odum Institute for Research in the Social Sciences (IRSS). Led 1-day workshop. Chapel Hill, NC (August 30, 2019).
- "Transfer of development rights and water quality trading: A comparative assessment for creative, market-based environmental policies" Center for Urban and Regional Studies, Chapel Hill, NC (February 22, 2018).

“System Dynamics and Innovation in Market-Based Approaches to Environmental Protection.” Shanghai Academy of Agricultural Sciences, Shanghai, China (July 31, 2017).

“Ecology and Land Use Planning.” Huazhong Agricultural University. Led 4.5-day workshop for ~12 undergraduate and graduate students, and faculty. Wuhan, China (July 24-28, 2017).

“Academic Publishing 101: From Idea to Article...and Beyond.” Huazhong Agricultural University, Summer Colloquium Series, Wuhan, China (July 28, 2017).

“Reactions to Coastal Saltwater Intrusion: Creating a landowner typology for mapping vulnerability.” Huazhong Agricultural University, Summer Colloquium Series, Wuhan, China (July 28, 2017).

“Quantifying the restoration economy: evaluating the economic impact of ecological restoration in the united states.” Huazhong Agricultural University, Summer Colloquium Series, Wuhan, China (July 27, 2017).

“Reactions to Coastal Saltwater Intrusion: Creating a landowner typology for mapping vulnerability.” Socio-Environmental Synthesis Center (SESYNC) Workshop: The effects of sea-level rise and saltwater intrusion on wetland nutrient transport and vegetation dynamics in the North American Coastal Plain. Annapolis, MD (April 4, 2017)

“Determining the Economic and Employment Impacts of the Restoration Economy in the United States” World Resources Institute Expert Workshop: The Economics and Financing of Restoration Opportunities” Washington, D.C. (March 31, 2017)

“System Dynamics and Innovation in Market-Based Approaches to Environmental Protection.” U.S. Environmental Protection Agency, National Exposure Research Laboratory (NERL), Research Triangle Park, NC (March 28, 2017)

“The economic impacts of ecological restoration: ideas to guide better NC strategy.” North Carolina Coastal Federation’s “Sound Economic Development Summit, Raleigh, NC (March 22, 2017).

“Permanence of Biodiversity Offsets for Endangered Species Habitat: An Application to the Lesser Prairie Chicken.” U.S. Environmental Protection Agency, National Exposure Research Laboratory (NERL), Research Triangle Park, NC (March 21, 2017)

“Pollution-Neutral Urban Landscapes: Integrated Modeling and Policy Feedbacks.” Centre for Advanced Spatial Analysis (CASA), University College-London (August 1, 2016).

“System Dynamics and Agent Based Modeling.” Data Matters: Data Science Short Course Series, Chapel Hill, NC (June 20-24, 2016). Two-day short course as part of series organized by the National Consortium for Data Science (NCDS), the Renaissance Computing Institute (RENCI), and the Odum Institute for Research in Social Science).

“Agent-based modeling for environmental conflict resolution.” Pennsylvania State University, Demographic Research Institute Symposium. State College, PA (Tuesday, May 17, 2016)

NC Wetland Symposium. Organized by Duke Wetland Center. Panel Member on Wetland Restoration in NC, Durham, NC (March 4, 2016).

“Agent-Based Modeling of Environmental Conflict and Cooperation,” Presentation given to Socio-Environmental Synthesis Center (SESYNC) Theme: Participatory Modelling for Action Oriented Outcomes, Annapolis MD (February 23-26, 2016).

Moderator for “Economic Impacts of Ecological Restoration” Panel at UNC Clean Tech Summit, Chapel Hill, NC (February 18-19, 2016).

“Quantifying the restoration economy: evaluating the economic impact of ecological restoration in the United States.” Working group on NC Coastal Restoration as Economic Development, Chapel Hill, NC (August 28, 2015). Organized by NC Coastal Federation.

“System Dynamics and Agent Based Modeling.” Data Matters: Data Science Short Course Series, Chapel Hill, NC (June 25-26, 2015). Two-day short course as part of series organized by the National Consortium for Data Science (NCDS), the Renaissance Computing Institute (RENCI), and the Odum Institute for Research in Social Science).

Panel member: “Pathways by which research results are translated to outreach, policy, and management domains” NSF coastal SEES Primary Investigators meeting, Washington, DC (January 29-30, 2015).

“Integrated Rule Oriented Data System (iRODS).” SESYNC Model Integration Workshop, Annapolis, MD (January 22-23, 2015).

“Innovative Approaches to Environmental Protection.” “Food for Thought,” UNC Honors College seminar program. Chapel Hill, NC (September 3, 2014).

“Introduction to Regression, Discrete Choice, and System Dynamics Modeling.” Huazhong Agricultural University. Led 4.5-day workshop for 20 undergraduate and graduate students, and faculty. Wuhan, China (July 9-11, 14-15, 2014).

“Innovative Market Approaches to Environmental Conservation.” Huazhong Agricultural University, Summer Colloquium Series, Wuhan, China (July 16, 2014).

“Introduction to Agent-Based Modeling.” UNC Odum Institute for Research in the Social Sciences (IRSS). Led 1-day workshop. Chapel Hill, NC (April 30, 2014).

“Academic Publishing 101.” UNC Odum Institute for Research in the Social Sciences (IRSS). Led 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. 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. 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).

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

“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. Sponsored by National Academies’ Keck Futures Initiative. University of New Hampshire, Durham, NH (October 17-19, 2012).

“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 Albemarle-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 28, 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).

Publications in Review

Schwaller, Nora Louise* and Todd K. BenDor. Changing perspectives after the storm: a pre-post evaluation of risk perception and adaptive decision making. *Climatic Change (In Review)*

Vegh*, Tibor and Todd K. BenDor. Determinants of private participation in programs to deliver natural infrastructure as a watershed service: A review. *Ecosystem Services (In Review)*

Vegh*, Tibor and Todd K. BenDor. Testing strategies for maximizing private participation in natural infrastructure payment for ecosystem services programs. *Nature-Based Solutions (In Review)*.

Publications in Preparation

Kelsey Peterson* and Todd K. BenDor. Mitigating the Impacts of Urban Expansion: Compensatory Mitigation Banking as a Tool for Public Housing Authorities.

BenDor, Todd K., Nikhil Kaza, and Jordan Branham*. Modeling the financial impacts of permitting delays in an ecosystem service market.

BenDor, Todd K., Christopher Samoray*, Nikhil Kaza, and Lauren Joca*. Data-driven environmental markets: lessons for improving database design and use from US mitigation markets.

BenDor, Todd K., Jordan Branham*, Andrew Whittemore, and Dylan Timmerman*. Transfer of development rights and water quality trading: a comparative assessment for creative, market-based environmental policies.

- Linkous, Evangeline, Branham, Jordan*, and Todd K. BenDor. Review of U.S. Transfer of development rights and Water Quality trading program implementation policies.
- BenDor, Todd K., Kelsey Peterson*, Kelmenson, Sophie*, Christopher Samoray*, Barbara Doll, T. William Lester. Green infrastructure for flood mitigation: economic impact analysis of a large-scale program.
- Branham, Jordan*, Kyle Onda*, Todd K. BenDor, Nikhil Kaza, and David Salvesen. The Effects of Subsidy Removal on Rates of Shoreline Armoring: a longitudinal analysis. [Longitudinal Armoring]
- Branham, Jordan*, Nikhil Kaza, and Todd K. BenDor. Do development disincentives influence land conservation activity? [Branham Dissertation Paper 3]
- Schwaller, Nora Louise* and Todd K. BenDor. Increased movement and decreased discretion: migration in relation to major disaster events and risk exposure. [Schwaller Dissertation Paper 2]
- Schwaller, Nora Louise* and Todd K. BenDor. Do floodplain buyouts mitigate individual risk?: comparisons between buyouts and post-disaster migration. [Schwaller Dissertation Paper 3]
- Schwaller, Nora Louise* and Todd K. BenDor. Assessing public officials views on saltwater intrusion: retreat and armoring. [SEES Interviews]
- Schwaller, Nora*, Miyuki Hino, and Todd K. BenDor. Improving Livelihoods through Managed Retreat: Lessons from Housing Policy. [TU Housing]
- Vegh*, Tibor and Todd K. BenDor. Prioritizing floodplain buyout properties to facilitate land restoration for NI and to mitigate flood hazard risk. [Vegh Dissertation Paper 3]

TEACHING ACTIVITIES

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

- PLAN 055: *First Year Seminar – Sustainable Cities*. Fall 2008-2010, 2012-2014
- PLAN 641: *Watershed Planning*. Fall 2007-2008, 2010, 2012-2015, 2017-2018; Spring 2020, 2021, 2023
- PLAN 721: *Advanced Planning Methods*. Spring 2008-2011, 2013-2018
- PLAN 722: *Systems Thinking and Modeling for Planners*. Spring 2014-2019; Fall 2018
- PLAN 745: *Development Impact Assessment*. Spring 2008-2011, 2013-2018; Fall 2019-2022
- PLAN 911: *Academic Publishing for Planning Graduate Students (PhD seminar)*. Fall 2015 (15 students), Spring 2019 (9 students), Spring 2023 (9 students)
- PLAN 911: *Grant and Proposal Writing in Planning (PhD seminar)*. Spring 2016 (11 students)
- PLAN 911: *Professional Development (PhD seminar)*. Fall 2018 (10 students)
- Teaching activities at UNC Odum Institute for Research in the Social Sciences: *Introduction to Agent-Based Modeling, Introduction to Systems Thinking and System Dynamics Modeling, Academic Publishing 101* (2014-Present)
- 2015-2016 Instructor in “Data Matters” Data Science Short Course Series” for National Consortium on Data Science: *Simulation Strategies in Data Science: System Dynamics and Agent-based Modeling*

Current PhD Advisees

- Joanne Chen (2023-Present)
- Joungwon Kwon (2019-Present)
- Christopher Samoray (2021-Present)
- Tibor Vegh (2016-Present)
- Helena Garcia (co-advised with Miyuki Hino) (2021-Present)

Graduated PhD Advisees

- 2022:** Nora Louise Schwaller (2019–2022) – “Migration Patterns And Household Adaptation Dynamics In Response to Hurricanes, Floods, and Sea Level Rise” [Post-doc at Brown University; Asst. Professor at UC-San Diego]
- Jordan Branham (2017–2022) – “Measuring the impacts of federal subsidy removal on coastal land use and development: An evaluation of the U.S. Coastal Barrier Resources Act” [Senior Research Associate at Argonne National Laboratory]
- 2017:** Sierra Woodruff (2011–2017) – “Local climate change adaptation in the United States” [Asst. Prof. at Texas A&M; AAAS Fellow at US State Department]

Senior Honors Theses Advisees

- 2021:** Emily Galvin – “Economic impacts of natural infrastructure in Washington, DC.” (*Published as peer reviewed article*)

2014: Marisa Berry – “Impact of sea level rise on development suitability in New York City.” (*Published as peer reviewed article*)

Master’s Projects/Thesis Advisees

2023: Henry Read – “A Street Tree Plan for Vass, NC”

Katie Miller – “Comparative Analysis of Incentives in Form-Based Codes in North Carolina” (*In preparation as peer reviewed article*)

Cameron McBroom-Fitterer – “The Future of Loss and Damage & Potential Insurance-Based Solutions: A Literature Review & Case Study of Barbados”

Kelsey Peterson – “Mitigating the Impacts of Urban Expansion: Compensatory Mitigation Banking as a Tool for Public Housing Authorities” (*In preparation as peer reviewed article*)

2022: Pierce Holloway – “Proximal Home Value Impacts of Floodplain Buyouts in Charlotte, North Carolina” (*Published as peer reviewed article*)

2021: Sam Boswell – “Whose Streets Matter? Evaluating the Equity of Charlotte’s Neighborhood Traffic Calming Policy”

Kathryn Evans – “Green Infrastructure Site Suitability Analysis for Wyandotte County, Kansas”

Eli Powell – “Bicycle Parking in Chapel Hill, North Carolina: Where It’s At and Where It’s Going”

Matthew Ungaro (MS in Ecology)- “Prioritizing stream mitigation: the impacts of in-kind stream mitigation requirements on the mitigation banking market in Texas’s Upper Trinity River Basin” (*Published as peer reviewed article*)

2020: Siri Nallaparaju – “Assessing the Economic Impacts of Coastal Armoring in Boston”

Daniel Willems – “Stormwater Utility Fees: A North Carolina Affordability Analysis”

2019: Evan Kirk – “Modeling Single-Family Residential Stormwater Fees in North Carolina: A Comparison of the Equitability and Affordability of Four Fee Structures”

Dylan Timmerman – “An Inventory of Transfer of Development Rights Programs in the United States” (*Published as peer reviewed article*)

Audrey Vogel – “Assessing green infrastructure implementation in Washington, DC to promote equity and climate change resilience

2018: Kaley Huston – “From Gas Station To Gastro Pub: The Potential for Petroleum Brownfield Redevelopment through the North Carolina Brownfields Program”

2017: Maureen Devlin – “Before Bike Share: Bolstering the 2014 Bike Plan” (December 2017)

2015: Avery Livengood – “Integrating Green Stormwater Infrastructure into the Built Environment”

Nathaniel Baker – “The Graham 2035 Comprehensive Plan”

Ryan Boivin – “Building a Fact Base for Local Decision Support: A Test of the NC Coastal Federation Watershed Restoration Planning Guidebook”

Mikey Goralnik – “Resource Resiliency: preparing rural America for an uncertain climatic future through community design and ecosystem service provision” **Received UNC City and Regional Planning Best Master’s Project Award and published in short form in The Carolina Planning Journal.*

2014: Daniel Hedglin – “What are the current factors that affect risk distribution and structure around emerging ecosystem service markets in China?”

Fredy Grefa – “Do local comprehensive plans support the Kichwa of the Ecuadorian Amazon in reaching their collective rights?”

2013: Tania Jordanova – “Space/Time Estimation of Fecal Coliform in North Carolina using Land Use Regression to Evaluate the Effectiveness of Stormwater Management Policies” (*Published as peer reviewed article*)

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

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

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*)

GRANTS

- 2022-2023: Buyouts, elevating, and floodproofing: Understanding social equity of flood interventions for existing residential structures. Department of Homeland Security Coastal Resilience Center. (Co-PI) (\$95,296, 4.3% effort)
- 2021-2023: Restoration in your backyard: A fresh look at the restoration economy and its localized economic and employment impacts. Environmental Restoration Business Association. (PI) (\$40,000, 11.11% effort)
- 2020-2025: GCR: The Frontiers of Climate Change. Who Stays, Who Goes? NSF Growing Convergent Research. (GCR # 2021086) (Co-PI) (\$3,479,458, 6.25% effort)
- 2019-2021: Innovating floodplain buyouts: evaluating the buyout process and physical risk reduction through buyout targeting. UNC Policy Collaboratory (PI) (\$424,878, 11.11% effort)
- 2019-2021: Improving North Carolina’s Resilience to Coastal Riverine Flooding. UNC Policy Collaboratory (Co-PI; led by NCSU) (\$91,375 [\$337,000 total], 0% effort)
- 2019-2020: Mitigating the impacts of WOTUS uncertainty on North Carolina. UNC Policy Collaboratory (Co-PI) (\$34,166, 0% effort)
- 2019-2021: Dynamics of Extreme Events, People, and Places (DEEPP). UNC Office of the Vice Chancellor for Research, Creativity Hub Pilot Award (Co-PI) (\$500,000, 0% effort)
- 2018-2019: Development of Water Quality Trading Data and Resources to Support Environmental Markets. USDA Office of Environmental Markets (PI) (\$25,000, 22.22% effort)
- 2018-2021: SCC-IRG RCN: Smart Civic Engagement in Rapidly Urbanizing Regions. NSF Smart & Connected Communities (SCC # 1737563) (Co-PI), (\$41,237, 11.11% effort)
- 2017-2018: Are Floodplain Buyouts a Smart Investment for Local Governments? UNC Policy Collaboratory (Co-PI) (\$75,000, 11.11% effort)
- 2017-2020: “How does removal of infrastructure subsidies alter development? Evaluating the impact of the U.S. Coastal Barrier Resources Act.” NSF Geography and Spatial Sciences (GSS #1660450) (PI) (\$348,507, 11.11% effort)
- 2015-2020: “Salinization of the inland coastal plain through saltwater intrusion: landscapes in transition along the leading edge of climate change.” NSF Coastal SEES (#1427188) (Co-PI) (\$357,340 total amount, 11.11 % effort)
- 2013: “The Restoration Economy.” The Conservation Fund (PI) (\$10,000, 0% effort)
- 2013-2014: “A National Survey of Jobs Associated with The Restoration Economy.” Blue Moon Fund (PI) (\$58,000, 6.3% effort)
- 2013: “Understanding and Exploring the Restoration Economy.” Walton Family Fund (PI) (\$30,000, 4% effort)
- 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) (\$25,694, 5.2% effort)
- 2010 – 2012: “Decision Support System Frameworks for Eastern North Carolina.” DoD Southeast Regional Partnership for Planning and Sustainability Program (SERPAS) (Co-PI) (\$50,000, 5% effort)
- 2010 – 2013: “Hierarchical Analysis of Socio-Ecological Interactions in the Charlotte Metropolitan Region: Can Urbanization, Forest and Working Lands Coexist?” NSF ULTRA-Ex (#0949170) (Co-PI). (\$13,966, 5.55% effort)

- 2010 – 2012: “Reconciling Human and Natural Systems for the Equitable Provision of Ecosystem Services in the Triangle of North Carolina.” NSF Ultra-Ex (#0948181) (Senior personnel) (\$92,903, 0% effort)
- 2010: “Urban Growth and Environmental Markets to Achieve Pollution Neutrality.” UNC Junior Faculty Development Grant (PI) (\$7,500, 0% effort)
- 2008 – 2010: “Academic Workshop Follow-up: Research to Promote a Sustainable Southeast.” DoD Southeast Regional Partnership for Planning and Sustainability Program (SERPAS) (Co-PI) (\$64,685, 7.5% effort)
- 2009 – 2010: “Academic Workshop Follow-up: Research to Promote a Sustainable Southeast.” DoD Southeast Regional Partnership for Planning and Sustainability Program (SERPAS) (Co-PI) (\$55,120, 8% effort)
- 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, 0% effort)
- 2009 – 2009 GlaxoSmithKline Faculty Fellowship. Institute for Emerging Issues, NC State University (PI) (\$15,000, 0% effort)
- 2008 – “Assessment of North Carolina Ecosystem Enhancement Program.” UNC Institute of the Environment, Center of Landscape Change and Health (PI) (\$7,000, ~6% effort)
- 2007 – “Urban Land Use Modeling Feasibility Study for North Carolina.” Renaissance Computing Institute (RENCI). (PI) (\$7,200, 8.3% effort)

PROFESSIONAL SERVICE

Department of City and Regional Planning (UNC-Chapel Hill) Service

- Director, Graduate Studies (MCRP 2013-2015; PhD 2015-2019, 2022-Present)
- Director, Land Use and Environmental Planning Specialization (2013-2019)
- Associate Director, PhD Program (2012-2013)

UNC-Chapel Hill Service

- Director, Odum Institute for Research in Social Science (Fall 2018-Present)
- Team Co-Lead, UNC Provost’s “Carolina Next” Strategic Planning Committee (Obj. 6.2: Faculty outreach) (Summer 2020-2022)
- Member, UNC Chancellor’s Buildings and Grounds Committee (2017-2020)
- Member, UNC Provost’s DataScience@Carolina Committee (+ Liaison to Research Sub-committee) (2018-2021); led to proposal – and ultimate creation – of UNC’s School of Data Science and Society
- Member, OVCR Evaluation Committee for Institute for Marine Sciences (2019)
- Member, OVCR Evaluation Committee for Odum Institute for Research in the Social Sciences (2016)
- Faculty Advisor, Students for the New Urbanism/Carolina Urbanists, UNC Student Group (2012-2014); Epsilon Eta, Co-Ed Environmental Honors Fraternity, UNC Alpha Chapter (2009-2010); UNC Home Brewers (2014-2016)

Disciplinary Service

- Editorial board member, *Landscape and Urban Planning* (2018-2020)
- Track Chair, Resources Track, *International System Dynamics Conference* (2017-Present)
- Associate Editor, *Environmental Science and Policy* (2016-2018)
- Member, EPA Board of Scientific Counselors (BOSC) Sustainable & Healthy Communities Subcommittee (2014-2017)
- Member, Scientific Review Committee, *National Socio-Environmental Synthesis Center* (SESYNC) (2013-2018)
- Member, Advisory Board for the System Dynamics Major, *Worcester Polytechnic Institute* (2008-2011)
- Advisor, Land Use Impact Assessment Team, *State of NC Sea Level Rise Risk Management Study* (2007-2008)
- 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, 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, Ecosystem Services Partnership (Foundation for Sustainable Development)*

Community Service

- Member, Board of Directors, Orange Water and Sewer Authority (OWASA), Orange County, NC (2021-Present; Vice Chair 2022-2023)
- Member, North Carolina Flood Resiliency Blueprint Technical Advisory Group (March 2023 – Present)