

# Paige S. Warren

## Curriculum Vita

### EDUCATION

**Ph.D. - Zoology.** University of Texas at Austin, 2000; Advisor: M.J. Ryan Austin, TX  
**B.A. - Biology** with Highest Honors. 1992. University of North Carolina Chapel Hill, NC  
at Chapel Hill, Advisor: R. H. Wiley

### ACADEMIC APPOINTMENTS

**Professor,** Dep. Environmental Conservation Amherst, MA  
University of Massachusetts at Amherst, 2018-ongoing  
**Visiting Scholar,** School of Sustainability and School of Life Sciences,  
Arizona State University, Aug 2012-Jun 2013 Tempe, AZ  
**Associate Professor,** Dep. Environmental Conservation Amherst, MA  
University of Massachusetts at Amherst, 2012-2018  
**Assistant Professor,** Dep. Natural Resources Conservation Amherst, MA  
University of Massachusetts at Amherst, 2007-2012  
**Research Assistant Professor,** Dep. Natural Resources Conservation Amherst, MA  
University of Massachusetts at Amherst, 2004-2007  
**Research Scientist,** Department of Biology, Virginia Polytechnic Blacksburg, VA  
Institute and State University, 2001-2004  
**Postdoctoral Associate,** Biology Department and Center for Tempe, AZ  
Environmental Studies (Advisor: A. P. Kinzig) Arizona State  
University, 2000-2002

### ADMINISTRATION AND LEADERSHIP

**Department Head** (2021-ongoing), Environmental Conservation, UMass-Amherst; leading a department of 38 faculty, with 3 undergraduate majors (approximately 800 students) and multiple graduate programs (120-150 students); responsible for overseeing all aspects of the department including personnel performance of faculty and staff, facilities, budgets, implementation of policy  
**Program Leader/Graduate program director** (2018-2020), Organismic and Evolutionary Biology, an interdepartmental graduate program with 40 students, drawing faculty from across the UMass campus and local private colleges; responsible for overseeing all aspects including admissions, seminars and core courses, implementation of policy, staff development, and the program's budgets

#### *Leadership trainings*

HERS Institute, yearlong training in higher education leadership (2020-2021)  
UMass ADVANCE program – participant in biweekly training sessions for department chairs (2020-ongoing)  
UMass STRIDE Fellow (2021-2022) – trained to lead anti-bias trainings for faculty search committees; responsible for delivering two training sessions

UMass Intergroup Dialogue Fellow (Fall 2022) – participated in a semester-long intensive training session on intergroup dialogue (IGD); developed an ongoing project on using IGD to facilitate more inclusive meetings

UMass ADVANCE Leader of Practice team member (2023-ongoing) – attending monthly meetings of the ADVANCE

## **RESEARCH**

### **Grants & Contracts**

- 2022 FUNDED "LTER: CAP V - Investigating urban ecology and sustainability through the lens of Urban Ecological Infrastructure" PI: Dan Childers; Warren PI on subcontract to UMass-Amherst (\$75,000)
- 2022 REJECTED "IGE: Strategic Design Thinking to Enhance Self-Efficacy in Graduate Students"; PIs: T. Randhir, S. Garman, D. Venkatraman, P. Wadsworth, **P. Warren**; NSF Innovations in Graduate Education (\$498,710)
- 2021 FUNDED "EVO-LTER: Multifaceted mechanisms of metropolis: Integrating society, ecology, evolution, and plasticity to advance urban evolutionary ecology" NSF DEB# 2129699; PIs: K. McGraw, **P. Warren**, J. C. Johnson, S. E. Diamond, C. J. Schell (\$99,123)
- 2020 REJECTED "IGE: Strategic Design Thinking to Enhance Self-Efficacy in Graduate Students"; PIs: T. Randhir, S. Garman, D. Venkatraman, P. Wadsworth, **P. Warren**; NSF Innovations in Graduate Education (\$498,710)
- 2020 REJECTED "DISES: Spatial and temporal dynamics of human-wildlife interactions across a heterogeneous urban ecosystem"; PIs: K. Larson, **P. Warren**, H. Bateman, A. Frazier, and J. Rosales-Chavez; National Science Foundation Dynamics of Integrated Socio-Environmental Systems (DISES) Program (\$1,538,013)
- 2019 REJECTED "IGE: Enabling Design Thinking for Student Self-Efficacy and Career Success"; PIs: T. Randhir, S. Garman, D. Venkatraman, P. Wadsworth, **P. Warren**; NSF Innovations in Graduate Education (\$500,000) - *rated 'competitive'*
- 2018 FUNDED "LTER: CAP IV - Investigating urban ecology and sustainability through the lens of Urban Ecological Infrastructure" PI: Dan Childers; Warren PI on subcontract to UMass-Amherst (\$61,300)
- 2018 REJECTED "CNH-L: Governing for Diversity: Feedbacks among Governance Systems, Place Attachment, Human Diversity and Biodiversity in Urban Green Spaces" PIs: P. Warren, B. Bushouse, E. Markowitz, R. Ryan, K. Stinson; NSF CNH (\$1,599,801)
- 2017 REJECTED "Fast food in the food web: Investigating the impact of anthropogenic subsidies on trophic dynamics along urbanization gradients" NSF DEB Population and Community Ecology Cluster (\$994,316)
- 2017 INVITED "Preliminary Proposal: Fast food in the food web: Investigating the impact of anthropogenic subsidies on trophic dynamics along urbanization gradients" PIs: **P. Warren**, D. King, and S. Lerman, NSF DEB Population and Community Ecology Cluster.
- 2016 REJECTED "Use of Forested Habitat Adjacent to Highways by Northern Long Ear Bats" PIs: **P. Warren**, S. Civjan, S. Jackson, New England Transportation Consortium (NETC) 15-1 (\$165,000)

- 2016 REJECTED “Preliminary Proposal: Untangling the predation paradox for nesting songbirds across three urban gradients in southern New England” PIs: **P. Warren**, D. King, and S. Lerman, NSF DEB Population and Community Ecology Cluster
- 2015 REJECTED “Governing for Diversity: Feedbacks among Governance Systems, Place Attachment, Human Diversity and Biodiversity in Urban Green Spaces” PIs: **P. Warren**, B. Bushouse, K. Harper, M. Hill, R. Ryan, NSF CNH-L (\$1,745,059)
- 2014 INVITED “Preliminary Proposal: Untangling the predation paradox for nesting songbirds across three urban gradients in southern New England” PIs: **P. Warren**, D. King, and S. Lerman, NSF DEB Population and Community Ecology Cluster. *Full proposal was not funded.*
- 2014-2019 “Collaborative: RCN: UrBioNet: A global network of urban biodiversity research and practice” PIs: C. Nilon, M. Aronson, C. Lepczyk, T. Parker, and **P. Warren** NSF DEB Population and Community Ecology Cluster (\$274,000 total; \$0 to UMass-Amherst)
- 2014-2016 “Pathways: From the Lab to the Neighborhood: An Interactive Living Exhibit for Advancing STEM Engagement with Urban Systems in Science Museums” PIs: R. Ryan, B. Loring, C. Polsky, E. Strauss, and **P. Warren**. NSF DRL Informal Science Education (\$249,999)
- 2012-2013 Supplement to BMA ULTRA-Ex for EPA Climate Project, NSF BCS Lead PI: **P. Warren** (\$44,403)
- 2012 INVITED, “Preliminary Proposal: From soils to nests: untangling interactions among bottom up and top down processes in novel and invaded forest ecosystems” PIs: G. Shriver, **P. Warren**, V. D’Amico, D. Delaney, NSF DEB Ecosystem Studies. *Full proposal was not funded.*
- 2012-2014 “Understanding the Factors that Influence Outdoor Residential Water Conservation: A Case Study in suburban Boston” PIs: R. Ryan, A. Roy, A. Milman, C. Nicolson, **P. Warren**, M. Owen, M. Davidsohn, M. Dipasquale, C. Polsky. Special Call for funding from UMass Extension. (\$109,975)
- 2011-2012 “Comparative ecology of cities: What makes an urban biota ‘urban?’” Working Group Proposal to NCEAS. PIs: M. Aronson, M. Katti, C. Nilon, and **P. Warren** (\$87,000 – only 4 out of 35 proposals funded this year)
- 2010-2015 “Boston Metropolitan Area ULTRA: Exploring past, current and future socio-ecological dynamics in a founding city” NSF DEB/USDA Forest Service ULTRA-Ex grant program. **P. Warren** and E. Strauss (lead PIs) with C. Nicolson, C. Polsky, and R. Ryan (co-PIs) (\$298,742)
- 2008-2014 “Collaborative Research: The ecological and evolutionary consequences of urbanization on multispecies plant-animal interactions” NSF DEB Ecology Panel. PIs: L. Adler and **P. Warren**, in collaboration with R. Irwin at Dartmouth College (Total award: \$504,000, UMass portion \$292,000).
- 2008-2011 “Re-gaining Ground: Seeking sustainable solutions to suburbanization and loss of open space in southern New England” Special Call for funding from UMass Extension. PIs: **P. Warren** with J. Ahern, D. Bloniarz, M. Kelty, T. Randhir, and R. Ryan (\$75,000)
- 2008-2009 “Does vernal pool connectivity predict species presence?” Natural Heritage Small Grants program, Massachusetts Dept Conservation and Recreation. PIs: N. Charney (graduate student) and **P. Warren** (\$5,580)

- 2005-2010 “Intersections of arboriculture and wildlife management: An experimental test of the ecological importance of dead and decaying wood for cavity-nesting bird species” McIntyre-Stennis funds, UMass-Amherst PIs: **P. Warren** and B. Kane. (\$75,000).
- 2005-2008 “Evaluating the effectiveness of wildlife passage structure on the Bennington Bypass”, UMass PIs: Curt Griffin, S. Jackson, and **P. Warren**, contract with Vermont Agency of Transportation. (\$319,000)
- 2005-2008 “Intersections of arboriculture and wildlife management: An experimental test of the ecological importance of dead and decaying wood for cavity-nesting bird species” Faculty Research Grant, UMass-Amherst PIs: **P. Warren** and B. Kane. (\$30,000).
- 2004-2010 “Human Settlements as Ecosystems, Metropolitan Baltimore from 1797 – 2100,” proposal for renewal of the BES LTER – NSF Long Term Studies panel (Lead PIs: S. Pickett). **P. Warren**, Senior Personnel: jointly administering a subcontract to C. Nilon, U of Missouri-Columbia (\$60,000).
- 2005-2007 “Recreational/Wildlife Passage Feasibility Study.” PI’s: John Mullin & Jack Ahern; **P. Warren** lead PI for wildlife component. Metropolitan Area Planning Council, Boston, MA. (\$172,500)
- 2006-2007 “Linking urban development and species interactions: implications for the evolution of native species in urban environments”. Rockefeller Center Urban Studies Faculty Research Grant (administered through Dartmouth College). PI’s: R. Irwin, L. Adler, and **P. Warren** (\$11,200).
- 2004-2006 “Central Arizona-Phoenix Long Term Ecological Research,” renewal of CAP LTER – NSF Long Term Studies panel (Lead PIs: N. Grimm and C. Redman). **P. Warren**, PI on subcontract to UMass-Amherst (\$95,753).

### Other Competitive Grants, Fellowships and Awards

- 2020 Distinguished Graduate Mentoring award, UMass (3 awardees selected from across the campus)
- 2020 Excellence in Diversity and Inclusion, UMass College of Natural Sciences (1 faculty awardee per year from across the 14 departments and schools in the college)
- 1998 NSF Dissertation Improvement Grant (IBN-98-01490, \$10,000)
- 1999 Best Student Presentation, 5th Symp. on Resources of the Chihuahuan Desert Region
- 1999 Hartman Fellowship, University of Texas Zoology Scholarship Endowment
- 1997 Frank Chapman Fund of the American Museum of Natural History (\$2000)
- 1994-1998 Seven grants from the Zoology Scholarship Endowment for Excellence (\$350-\$1500)
- 1994 University Preemptive Fellowship, University of Texas
- 1994 National Science Foundation Graduate Research Fellowship

### Refereed Publications

Graduate students and postdocs underlined. Undergraduate students underlined and \*.

Citizen scientists underlined and †.

Contributions to other multi-authored papers indicated in [ ].

*In preparation (manuscripts available upon request):*

Danford, R. S., **P. S. Warren**, D. Kittredge, B.C.P. Kane (in revision) Will residential owners accept risk to maintain wildlife habitat on private property?

Grade, A. M., S. B. Lerman, **P. S. Warren** (in revision) Urban bird provisioning and brooding are influenced by fear of predators across an urban gradient. Planned submission to *PlosOne*

MacGregor-Fors, Ian; Rega-Brodsky, Christine; Kotze, Johan; MacIvor, J. Scott; Hahs, Amy; Moretti, Marco; Williams, Nicholas; Lepczyk, Christopher; Jung, Kirsten; Katti, Madhusudan; Knapp, Sonja; La Sorte, Frank; Piana, Max; Threlfall, Caragh; Warren, Paige; Nilon, Charles; Aronson, Myla (in review) Navigating urban ecology: Conceptual and methodological insights; *Ecology*

Fitch, G., P. Warren, L. Adler, R. Irwin (in review) Socioecological drivers of mutualistic and antagonistic plant-insect interactions in suburban landscapes. *PlosOne*

*Published:*

62. Warren, P.S., R. L. Ryan, B. Bushouse, K. Harper, K. Stinson (2023) Sustaining Urban Forests in Post-Industrial Cities: Place Attachment, Ecology, and Stewardship Potential, *Cities and the Environment* 16(2):Article 4  
<https://digitalcommons.lmu.edu/cate/vol16/iss2/4/>
61. Grade, A. M., N. W. Chan, P. Gajbhiye, D. J. Perkins, and **P. S. Warren**. 2022. Evaluating the use of semi-structured crowdsourced data to quantify inequitable access to urban biodiversity: A case study with eBird. *PLOS ONE* 17:e0277223.
60. Brown, Jeffrey A., S. Lerman, A. J. Basile, H. L. Bateman, P. Deviche, **P. Warren**; K. L. Sweazea (2022) No Fry Zones: How Restaurant Distribution and Abundance Influences Avian Communities in the Phoenix, AZ Metropolitan Area, *PLOS One*
59. Carper, A., **P. Warren**, L. Adler, R. Irwin (2022) Pollination in suburban landscapes: consequences for pollen limitation of native plant reproduction. Invited to resubmit to *American Journal of Botany* 109:1969–1980; <https://doi.org/10.1002/ajb2.16080>
58. Grade, A.M., **P.S. Warren**, and S.B. Lerman. (2022) Managing yards for mammals: mammal species richness peaks in the suburbs and in yards with larger trees. *Landscape and Urban Planning* 220:104337; <https://doi.org/10.1016/j.landurbplan.2021.104337>
57. Andrade, R., K. L. Larsen, J. Franklin, S. B. Lerman, H. L. Bateman, P. S. Warren (2022) Species traits explain public perceptions of human-bird interactions, *Ecological Applications*, <http://doi.org/10.1002/eap.2676>
56. Bocsi, T., R. Harper, **P. Warren**, S. DeStefano (2021) Exploring the Ecology of Establishing Oak Trees in Urban Settings of the Northeast, *Cities and the Environment* 14(1):Article 3
55. Grade, A., S. B. Lerman, **P. S. Warren** (2021) Perilous choices: landscapes of fear for adult birds reduced nestling condition in residential yards across an urban gradient, *Ecosphere* 12(7): e03665; <http://doi.org/10.1002/ecs2.3665>
54. Andrade, R., J. Franklin, K. L. Larson, C. M. Swan, S. B. Lerman, H. L. Bateman, **P. S. Warren**, A. M. York (2020) Predicting the assembly of novel communities in urban ecosystems, *Landscape Ecology*. DOI: <https://doi.org/10.1007/s10980-020-01142-1>
53. Brown, J. A., K. L. Larson, S. B. Lerman, D. L. Childers, R. Andrade, H. L. Bateman, S. J. Hall, **P. S. Warren** and A. York (2020) Influences of Environmental and Social Factors on Perceived Bio-cultural Services and Disservices, *Frontiers in Ecology and Evolution*, section *Urban Ecology* 8. DOI: <https://doi.org/10.3389/fevo.2020.569730>
52. Kuras, E., **P. Warren**, J. Zinda, M. Aronson, S. Cilliers, M. Goddard, C. Nilon, R. Winkler (2020), Urban socioeconomic inequality and biodiversity often converge but not always: a global meta-analysis, *Landscape and Urban Planning* 198:103799  
<https://doi.org/10.1016/j.landurbplan.2020.103799>

51. Allen, D. C. Allen, H. L. Bateman, **P. S. Warren**, F. Suzart de Albuquerque, S. Arnett-Romero, and B. Harding (2019) Long-term effects of land-use change on bird communities depend on spatial scale and land-use type, *Ecosphere* 10(11): e02952 <https://doi.org/10.1002/ecs2.2952>
50. Kerstens, M.\*, A. Grade, **P.S. Warren** (2019) Is "pishing" tantamount to mobbing? Black-capped chickadees (*Poecile atricapillus*) respond similarly to human pishing and conspecific mobbing calls in rural and suburban forests, *Northeastern Naturalist* 26(3): 580-592 <https://doi.org/10.1656/045.026.0311>
49. Hensley, C., M. Katti, C. Trisos, **P. S. Warren**, J. MacFarland, S. Blumenshine, J. Reece (2019) Effects of Urbanization on Bird Assemblages in Three Southwestern US Cities. *Frontiers in Ecology and Evolution* 7:71. [doi: 10.3389/fevo.2019.00071](https://doi.org/10.3389/fevo.2019.00071)
48. **Warren, P. S.**, S. B. Lerman, R. Andrade, K. Larson, H. Bateman (2019) The more things change: Species losses detected in Phoenix despite stability in bird-socioeconomic relationships. *Ecosphere* 10(3):2-22 [doi.org/10.1002/ecs2.2624](https://doi.org/10.1002/ecs2.2624)
47. Irwin, R.E., **P.S. Warren**, L.S. Adler (2018) Phenotypic selection on floral traits in an urban landscape. Invited submission to special issue, *Proc Roy Soc B* 285: 20181239 [DOI: 10.1098/rspb.2018.1239](https://doi.org/10.1098/rspb.2018.1239)
46. Rega-Brodsky, C. C., C. H. Nilon, **P. S. Warren** (2018) Balancing urban biodiversity needs and resident preferences for vacant lot management, *Sustainability* 10:1679. [doi.org/10.3390/su10051679](https://doi.org/10.3390/su10051679)
45. LaSorte, F., C. Lepczyk, M. Aronson, M. Goddard, M. Katti, I. MacGregor-Forst, U. Mörtberg, C. Nilon, **P. Warren**, N. Williams, J. Yang (2018) The phylogenetic and functional diversity of regional breeding bird assemblages is reduced and constricted through urbanization. *Diversity and Distributions* 29:377–383. [doi.org/10.1016/j.ufug.2017.11.014](https://doi.org/10.1016/j.ufug.2017.11.014)
44. Bocsi, T.\*, S. DeStefano, R. Harper, **P. Warren** (2018) Wildlife Habitat Management on College and University Campuses. *Cities and the Environment* (CATE Journal) 11. <http://digitalcommons.lmu.edu/cate/vol11/iss1/1>
43. Danford, R.S., M. Strohbach, **P. S. Warren**, and R. L. Ryan (2018) Active Greening or Rewilding the city: How does the intention behind small pockets of urban green affect use and access? *Urban Forestry and Urban Greening* 29:377-383
42. Cheng, C., R. Ryan, **P.S. Warren**, C. Nicolson (2017) Visualization and scenario planning: Working with stakeholders to achieve the multiple benefits of sustainability. *Cities and the Environment* 10:1. <http://digitalcommons.lmu.edu/cate/vol10/iss1/7/>
41. Pickett, S. T. A., M. L. Cadenasso, E. J. Rosi-Marshall, K. T. Belt, P. M. Groffman, J. Morgan Grove, E. G. Irwin, S. S. Kaushal, S. L. LaDeau, C. H. Nilon, C. M. Swan, **P. S. Warren** (2017) Dynamic Heterogeneity: A Framework to Promote Ecological Integration and Hypothesis Generation in Urban Systems. *Urban Ecosystems* 20(1):1-14. [doi:10.1007/s11252-016-0574-9](https://doi.org/10.1007/s11252-016-0574-9)
40. Banville, M., H. Bateman, S. Earl, **P. Warren** (2016) Decadal declines in bird abundance and diversity in urban riparian zones. *Landscape and Urban Planning* 159:48-61
39. Aronson, M.F.J., C.H. Nilon, C.A. Lepczyk, T. Parker, **P. S. Warren**, S. Cilliers, M.A. Goddard, A. Hahs, C. Herzog, M. Katti, F. A. La Sorte, N.S.G. Williams, and W. Zipperer (2016) Hierarchical filters determine community assembly of urban species pools. *Ecology*, 97:2952-2963, DOI: 10.1002/ecy.1535

38. Kane, B.C.P., **P.S. Warren**, S.B. Lerman (2015) Tree risk assessment and the occurrence of cavity-nesting birds in residential landscapes. *Urban Forestry & Urban Greening* 14: 1137-1146.
37. Schmidt, P., S. Caspers, **P. Warren**, K. Witte (2015) First steps into the wild – Exploration behavior of European bison after the first reintroduction in Western Europe. *PLoS ONE* 10(11): e0143046, doi:10.1371/journal.pone.0143046
36. Rega, C., C. Nilon, **P.S. Warren** (2015) Avian abundance patterns in relation to the distribution of small urban greenspaces. *Journal of Urban Planning and Development* (Special issue on Green Infrastructure), [10.1061/\(ASCE\)UP.1943-5444.0000279](https://doi.org/10.1061/(ASCE)UP.1943-5444.0000279), A4015002.
35. Strohbach, M. W., A. Hrycyna<sup>†</sup>, and **P. Warren** (2014) 150 years of changes in bird life in Cambridge, Massachusetts from 1860 to 2012. *Wilson Journal of Ornithology* 126:192–206.
34. Ryan, R.L., **P. S. Warren**, C. Nicolson, C. Cheng, R. Danford and M. Strohbach. (2014) Scenario Planning for the Boston Metropolitan Region: Exploring Environmental and Social Implications of Alternative Futures. *Land. Arch. China* ([http://www.la-bly.com/news/show\\_news.aspx?news\\_id=163](http://www.la-bly.com/news/show_news.aspx?news_id=163))
33. Aronson, M., F. La Sorte, C. Nilon, M. Katti, M. Goddard, C. Lepczyk, **P. Warren**, N. Williams, S. Cilliers, B. Clarkson, C. Dobbs, M. Heblom, J. Louwe Kooijmans, I. MacGregor-Fors, U. Mortberg, S. Siebert, P. Werner, I. Kuehn, M. McDonnell, J. Sushinsky (2014) A global analysis of the impacts of urbanization on bird and plant diversity reveals key anthropogenic drivers. *Proc Roy Soc B* 281:20133330. <http://dx.doi.org/10.1098/rspb.2013.3330>
32. Irwin, R.E., **P.S. Warren**, A.L. Carper, L.S. Adler (2014) Natural selection in urban environments: the role of plant-animal interactions. *Oecologia* 174:803–815.
31. Carper, A., L. Adler, **P. Warren**, R. Irwin (2014) Effects of suburbanization on forest bee communities. *Environmental Entomology* 43(2): 253-262.
30. Danford, R.S., C. Cheng, M. Strohbach, R. Ryan, C. Nicolson, **P. Warren** (2014) What Does It Take to Achieve Equitable Urban Tree Canopy Distribution? A Boston Case Study *Cities and the Environment* 7(1):Article 2. <http://digitalcommons.lmu.edu/cate/vol7/iss1/2>
29. Strohbach, M., S. B. Lerman, and **P. S. Warren** (2013) Are small greening areas enhancing bird diversity? Insights from community-driven greening projects in Boston. *Landscape and Urban Planning*, 114:69-79
28. Bellis, M., C. Griffin, **P. Warren**, S. Jackson (2013) Utilizing a multi-technique, multi-taxa approach to monitoring wildlife passageways in Southern Vermont. *Oecologia Australis* 17(1):111-128
27. Lerman, S. B., **P. S. Warren**, H. Gan\*, and E. Shochat (2012) Linking foraging decisions to residential yard bird composition. *PlosOne* 7(8): e43497
26. Lepczyk, C. A., **P. S. Warren**, L. Machabée, A. P. Kinzig, A. Mertig. (2012) Who feeds the birds? A comparison between Phoenix, Arizona and Southeastern Michigan. *Studies in Avian Biology*, edited series from Cooper Ornithological Society. Series editor: Brett Sandercock. Assoc. Editors for “Urban Bird Ecology and Conservation”: C. Lepczyk and P. Warren.
25. Pickett, S.T.A., G.S. Brush, A.J. Felson, B.P. McGrath, J.M. Grove, C.H. Nilon, K. Szlavecz, C.S. Swan, **P.S. Warren**. (2012) The Baltimore Ecosystem Study: Understanding and Working with Urban Biodiversity. *Citygreen*. Issue 4: 68-77. (invited submission)



24. **Warren, P. S.,** R. L. Ryan, S. B. Lerman, K. Tooke. (2011) Social and institutional factors associated with land use and forest conservation along two urban gradients in Massachusetts. *Landscape and Urban Planning* 102:82-92.
23. Lerman S. B. and **P. S. Warren** (2011) The conservation value of residential yards: Linking birds and people. *Ecological Applications* 21(4):1327-1339.
22. Pickett, S.T.A., M.L. Cadenasso, J.M. Grove, C.G. Boone, E. Irwin, P. M. Groffman, S.S. Kaushal, V. Marshall, B.P. McGrath, C.H. Nilon, R.V. Pouyat, K. Szlavecz, A. Troy, and **P. Warren**. (2011) Urban ecological systems: Foundations and a decade of progress. *Journal of Environmental Management* 92:331-362.  
[Warren is lead author for the section "Organisms: Urban animals"]
21. Mayer, P.M., N. Grimm, C. Lepczyk, S. Pickett, R. Pouyat, **P. Warren** (2010) Urban ecology is already on the research agenda. *Nature* 467(153).
20. Shochat, E., S. B. Lerman, J. M. Anderies, **P. S. Warren**, S. H. Faeth, and C. H. Nilon. (2010) Invasion, competition, and biodiversity loss in urban ecosystems. *BioScience* 60(3):199-208.
19. Ahern J., L. Jennings, B. Fenstermacher, **P. Warren**, N. Charney, S. Jackson, J. Mullin, Z. Kotval, S. Brena, S. Civjan, and E. Carr. (2009) Issues and methods for transdisciplinary planning of combined wildlife and pedestrian highway crossings. Transportation Research Record, No. 2123, *Journal of the Transportation Research Board of the National Academies*, Washington, D.C. pp. 129-136.
18. Charney, N. D., B. H. Letcher, A. Haro, and **P. S. Warren**. (2009) Terrestrial Passive Integrated Transponder antennae for tracking small animal movements. *Journal of Wildlife Management* 73(7):1245-1250.
17. Nilon, C. H., **P. S. Warren**, J. Wolf. (2009) Baltimore birdscape study: Identifying habitat and land cover variables for an urban bird monitoring project. *Urban Habitats* 6
16. Pickett, S.T.A., M.L. Cadenasso, J.M. Grove, P.M. Groffman, L.E. Band, C.G. Boone, G.S. Brush, W.R. Burch, Jr., C.S.B. Grimmond, J. Hom, J.C. Jenkins, N.L. Law, C.H. Nilon, R.V. Pouyat, K. Szlavecz, **P. S. Warren**, M.A. Wilson. (2008) Beyond urban legends: New, unexpected, or complex results from the Baltimore Ecosystem Study. *BioScience* 52(2):139-150. [doi:10.1641/B580208](https://doi.org/10.1641/B580208)
15. **Warren, P. S.**, S. B. Lerman, and N. D. Charney. (2008) Plants of a feather: Spatial autocorrelation in suburban neighborhoods. *Biological Conservation* 141:3-4.
14. Walker, J.S., R.C Balling, Jr., J.M. Briggs, M. Katti, **P. S. Warren**, E. A Wentz. (2008) Birds of a feather: A story of urban and exurban population biology. *Computers, Environment and Urban Systems* 32:19-28.
13. Podos, J. and **P. S. Warren**. (2007) The evolution of geographic variation in birdsong. *Advances in the Study of Behavior*. 37:403-459. [doi: 10.1016/S0065-3454\(07\)37009-5](https://doi.org/10.1016/S0065-3454(07)37009-5)
12. Shochat, E., **P. S. Warren**, and S. H. Faeth. (2006) The future of urban ecology. *Trends in Ecology and Evolution* 21(12):661-662.
11. Shochat, E., **P. S. Warren**, S. H. Faeth, N. E. McIntyre, and D. Hope. (2006) From pattern to emerging processes in urban mechanistic ecology. *Trends in Ecology and Evolution* 21(4):186-191. [doi:10.1016/j.tree.2005.11.019](https://doi.org/10.1016/j.tree.2005.11.019)



10. **Warren, P. S.**, C. Tripler, D. Bolger, S. Faeth, N. Huntly, C. Lepczyk, J. Meyer, T. Parker, E. Shochat, and J. Walker. (2006) Urban food webs: predators, prey, and the people who feed them. *Bulletin of the Ecological Society of America*. 87(4):387-394.
9. Farber, S., R. Costanza, D. L. Childers, J. Erickson, K. Gross, J. M. Grove, C. Hopkinson, J. Kahn, S. Pincetl, A. Troy, **P. S. Warren**, and Matthew Wilson. (2006) Linking ecology and economics for ecosystem management. *BioScience* 56(2):121-133.  
[Manuscript developed as part of an NCEAS working group; Warren authored section "Urban Ecosystem: Central Arizona-Phoenix"]
8. **Warren, P. S.**, M. Katti, M. Ermann, A. Brazel. (2006) Urban bioacoustics – It's not just noise. *Animal Behaviour* 71(3):491-502 <http://dx.doi.org/10.1016/j.anbehav.2005.07.014>
7. Bertram, S. and **P. S. Warren** (2005) Supermales trade off calling rate with duration and intensity: mate attraction strategies of the field cricket, *Gryllus texensis*. *Animal Behaviour* 70:477-484.
6. Kinzig, A. P., **P. S. Warren**, C. Martin, D. Hope, and M. Katti. (2005) The effects of human socioeconomic status and cultural characteristics on urban patterns of biodiversity. *Ecology and Society* 10(1):23 [online] <http://www.ecologyandsociety.org/vol10/iss1/art23/>
5. Faeth, S. H., **P. S. Warren**, E. Shochat, and W. Marussich. (2005) Trophic dynamics in urban communities. *BioScience* 55(5):399-407
4. Martin, C., **P. S. Warren**, and A. P. Kinzig. (2004) Socioeconomic characteristics are useful predictors of landscape vegetation in small urban parks and surrounding neighborhoods. *Landscape and Urban Planning* 69:355-368
3. Katti, M. and **P. S. Warren**. (2004) Research Focus: Tits, noise, and urban bioacoustics. *Trends in Ecology and Evolution*. 19(3):109-110.
2. **Warren, P. S.** (2003) Winter dialects in the Bronzed Cowbird and their relationship to dialects in the breeding season. *Animal Behaviour*. 65:1169-1178
1. **Warren, P. S.** (2002) Geographic variation and dialects in the 'flight whistle' of the Bronzed Cowbird. *Auk* 119:349-361.

*Mentored by the Warren lab*

3. Lerman, S. B., K. Turner, and C. Bang (2012) Homeowner Associations as a vehicle for promoting urban biodiversity: A case study from Phoenix, AZ. *Ecology and Society* 17(4): 45  
<http://www.ecologyandsociety.org/vol17/iss4/art45/>
2. Charney, N. D. (2012) On expert opinion and spatial scale: parameterizing an amphibian model. *Ecological Modeling* 242: 37-45
1. Charney, N. D. (2012) Relating hybrid advantage and genome replacement in unisexual salamanders. *Evolution* 66(5):1387-1397

## **Other Publications**

Graduate students and postdocs underlined.

## *Datasets*

Brown, J., K. Larson, S. Lerman, D. Childers, R. Andrade, H. Bateman, S. Hall, P. Warren, and A. York. 2021. Urban Ecological Infrastructure (UEI) in the greater Phoenix, Arizona metropolitan area and surrounding Sonoran desert region (2010-2017) ver 1. Environmental Data Initiative.  
<https://doi.org/10.6073/pasta/1e54516f04c7ef0b5c304a6f73552240>

## Books

Lepczyk, C. and P. Warren, eds. (2012) *Urban Bird Ecology and Conservation*. University of California Press.

## Book chapters and reports

17. Lerman, S. B., S. Moreno, and **P. S. Warren**. (in review) Expanding the scope of ornithology by engaging diverse communities. Pages XXX in S. V. Edwards and M. J. Reed, editors. *New Perspectives in Ornithology*. Oxford University Press, Oxford, UK.
16. Lerman S.B., D.L. Narango, R. Andrade, **P.S. Warren**, A.M. Grade & K. Straley. (2020) Wildlife in the city: Human drivers and human consequences. Pp. XXX in: P. Barbosa, ed. *Urban Ecology – Its Nature and Challenges of Urban Ecology*. CABI Publishing.
15. Irwin, Rebecca E., Elsa Youngsteadt, **Paige S. Warren**, Judith L. Bronstein (2020) Chapter 7. The evolutionary ecology of mutualisms in urban landscapes in M. Szulkin, J. Munshi-South and A. Charmantier (eds.) *Urban Evolution*, Oxford University Press
14. Lepczyk, C., M. Strohbach, and **P. Warren** (in press, 2018) Chapter 29 in Morrison, M.L., A.D. Rodewald, G. Voelker, M.R. Colón, and J.F. Prather. 2018. *Ornithology: Foundation, Critique, and Application*. Johns Hopkins University Press, Baltimore, Maryland
13. Lepczyk, C., F. LaSorte, M. Aronson, M. Goddard, I. MacGregor-Fors, C. Nilon, **P. Warren** (2017) Global Patterns and Drivers of Urban Birds in *Ecology and conservation of birds in urban environments* by E. Murgui and M. Hedblom (eds.) Springer Verlag, pp. 13-33.
12. Arnold, E., M.W. Strohbach, P.S. Warren (2014) Allergenic potential of street trees in Boston, Massachusetts. Pp. 115–141 in *Human-Environmental Interactions in Cities – Challenges and Opportunities of Urban Land Use Planning and Green Infrastructure* by N. Kabisch, N. Larondelle, A. Reeve, M. Artmann (eds.) Cambridge Scholars.
11. Strohbach, M.W., Peterson, Nils, P.S. Warren (2014) Urban Wildlife Science in Coupled Human-Natural Systems in *Urban Wildlife Science: Theory and Practice* by R. McCleery, C. Moorman, and N. Peterson (eds.) Springer, pp.33-53.
10. Shanahan, D.F., M.W. Strohbach, P.S. Warren, and R.A. Fuller (2014) Living in urban environments: Novel responses to novel challenges in *Avian Urban Ecology* by D. Gil and H. Brumm (eds.) Oxford University Press.
9. **Warren, P. S.** and C. A. Lepczyk. (2012) Beyond the gradient: Insights from new work in the avian ecology of urbanizing lands. Introduction to the volume *Urban Bird Ecology and Conservation* from the *Studies in Avian Biology*, edited series from Cooper Ornithological Society. Brett Sandercock (editor-in-chief). University of California Press
8. Swan, C.M., S.T.A. Pickett, K. Szlavec, **P. Warren**, K.T. Willey. (2011) Biodiversity and community composition in urban ecosystems: coupled human, spatial and metacommunity processes. In *Handbook of Urban Ecology* by Jari Niemela (ed) Oxford University Press.
7. Slavecz, K., **P. S. Warren**, S. T. A. Pickett. (2011) Biodiversity on the Urban Landscape (pp75-101) in *Human Population: Its Influences on Biological Diversity, Ecological Studies 214*. by R.P. Cincotta, L. Gorenflo and D. Mageean (eds) Springer. Heidelberg, Germany.
6. **Warren, P. S.**, S. Harlan, C. Boone, S. B. Lerman, E. Shochat, A. P. Kinzig. (2010) Urban ecology and human social organization. Pages 172-201 in *Urban Ecology* by K. Gaston (ed) *Ecological Reviews* series Cambridge University Press.

5. Fuller, T., S. DeStefano, and **P. Warren**. (2010) Carnivore behavior and ecology, and relationship to urbanization. Pages 13-19 in *Urban Carnivores: Ecology, Conflict, and Conservation* by S.D. Gehrt, S.P.D. Riley, and B.L. Cypher (eds). Johns Hopkins University Press, Baltimore, Maryland.
4. Ahern, J., L. Jennings, B. Fenstermacher, **P. Warren**, N. Charney, S. Jackson, J. R. Mullin, Z. Kotval, S. Brena, S. Civjan, and E. Carr. (2009) Issues and Methods for Transdisciplinary Planning of Combined Wildlife and Pedestrian Highway Crossings. *Proceedings of the Transportation Research Board Annual Meeting 2009* Paper #09-0441
3. Ahern, J., J. R. Mullin, Z. Kotval, E. Carr, **P. Warren**, S. Jackson, S. Brena, S. Civjan, B. Fenstermacher, L. Jennings, M. Bellis, and N. Charney. (2007) Report from the Walden Passage Feasibility Study. Prepared for Federal Highway Administration by Department of Landscape Architecture and Regional Planning, UMass-Amherst.
2. Bellis, M., S. Jackson, C. Griffin, **P. S. Warren**, and A. O. Thompson. (2007) Utilizing a multi-technique, multi-taxa approach to monitoring wildlife passageways on the Bennington Bypass in southern Vermont. *Proceedings of the 2007 International Conference on Ecology and Transportation*. Little Rock, Arkansas.
1. Hope, D., C. Gries, **P. Warren**, M. Katti, G. Stuart, J. Oleson, J. Kaye (2005) How do humans restructure the biodiversity of the Sonoran desert? In: *Connecting Mountain Islands and Desert Seas: Biodiversity and Management of the Madrean Archipelago II*, 2004 May 11-15, Tucson, AZ. USDA Forest Service Proceedings RMRS-P-26: 189-194 (Fort Collins, CO).

#### *Public outreach publications*

- Bocsi, T., R. W. Harper, **P. S. Warren**, and S. DeStefano (2023) "Ecological considerations of establishing oak trees in the urban environment" ISAO Ontario Arborist, Feb-Mar 2023 issue, pp. 20-27.  
Reprinted, October 2024 in UMass Hort Notes -  
<https://ag.umass.edu/landscape/newsletters/hort-notes/hort-notes-2023-vol-3410>
- M. Strohbach, **P. Warren**, A. Hrycyna (2014) "Saturday, April 28th, 1866: Saw the first chimney swallow today" 150 years of bird observation in western Cambridge. *Bird Observer* 42(4):202-2013.
- P. Warren**. (2008) Hazards and Habitat: Personal reflections on what to do for birds in dead trees and limbs, *Citizen Forester*, the online newsletter of the Massachusetts Urban Forestry Program, Sept issue.
- P. Warren. (2008) Hazards and Habitat: Personal reflections on what to do for birds in dead trees and limbs, *The Connecticut Arborist*, the official publication of the Connecticut Tree Protective Association, XIX (III):pp. 2 and 5.

#### **Invited Talks and Symposia**

- 2022 Invited speaker, Purdue Forestry and Natural Resources lecture series, virtual presentation, Dec 9 – Title: Urban Greening for Urban Birds: tradeoffs and context dependencies
- 2022 Keynote speaker for session on "Pollinators and people: Socioeconomic and cultural influences," Protecting Pollinators in Urban Landscapes, October 11, Athens, GA – Title: People, flowers, and pollinators: embracing the complexity of social-ecological interactions in urban ecosystems

- 2020 Invited speaker, Temple University, April 12, 2020, Philadelphia, PA (POSTPONED due to COVID-19)
- 2019 Invited speaker in SESYNC Spring Seminar Series, April 2, 2019, Annapolis, MD  
Invited speaker at Biodiversity of Cities Symposium, University of North Carolina, April 26-27, Chapel Hill, NC  
Invited speaker at symposium on “Re-Envisioning Urban Infrastructure to Address Climate Change”; for panel on “Integrating Ecosystems”, Boston University, Aug 5-6, Boston, MA  
Invited speaker at Ecological Society of America, Louisville, KY in Symposium “New Frontiers of Urban Biodiversity Conservation: International and Interdisciplinary Perspectives,” August 15. Title: “Urban socioeconomic inequality and biodiversity often converge but not always: insights from case studies and a global meta-analysis” **P. Warren**, and 6 co-authors
- 2018 Invited to give the annual Daffodil Lecture of the Commonwealth College at UMass, April 9, 2018; "From a Silent Spring to a Noisy One";  
<https://www.honors.umass.edu/braggingwrites/daffodil-lecture-paige-warren-biodiversity>
- 2017 Invited speaker at International Urban Wildlife Conference, San Diego, CA in symposium session “Dysfunctional urban biodiversity planning: Take home messages for (and from) ecologists and planners/designers,” Jun 7. Title: “Governing for diversity: What is the potential for fostering positive feedback among biodiversity, place attachment, and stewardship in urban green spaces?” **P. Warren**, R. Ryan, B. Bushouse, K. Harper, K. Stinson and C. Clouse  
Invited speaker at Ecological Society of America, Portland, OR in Symposium “20 years of Insights into Social-Ecological Research from the Two Urban LTER Sites,” Aug 10. Title: “The domestication of biodiversity in the city” **P. Warren**, C. Nilon, S. Lerman, H. Bateman, C. Swan  
UMass-Amherst, School of Earth and Sustainability, Lightning Talks series, Mar 29  
Yale Forestry and Environmental Studies seminar series, Apr 26  
University of Maryland, Dept. of Plant Science and Landscape Architecture, Plant Science Lecture Series, Sept 29  
Boston University, Biology Department seminar series, December 4 (*upcoming*)
- 2016 Invited speaker at Urban Biodiversity and Design (URBIO), Panama City, PANAMA, in symposium session “Birds as Urban Thermostats: Pouring Avian Knowledge into the Practice Jar,” October 25. Title: “Urban greening for urban birds: tradeoffs and context dependencies” **P. Warren**, M. Strohbach, S. Lerman, R. Danford, R. Ryan, B. Kane  
Invited speaker at Ecological Society of America, Ft Lauderdale, FL in Symposium “Novel Ecosystems in Cities: Adaptation to Urban Conditions,” August 11. Title: “Anthropogenic resource subsidies and the domestication of urban biota” **P. Warren** and J. Fischer  
McGill Organismal Biology Seminar Series, Biology Dept., March
- 2015 Keynote speaker at International Urban Wildlife Symposium, Chicago, IL (invited as one of 3 keynotes) “The Socio-ecology of Urban Wildlife: Wealth, poverty, and other social drivers of biotic complexity,” May 17  
Invited speaker at Ecological Society of America, Baltimore, MD in Organized Oral Session “The Emergence, Rise, and Future of Urban Ecology in the United States,”

- August 12. Title: "Socioecological linkages in cities and the rise in interdisciplinary research" **P. Warren**, C. Boone, A. Kinzig  
Keynote speaker in a session of the International Conference on Behaviour, Physiology and Genetics of Wildlife, Berlin, GERMANY, Sept 28. Title: "Implications of an anthropocentric lens in urban wildlife ecology" **P.S. Warren** and J.D. Fischer (one of 6 speakers invited to chair sessions at the conference)
- 2014 Invited speaker at CAP LTER Annual Symposium, Tempe, AZ (invited as one of the authors of an upcoming synthesis volume on 17 years of findings from CAP LTER) "Urban Biota and the Humans-as-Natural Lens"  
 SUNY-Environmental School of Forestry, February  
 University of Maine-Orono, Wildlife Ecology seminar series, Mar 31
- 2013 Invited speaker at CAP LTER Annual Symposium, Tempe, AZ (one of 4 invited speakers) "Human Influences on Species Interactions in Urban Communities: Putting CAP LTER in Context"  
 Department of Applied Sciences & Mathematics, ASU Polytechnic, Mesa, AZ, Feb 25.
- 2012 Symposium talk in "Tales from the concrete jungle: understanding and sustaining the Earth's urban biodiversity" Ecological Society of America, Portland, OR.
- 2011 Symposium talk in "Stewardship of Urban Systems 1: Ecosystem Processes and Services in the ULTRA Network," Ecological Society of America, Austin, TX.
- 2010 International Year of Biodiversity 2010, National Autonomous University of Mexico Symposium: "Conserving the biodiversity in a world dominated by humans," Morelia, MEXICO. One of 7 keynote speakers.  
European Conference on Behavioral Biology, Ferrara, ITALY.  
 One of 2 keynote speakers in symposium "Consequences of Urbanization: From behavior to physiology"  
URBIO (Urban Biodiversity and Design), Nagoya, JAPAN.  
 Speaker in symposium "Comparative Studies of Cities: Links to Urban Biodiversity and Urban Design"  
2010 MillionTreesNYC, Green Infrastructure, and Urban Ecology Research Symposium, New York, NY. One of 7 invited speakers.  
 OEB graduate program seminar series, UMass-Amherst, MA.  
 Dept Landscape Architecture and Regional Planning, UMass-Amherst, MA.  
 Biology Dept, Trinity University, Hartford, CT.  
 Biology Dept, Texas Tech University, Lubbock, TX.
- 2008 Symposium on Altered Community Structure and Trophic Interactions in Urban Ecosystems, Baltimore Ecosystem Study, Baltimore, MD.
- 2007 Biology Dept, Roger Williams University, Bristol, RI.  
 Dept Forestry and Environmental Sciences, North Carolina State Univ., Raleigh, NC.
- 2006 Fish & Wildlife Service-USGS-UMass-Amherst joint seminar series lecture, USFWS office, Amherst, MA.
- 2005 Ecology, Evolution and Behavior seminar series, Boston University, Boston, MA.  
 Department of Economics, Environmental Working Group, UMass-Amherst, MA.  
 Harvard Forest LTER, Petersham, MA.
- 2004 Animal Behavior Society. Oaxaca, Mexico.  
 Speaker in symposium "Behavior and Environment"
- 2003 Institute for Ecology, University of Georgia 2003.

- 2002 Department of Entomology, VPI&SU.  
Mountain Lake Biological Station.
- 1998 Texas Ornithological Society, Kerrville, TX.
- 1997 Southwest Wings Birding Festival, Sierra Vista, AZ.

**Organized workshops and conference symposia**

- 2023 “SEEP” Integrating society, ecology, evolution, and plasticity to advance urban evolutionary ecology (NSF funded workshop), May 22-23, Tempe, AZ; Organizers: K. McGraw and **P. Warren** with S. Diamond, C. Johnson, R. Martin, C. Schell
- 2022 “SEEP” Integrating society, ecology, evolution, and plasticity to advance urban evolutionary ecology (NSF funded workshop), Dec 14, 3-hour virtual workshop; Organizers: K. McGraw and **P. Warren** with S. Diamond, C. Johnson, R. Martin, C. Schell
- 2022 “SEEP” Integrating society, ecology, evolution, and plasticity to advance urban evolutionary ecology (NSF funded workshop), May 20-21, Tempe, AZ; Organizers: K. McGraw and **P. Warren** with S. Diamond, C. Johnson, R. Martin, C. Schell
- 2020 “Heat, food, and water: implications for physiology, ecology, and human well-being,” a workshop to build research synthesis funded by the Central Arizona Phoenix Long Term Ecological Research (CAP LTER), Tempe, AZ, Jan 16, Tempe, AZ Organizers: **P. Warren** and K. McGraw
- 2016 “Acoustic Landscapes: Living in a Noisy World,” at Northeast Natural History Conference (NENHC), April 23, Springfield, MA Organizers: A. Grade and **P. Warren**
- 2015 “The effects of anthropogenic food on urban wildlife,” symposium at the International Urban Wildlife Conference, May 17-20, Chicago, IL Organizers: J.D. Fischer and **P.S. Warren**
- 2014 “Urban Ecology: Reconciliation Ecology and Vertebrate Conservation in Suburbanizing Landscapes I and II”– Northeast Natural History Conference, Apr 7-8, Springfield, MA Organizers: **P. Warren** and D. King
- 2013 “The Role of Urban Green Spaces in Maintaining Biodiversity and Ecosystem Services” International Congress for Conservation Biology (ICCB), Baltimore, MD (7/21-25/13) Organizers: C. A. Lepczyk, M. Aronson, **P. Warren**, M. Katti, and C. Nilon
- 2013 “Community Engagement in Urban Greening for Healthy and Equitable Neighborhoods: Insights from the Boston Metro Area Urban Long Term Research Area project (BMA ULTRA-Ex)” Environmental Design Research Association, EDRA 44 Conference, Providence, RI. (5/29-6/1) Organizers: C. Cheng, R.L. Ryan, R.S. Danford, **P. Warren**, C. Nicolson, K. Greaves, K. Foo
- 2012 “Tales from the concrete jungle: understanding and sustaining the Earth’s urban biodiversity” Ecological Society of America, Portland, OR. (*Only 24 of 61 proposed symposia were accepted for this meeting.*) Organizers: M. Aronson with **P. Warren** and 7 members of NCEAS working group
- 2012 “Green space as a key feature in the urban landscape - from theory to praxis” US-IALE, Newport, RI. Organizers: M. Strohbach, E. Lorrance, **P. Warren**, E. Strauss
- 2011 “Stewardship of Urban Systems 2: Socio-ecology, Governance, and Equity in the ULTRA Network,” Ecological Society of America, Austin, TX.

- Organizers: **P. Warren**, G. Hess, M. Katti
- 2011 “Stewardship of Urban Systems 1: Ecosystem Processes and Services in the ULTRA Network,” Ecological Society of America, Austin, TX.
- Organizers: G. Hess, **P. Warren**, M. Katti
- 2009 “Conservation Value of Residential Landscapes” Urban Wildlife Ecology and Management conference, Amherst, MA.
- Organizers: S. Lerman and **P. Warren**
- 2006 “New Directions in Urban Bird Conservation” Oct 2006. North American Ornithological Congress, Veracruz, Mexico. *Approved through a competitive selection process.*
- Organizers: C. Lepczyk and **P. Warren**
- 2006 “The urban food web: how humans alter the state and dynamics of trophic interactions” Ecological Society of America, Memphis, TN. *Approved through a competitive selection process.*
- Organizers: **P. Warren**, C. Tripler, C. Lepczyk, and J. Walker
- 2006 “The evolution of sensory and signaling systems” Aug 2006. Animal Behavior Society, Snowbird, UT. *Endorsed and funded by the ABS Executive Committee*
- Organizers: T. Wright, J. Boughman, and **P. Warren**
- 2004 “Urban Community Ecology: Does ecology need new tools?” Tempe, AZ. *Supported by NSF Biocomplexity Incubation grant to CAP LTER*
- Organizer: **P. Warren**
- 2003 “Bird communities in changing ecosystems: understanding human impacts in a broader ecological and socioeconomic framework,” LTER All Scientist’s Meeting, Seattle, WA.
- Organizers: M. Katti & **P. Warren**
- 2002 “Urban Parks: Cross-site Comparisons” Tempe, AZ. *Supported by NSF Biocomplexity Incubation grant to CAP LTER*
- Organizer: **P. Warren**

### Recent Conference Presentations (\* Published abstracts; † Online publication)

*Presented by lead author unless otherwise indicated.*

- \*Moreno, S., S. B. Lerman, **P. Warren**. 2022. Building trust in citizen science: understanding motivations for participating and exploring methods for improving data quality Ecological Society of America, Aug 14-19, Montreal, Canada. Poster presentation.
- \*Hall, S., R. Andrade, J. Brown, H. Bateman, S. B. Lerman, **P. Warren**, K. Larson. 2022. Risk perceptions of urban wildlife vary by animal functional group, geography, and characteristics of people. Aug 14-19, Monreal, Canada. Poster presentation.
- \*Thomas, E., S. Moreno, S. B. Lerman, **P. S. Warren**. 2022. Anthropogenic noise and bird diversity along an urbanization gradient in western Massachusetts. Ecological Society of America, Aug 14-19, Montreal, Canada. Poster presentation.
- Fitch, G., **P. Warren**, R. Irwin, and L. Adler. 2022. Residential subdivisions as a laboratory for understanding socioeconomic and ecological drivers of plant-insect interactions in a suburban landscape. presented at workshop: SEEP - Integrating society, ecology, evolution, and plasticity to advance urban evolutionary ecology May 20-21, Tempe, Arizona. Poster presentation.
- \*S. Moreno, S.B. Lerman, **P.S. Warren**, B. Butler, B. Evans, R. Reitsma, P. Mara. 2021. Motivations and Barriers: What Brings People to Citizen Science. Ecological Society of America. Aug 6; Virtual conference. Symposium Session.



- \*Riand, Fanny, S. Moreno and **P. S. Warren**, A. M. Grade, S. B. Lerman. 2021. Correlations between free-ranging domestic cat activity and land cover type across an urban gradient in western Massachusetts. Ecological Society of America, Aug 2-6; Virtual Conference
- \*Grade, A., N. Chan, P. Gajbhiye, and **P. Warren**. 2021. Where we eBird Matters: Sample Selection Bias in eBird Checklist Locations by Race and Income in the Boston Metropolitan Area. Northeast Natural History Conference/Wilson Ornithological Society conference, Apr 15-18; Virtual conference
- \*Lerman, S. B., M. Katti, E. Shochat, and **P.S. Warren**. 2020. An historical perspective of urban bird research: going back to get to the future, North American Ornithological Conference (NAOC), Aug 11-12; Virtual Conference
- \*S. Moreno, S.B. Lerman, **P.S. Warren**, B. Butler, B. Evans, R. Reitsma, P. Mara. 2020. Motivations and Barriers: What Brings People to Citizen Science. Northeast Natural History, Wilson Ornithological Society, and Association of Field Ornithologists Conference. Virtual meeting due to COVID-19. Urban Ecology and Environmental Justice Panelist. Symposium Session. Mid-April.
- \*Brown, J.A., K. L. Larson, R. Andrade, H. L. Bateman, S. J. Hall, S. B. Lerman, **P. S. Warren**. 2020. Linking Perceptions of Ecosystem Services and Disservices with Landscape and Biotic and Features, Ecological Society of America, Aug 3-6; Virtual Conference
- \*Childers, D. L., R. Andrade, K. L. Larson, S. B. Lerman, and **P. S. Warren**. 2020. Linking Urban Ecological Infrastructure (UEI) and its services to the perceptions and socioeconomic status of, and environmental management by, urban residents, Ecological Society of America, Aug 3-6; Virtual Conference
- \*Larson, K., R. Andrade, M. Wheeler, S. Hall, J. Padullés Cubino, **P. Warren**. 2020. Challenges and opportunities for integrated and multi-scalar social-ecological research, IALE (poster presentation), May 13; Virtual Conference
- Grade, A.M., **P.S. Warren**, and S.B. Lerman. 2020. Do human-provided resources mediate the effects of temperature on bird abundances in residential neighborhoods? 22nd Central Arizona-Phoenix Long-Term Ecological Research (CAP LTER) All Scientists Meeting and Poster Symposium. Scottsdale, AZ. Poster Presentation.
- Brown, J., A. Basile, H. Bateman, S. Lerman, P. Warren, K. Sweazea. 2020. No Fry Zones: Birds Response to Restaurant Distributions in Phoenix Metropolitan Area 22nd Central Arizona-Phoenix Long-Term Ecological Research (CAP LTER) All Scientists Meeting and Poster Symposium. Scottsdale, AZ. Poster Presentation.
- Grade, A.M., **P.S. Warren**, and S.B. Lerman. 2019. Do anthropogenic resources buffer avian species against environmental stressors in residential landscapes?? 21st Central Arizona-Phoenix Long-Term Ecological Research (CAP LTER) All Scientists Meeting and Poster Symposium. Scottsdale, AZ. Poster Presentation.
- Grade, A., S. Lerman, **P. Warren**. 2019. Patterns of Mammal Diversity and Occupancy Across a Suburban Gradient. Northeast Natural History Conference (NENHC), Springfield, MA.
- \*Grade, A. M., P. S. Warren, S. B. Lerman. 2019. Fear of Predators Influences Nestling Condition Across a Suburbanization Gradient. American Ornithological Society (137th Stated Meeting), Anchorage, AK. Oral Presentation.
- \*Straley, K. M., P. S. Warren, and D. I. King. 2019. Parental Behaviors Mediate the Effects of Bird Blow Fly Ectoparasitism on Nestling Wood Thrushes in Suburban Forests. American Ornithological Society (137th Stated Meeting), Anchorage, AK. Oral Presentation.

- \*Allen, D. C., H. L. Bateman, P. S. Warren. 2019. Long-Term Data Show Shifts in Urban Bird Communities by Land Use Type in Arizona. American Ornithological Society (137th Stated Meeting), Anchorage, AK. Oral Presentation.
- Handte-Reinecker, A., K. Straley, and **P. Warren**. 2019. Comparing the Trophic Overlap of Wood Thrush (*Hylocichla mustelina*) Nestlings in Continuous vs. Fragmented Forests Using Stable Isotopes. Northeast Natural History Conference (NENHC), Springfield, MA. Poster Presentation.
- Dookram, B., A. Grade, and P. Warren. 2019. Documenting a Poorly Understood Alarm Call in the Northern House Wren. Massachusetts Undergraduate Research Conference (URC), Amherst, MA. Poster Presentation.
- Keohane, K. and P. Warren. 2019. Grassland bird nesting success in relation to rainfall patterns in central Montana. Massachusetts Undergraduate Research Conference (URC), Amherst, MA. Poster Presentation.
- Kuras, E., P. Warren, M. Aronson, S. Cilliers, M. Goddard, C. Nilon, R. Winkler, and J. Zinda. J. 2018. Global Patterns of Urban Biodiversity and Socioeconomic Inequality. International Network for Urban Biodiversity and Design (URBIO). Cape Town, South Africa. Oral Presentation.
- Vilensky, J., A.M. Grade, P.S. Warren, and S.B. Lerman. 2018. Impacts of habitat on the success and use of nest boxes by House Wrens. Café Summer Scholars Program Poster Session, University of Massachusetts Amherst. Amherst, MA. Poster Session.
- Zhang, Y., A.M. Grade, P.S. Warren, and S.B. Lerman. 2018. Predation risk affects house wren parent visits. Summer Pre-College Research Intensive Program Poster Session, University of Massachusetts Amherst. Amherst, MA. Poster Presentation.
- Seymour, C.A., K.M. Straley, A.M. Grade, S.B. Lerman, and P.S. Warren. 2018. Parasites and plastic waste: The effects of anthropogenic nesting materials and ectoparasite loads on House Wren (*Troglodytes aedon*) nestlings. Massachusetts Undergraduate Research Conference. University of Massachusetts Amherst. Amherst, MA. Poster Presentation.
- Grade, A.M. 2018. Landscapes of fear: Birds navigate parenting in a frightening world. University of Massachusetts Three Minute Thesis Competition Semifinals. Amherst, MA. Oral Presentation.
- Grade, A.M., Warren P.S., Lerman S.B. 2018. Non-lethal effects of predation: An experimental test of House Wren nesting across an urban-to-rural gradient. Department of Environmental Conservation Graduate Student Symposium. Amherst, MA. Oral Presentation.
- Kuras, E., C. Schweik, and P. Warren. 2018. Connecting to nature in and out of school. Department of Environmental Conservation Graduate Student Symposium. Amherst, MA. Oral Presentation. 1/26-27/2018
- Kuras, E., C. Schweik, and P. Warren. 2018. Connecting to nature in and out of school. Life Sciences Graduate Research Symposium (LSGRS). Amherst, MA. Oral Presentation. 11/17/2017
- Kuras, E., M. Keating-Lessard, P. Terkelsen, and C. Orellana. Identifying Barriers, Imagining Solutions: Using research to improve urban EE. Massachusetts Environmental Education Society (MEES). Worcester, MA. Oral Presentation. 3/29/2018.
- Grade AM, Lerman SB, **Warren PS**. 2018. Non-lethal Effects of Predation: House Wren Nesting Across an Urban Gradient. 55th Annual Conference of the Animal Behavior Society. Milwaukee, WI. Oral Presentation.

- Grade AM, **Warren PS**, Lerman SB. 2018. Non-lethal effects of predation: An experimental test of backyard-nesting House Wrens across an urban-to-rural gradient in western Massachusetts. North American Congress for Conservation Biology. Toronto, Ontario, CA. Oral Presentation, Student Presentation Award Finalist.
- Grade AM, **Warren PS**, Lerman SB. 2018. Non-lethal Effects of Predation: An Experimental Test of Backyard-nesting House Wrens Across an Urban-to-Rural Gradient. Northeast Natural History Conference. Burlington, VT. Oral Presentation.(4/14/18)
- Grade AM, Lerman SB, **Warren PS**. 2018. Non-lethal effects of predation pressure on backyard-nesting House Wrens in Western Mass. Pioneer Valley Ecological Research and Management Symposium. Arcadia Wildlife Sanctuary, Easthampton, MA. Oral Presentation. (4/7/18)
- Lerman, S.B., B. Kane, M. Strohbach, **P. Warren**, K. H. Nislow, D. J. Nowak, S. DeStefano, D. I. King, and D. T. Jones-Farrand. "The birds and the trees: Managing the urban forest for wildlife." The 6th Annual Trees Matter Symposium, Montgomery Parks Department, Silver Spring, MD (11/1/2017)
- Klein, M., D. King, **P. Warren** "Nesting success of Urban and Rural Wood Thrush: Testing the Predation Paradox" International Urban Wildlife Conference, San Diego, CA (6/4-7/17)
- \*Lerman, S., **P. Warren**, R. Burnette, H. Bateman, K. Larson "Tracking urban bird community change within a socioecological framework in Phoenix, Arizona" North American Ornithological Congress (NAOC), Washington, DC (8/16-20/16)
- \*Banville, M., H. Bateman, S. Earl, P. Warren "A decadal change in an urban riparian bird community" Arizona Field Ornithologists Annual Meeting, Show Low, AZ (9/18-20/15)
- \*Aronson, M. C. Nilon, C. Lepczyk, T. Parker, **P. Warren** "UrBioNet: A global network for urban biodiversity research and practice" (poster), Ecological Society of America, Baltimore, MD (08/12/15)
- \*Fischer, J.D., **P.S. Warren**, J. Miller "Anthro-trophic control: anthropogenic food shapes urban trophic dynamics and community structure" International Urban Wildlife Conference, Chicago, IL (05/18/15)
- Yakola, K., S. Kress, P. Shannon, **P. Warren** "Long-term Changes in Diets of Three Sterna Species in Response to Changing Environmental Conditions in the Gulf of Maine" Northeast Natural History Conference, Springfield, MA (04/18-20/2015)
- \*Banville, M., H. Bateman, S. Earl, P. Warren, "Urbanization contributes to simplified riparian bird communities" CAP LTER Annual Symposium, Tempe, AZ (01/16/2015)
- 4 presentations at the URBIO (Urban Biodiversity and Design) conference, Incheon, S. Korea (10/9-12/2014):
- P. Warren**, M. Goddard, S. Cilliers, I. MacGregor-Fors "Urban biodiversity and socio-ecological processes"
- Nilon, C.H, M. F. J. Aronson, C. A. Lepczyk, T. S. Parker, **P. S. Warren** "The Research coordination network process and the new Urbionet RCN"
- Aronson, M. F. J., C. H. Nilon, C. A. Lepczyk, T. S. Parker, and **P. S. Warren** "Filters that shape urban biodiversity"
- Zipperer, W.C., M.F. J. Aronson, C.H. Nilon, F.A. LaSorte, C.A. Lepczyk, **P.S. Warren**, C.P. Herzog, and T. Parker, Data availability for biodiversity research and application: an open discussion
- Warren, P.** "Human Influences on Species Interactions in Urban Communities: New England in a Global Context" New England Natural History Conference (04/07/14)

- Klein, M., D. King, and **P. Warren**, “Testing the Predation Paradox in Western Massachusetts” New England Natural History Conference (04/07/14)
- Nilon, C., M. Aronson, M. A. Goddard, F. A. LaSorte, M. Katti, C. A. Lepczyk, I. MacGregor-Fors, **P. S. Warren**, M. Hedblom, J.L. Kooijmans, U. Mörtberg “Cities as hotspots for bird conservation” The Wildlife Society, Milwaukee, WI (10/5-10/13)
- Strohbach, M., A. Hrycyna, **P. Warren** “150 years of changes in bird life in Cambridge, Massachusetts: 1860 - 2012” Society for Urban Ecology, Berlin, GERMANY (7/25-27/13)
- Arnold, E., M. Strohbach, **P. Warren** “Allergenic pollen production by street trees in Boston, Massachusetts” Society for Urban Ecology, Berlin, GERMANY (7/25-27/13)
- C. Cheng, E. Brabec, R. Ryan, Y. E. Yang, C. Nicolson, **P. Warren** “Future Flooding Risk Assessment under Growth Scenarios and Climate Change Impacts for the Charles River Watershed in the Boston Metropolitan Area” Joint Association of European Schools of Planning (AESOP) and The Association of Collegiate Schools of Planning (ACSP) Annual Congress, Dublin, IRELAND (6/18-22/13)
- King, D., S. Schlossberg, S. DeStefano, **P. Warren**, M. Hartley “Wood Thrush Nesting Success and Postfledging Survival in Suburban and Forested Landscapes” Northeast Fish and Wildlife Conference (NEAFWA) Portland, ME (4/13-15/13)
- R. L. Ryan, J. Buxton, R. Danford, E. Schaeffer, and **P. Warren**. “Promoting healthy communities through urban greening in New England’s inner city neighborhoods” Env. Design Research Assoc., EDRA 44 Conference, Providence, RI. (5/29-6/1)
- R. Danford, C. Cheng, C. Nicolson, R. Ryan, **P. Warren**. “Continued inequity for urban ecosystem services: what will it take to achieve equitable tree canopy distribution in the City of Boston?” ” Env. Design Research Assoc., EDRA 44 Conference, Providence, RI. (5/29-6/1)
- Ryan, R.L., **Warren, P.S.**, Nicolson, C, Cheng, C., Danford, R., and Strohbach, M. “Scenario planning for the Boston metropolitan region: Exploring environmental and social implications of alternative futures” 4th Fábos Conference on Landscape and Greenway Planning 2013: Pathways to Sustainability, Amherst, MA (4/12/13).
- URBIO 2012, Bombay, India. “Cities as global biodiversity hotspots” (invited talk, M. Katti presenter) (Oct 8-12, 2012)
- 5 presentations at Ecological Society of America 2012, Portland, OR, including 3 in symposia:
- \***Warren, PS**, SB Lerman, CH Nilon, M Katti, M Strohbach, R Danford, LS Adler, and RE Irwin. Human influences on species interactions in urban communities: Insights from the LTER and ULTRA-Ex networks. Presentation in Symposium#15 “Tales from the Concrete Jungle: Understanding and Sustaining the Earth’s Urban Biodiversity From Local to Global Scales” Aug 8, 2012
  - \*LaSorte, F., MFJ Aronson, CH Nilon, M Katti, MA Goddard, C Lepczyk, **PS Warren**, and NSG Williams. Global patterns and correlates of urban biodiversity. Presentation in Symposium#15 “Tales from the Concrete Jungle: Understanding and Sustaining the Earth’s Urban Biodiversity From Local to Global Scales” Aug 8, 2012
  - \*Irwin, RE, LS Adler, **PS Warren**, AL Carper. Natural selection in urban environments: The role of plant-animal interactions. Presentation in Symposium#7 “Pollination Services In a Changing World: Ecological and Evolutionary Implications” Aug 7, 2012
  - \*Carper, AL, RE Irwin, LS Adler, **PS Warren**. Pollination in suburban landscapes: Increased bee abundance does not benefit native plants. Aug 8, 2012

\*Charney, ND and **PS Warren**. Evaluating expert opinion and spatial scale in an amphibian model. Aug 9, 2012

#### CAP LTER Annual Symposium

Oral presentation: H. Bateman and P. Warren

Poster: M. Aronson, M. Katti, F.A. La Sorte, C. H. Nilon, P. S. Warren, M. Goddard, C. Lepczyk, N.S.G. Williams

Ecological Society of America 2011, Austin, TX Two presentations:

**\*Paper: P. Warren, R. Ryan, C. Nicolson, C. Polsky, E. Strauss, and M. Strohbach in symposium on urban stewardship**

**\*Paper**: S. Lerman, P. Warren, and E. Shochat

Entomological Society of America 2010, San Diego, CA

**\*Paper**: A. L. Carper, R. E. Irwin, L. S. Adler, P. S. Warren (presented by Carper)

Ecological Society of America 2009, Albuquerque, NM. Two presentations:

**\*Paper**: P. Warren, C. Nilon, S. Lerman

**\*Paper**: S. Lerman, P. Warren

**\*Paper**: L. Adler, R. Irwin, P. Warren

Urban Wildlife Ecology & Management conference 2009, Amherst, MA. Four presentations:

**\*Paper**: P. Warren, C. Nilon, S. Lerman

**\*Paper: S. Lerman and P. Warren; in symposium on residential landscapes**

**\*Paper**: N. Charney and P. Warren

**\*Poster**: J. Zepko and P. Warren

CAP LTER 11<sup>th</sup> Annual Symp. 2009, Tempe, AZ,

<sup>†</sup> **Poster**: S. Lerman and P. Warren

### **TEACHING AND MENTORING**

#### **Postdoctoral associates**

Michael Strohbach (2011-2012) *Project*: Urban greening, biodiversity and ecosystem services/disservices

*Current position*: Research Scholar, Department Landscape Ecology and Environmental Systems Analysis, Braunschweig, Germany

#### **Current graduate students**

Katherine Straley (PhD, OEB, 2013-ongoing) *Dissertation*: Changes in the neighborhood: Suburban food availability and behavioral plasticity in nesting songbirds

Sebastian Moreno (PhD, ECO, 2019-ongoing) *Dissertation*: Using Community Science to Assess the Ecological Impacts of Urbanization on Birds

Nicole Yunes Perez (MS, ECO 2022-ongoing) *Thesis*: Changes in Chimney Swift presence and abundance in Springfield, Massachusetts

Served/serving on committees for 5 PhD and 10 MS students at UMass-Amherst

Served/serving on committees for 6 PhD and 1 MS students at other institutions

#### **Completed graduate students**

Melanie Klein (PhD, ECo, 2012-2023) *Dissertation*: Testing the predation paradox in suburban forest fragments in western Massachusetts

- Aaron Grade (PhD, OEB, 2015-2020) *Dissertation*: How do nonlethal effects of predators interact with urbanization to alter nesting success in House Wrens?  
*Current position*: postdoctoral associate, Clark University; AAAS Science and Policy Fellow with Dept of Energy, beginning September 2021
- Rachel Danford (PhD, 2016) *Dissertation*: Characterizing the human-environment system: Environmentally relevant decision-making and green space access at different scales.  
*Current position*: Outdoor and Environmental Educator, Discovery Museum, Acton
- Susannah Lerman (PhD, 2011) *Dissertation*: Impacts of urbanization on bird community structure along an urban rural gradient within the CAP-LTER study area in Phoenix, AZ.  
*Current position*: Research Scientist, Northern Research Station. Adjunct Assistant Professor, UMass-Amherst
- Noah Charney (PhD, 2011) *Dissertation*: Ecology and conservation of pond-breeding salamanders.  
*Current position*: Assistant Professor, University of Maine, Dept Wildlife, Fisheries, and Conservation Biology
- Evan Kuras (MS, ECo, 2015-2018) *Thesis*: How young people in cities experience nature  
*Current position*: Program Manager for the Urban Program, Boston University
- Kyle Baron (non-thesis MS, ECO, 2017) *Project*: Preserving Princeton: A Guide to Land Conservation  
*Current position*: Education Associate, Boston Museum of Science
- Evan Dalton (MS, OEB, 2014) *Thesis*: Effects of suburbanization on nest parasites and nest defense behavior in Hermit Thrushes. *Current position*: environmental educator at Manomet Bird Observatory
- Janice Zepko (non-thesis MS, 2011) *Project*: Effects of suburbanization and climate change on range expansion of the Red-bellied Woodpecker (*Melanerpes carolinus*). *Current position*: Research technician at UMass-Amherst
- Mark Bellis (co-advised, MS, 2005-2008) *Thesis*: Evaluating the effectiveness of wildlife passage structures on the Bennington Bypass, Vermont. *Current position*: Biologist, US Fish and Wildlife Service, Flagstaff, Arizona

### **Undergraduate theses**

- Kristin Lamonde '06 (UMass Honors thesis)  
 Colin Lentz '08 (Hampshire College)  
 Danielle Bushey '10 (UMass Honors thesis)  
 Autumn Amici '11 (committee member, University of Vermont Honors thesis)  
 Kim Fitzgerald '11 (UMass Honors from Commonwealth College)  
 Lauren Lynch '13 (UMass Honors from Commonwealth College)  
 Andrea Grossman '15 (UMass Honors from Commonwealth College)  
 Mark Kerstens '16 (UMass Honors from Commonwealth College)  
 Kallin Lang '17 (UMass Honors from Commonwealth College)  
 Morgan O'Connor '17 (UMass Honors from Commonwealth College)  
 Margaret Upham '17 (UMass departmental senior thesis, Dept Env Conservation)  
 Jodie Berezin '18 (UMass departmental senior thesis, Dept Env Conservation)  
 Christina Seymour '18 (UMass Honors from Commonwealth College, iCons program)  
 Anna Handte-Reinecker '19 (UMass Honors from Commonwealth College)  
 Kaleigh Keohane '19 (UMass Honors from Commonwealth College)

Morgan Bowler '20 (UMass Honors from Commonwealth College)  
Jordan O'Hare Gibson '23 (UMass Honors from Commonwealth College)

*Mentored 51 undergraduate researchers at UMass, 12 of whom were members of underrepresented groups in science, 18 were women, and 3 adult students.*

## Courses

Course name (credits, student enrollment)

Wildlife Habitat Management, Fall 2019 (5cr, 39)	UMass-Amherst
Conservation Biology (graduate), Spring 2019 (3cr, 13)	UMass-Amherst
Wildlife Habitat Management, Fall 2018 (5cr, 36)	UMass-Amherst
Urban Ecology, Evolution, and Behavior (graduate), Spring 2018 (3cr, 6)	UMass-Amherst
Wildlife Habitat Management, Fall 2017 (5cr, 43)	UMass-Amherst
Honors seminar "Living in the City", Spring 2017 (1cr, 15)	UMass-Amherst
Conservation Biology (graduate), Spring 2017 (3cr, 22)	UMass-Amherst
Wildlife Habitat Management, Fall 2016 (5cr, 38)	UMass-Amherst
Urban Ecology, Evolution, and Behavior (graduate), Spring 2016 (3cr, 16)	UMass-Amherst
Wildlife Habitat Management, Fall 2015 (5cr, 45)	UMass-Amherst
Honors seminar "Living in the City", Spring 2015 (1cr, 12)	UMass-Amherst
Conservation Biology (graduate), Spring 2015 (1cr, 8)	UMass-Amherst
Wildlife Habitat Management, Fall 2014 (5cr, 36)	UMass-Amherst
Urban Wildlife Ecology & Management, Spring 2014 (3cr, 10)	UMass-Amherst
Wildlife Habitat Management, Fall 2013 (5cr, 45)	UMass-Amherst
Urban Ecology, Evolution, and Behavior (graduate), Spring 2013 (3cr, 7)	Arizona State U
Conservation Biology (graduate course), Spring 2012 (3cr, 8)	UMass-Amherst
Field Research Methods for Undergraduates, Spring 2011 (1cr, 10)	UMass-Amherst
Field Research Methods for Undergraduates, Spring 2011 (3cr, 10)	UMass-Amherst
Environment and Society survey course, Fall 2010 (3cr, 212)	UMass-Amherst
Honors Colloquium on Environment & Society, Fall 2010 (1cr, 8)	UMass-Amherst
Field Research Methods for Undergraduates, Spring 2010 (3cr, 8)	UMass-Amherst
Environment and Society survey course Fall 2009 (3cr, 212)	UMass-Amherst
Urban Wildlife Ecology & Management & Lab, Instructor Fall 2009 (4cr, 3)	UMass-Amherst
Field Research Methods for Undergraduates, Spring 2009 (2cr, 12)	UMass-Amherst
Environment and Society survey course Fall 2008 (3cr, 215)	UMass-Amherst
Readings in Conservation Biology, Instructor Fall 2008 (1cr, 7)	UMass-Amherst
Ecosystem Management Project, Instructor Spring 2008 (2cr, 8)	UMass-Amherst
Readings in Conservation Biology, Instructor Spring 2008 (1cr, 7)	UMass-Amherst
Readings in Conservation Biology, Instructor Fall 2007 (1cr, 5)	UMass-Amherst
Introduction to Wildlife Management, co-Instructor Spring 2007 (3cr, 157)	UMass-Amherst
Urban Wildlife Ecology & Management & Lab, Instructor Fall 2006 (4cr, 9)	UMass-Amherst
Urban Wildlife Ecology & Management & Lab, Instructor Fall 2005 (4cr, 8)	UMass-Amherst
Seminar, Organismal & Evolutionary Biology, co-Instructor, Fall 2005 (informal, no credits, ~15 students attended)	UMass-Amherst
Honors Biology, Instructor. Fall 2001 (3cr, ~25)	Virginia Tech
Animal Communication, Assistant Instructor: Spring 1996, 1999, and 2000 (4cr, ~20)	UT Austin

## Institution

[illegible]



Animal Communication, design of laboratory course and manual: Fall 99	UT Austin
Ecology and Evolution, Assistant Instructor: Fall 98 (3cr, 120 total, ~30 each in 2 of 4 discussion sessions)	UT Austin
Invertebrate Zoology, Teaching Assistant: Fall 95 (4cr, ~30)	UT Austin

### **Selected guest lectures & workshop presentations**

Guest lecture UMass - Wildlife Habitat Management, Fall 2020  
 3 Workshop presentations on Inclusion, Diversity and Equity for the CNS and Engineering Teaching Fellows, UMass (August of 2017, 2018, 2019)  
 Co-led Diversity Lunch workshop for UMass Center for Teaching and Learning (Spring 2019)  
 “Small Changes – Big Impact: Interventions for Cultivating Diversity-Positive Classes That Any Instructor Can Do”  
 Guest lecture UMass – 2 courses in Landscape Architecture and Regional Planning, Fall 2019  
 Guest lecture UMass BioTap program, Spring 2018  
 Guest lecture Boston University, Urban Ecology course, Spring 2018  
 Guest lectures (2) in GEOG 222 (Why global change matters), Clark University, Spring 2014  
 Guest field trip and lecture in BIO 497EM (Experimental Methods in Ecology), Spring 2014  
 Guest lecture in distributed Urban Ecology course (Boston University and North Carolina State University), Fall 2013  
 Lecturer in graduate course in Ecology (OEB graduate program, UMass), Fall 2010  
 Panelist at CAP LTER symposium, roundtable discussion of sustainability, January 2008  
 Speaker in Dept NRC seminar series, April 2008  
 Guest lecturer on wildlife management and urbanization, NRC 100, Nov 15-29, 2007 (4 lectures).  
 Guest speaker on sustainability panel and reviewer for student projects in joint Architecture / Landscape Architecture Studio - ArchDes 403/LandArch 601, Sept 12 & Oct 14, 2007.  
 Guest lecturer in graduate course “Cities and Natural Process”, Yale University, New Haven, CT. Nov 2005.  
 Guest lectures in total of 8 courses and 3 departments at UMass-Amherst (2005-2012). *Dept. Environmental Conservation*: Urban Forestry, Wildlife Habitat Management, Ecosystem Management, Environment and Society, Environmental Science Freshman Seminar. *Dept. Landscape Architecture & Regional Planning*: Site Planning for Housing (2x), Sustainable Development studio course. *Dept Plant Soil and Insect Sciences*: Urban Environment & Plant Growth (2x)

### **SERVICE**

#### **University Service**

Chair, ECo/OEB joint task force on graduate student retention/recruitment (2020-2021)  
 Member, two search committees for Assistant Unit Leader positions, USFWS cooperative research unit, UMass (2020)  
 Chair, TA workload working group for CNS graduate program directors (2018-2020)  
 Chair, ECo Department Workplace Climate and Diversity Committee (Spring 2018)  
 Member, ECo Department Workplace Climate and Diversity Committee (September 2018-2020)  
 Program Leader & Grad Program Director for OEB (Organismic & Evolutionary Biology) graduate program (2018-2020)  
 Chair, Graduate Operations Committee, OEB grad program & Associate Grad Program Director (2015-ongoing); Member of Graduate Operations Committee (2013-2018)

Chair, Personnel Committee, Dept ECo (2015-2016); Member (2009-2010; 2013-2016)  
 Chair, TA Allocation Committee, Dept ECo (2015-2017)  
 Member, Dept ECo seminar committee (2013-2017)  
 Concentration advisor, Wildlife Ecology & Conservation concentration for majors in Natural Resource Conservation (2010-ongoing; *on hiatus academic year 2012-2013*)  
 Member, Graduate Operations Committee, OEB grad program (2013-ongoing)  
 Member, search committee tenure track position in Population and Statistical Ecology, (2015)  
 Member, search committee Junior Year Writing Instructor for College of Natural Sciences (2014)  
 Member, Environmental Policy, tenure track position search committee (2010)  
 Chair, committee tasked with defining Environmental Policy position (2009)  
 Member, Diversity and Social Justice Committee, College of NRE (2008-2009)  
 Member, OEB Steering committee (2007-ongoing)  
 Member, Seminar committee (2006-2012), Dept OEB  
 Member, Search committee for Sustainable Forest Management Fellow (2006-2007), Dept NRC  
 Member, Search committee for Darwin Fellow (2005-2006), Dept OEB

### Professional Service

Co-chair, Adapting to City Life Integrated Research Theme, Central Arizona Phoenix LTER (2015-ongoing); co-leading meetings and writing text for the CAP LTER renewal proposal  
 Co-chair, Humans and Biodiversity Integrated Project Area, Central Arizona Phoenix LTER (2011-2014)  
 Chair, Urban Ecosystems Ecology section, Ecological Society of America (2008-2010)  
 Vice Chair, Urban Ecosystems Ecology section, Ecological Society of America (2006-2008)  
 Associate Editor: *BioScience* (2020-ongoing); *Ecosphere* (2010-2021); *Urban Naturalist* (2014-2020); *Cities and the Environment*. (2005-2012); *Urban Ecosystems* (2006-2011)  
 Member, Editorial Board: *Landscape and Urban Planning* (2014-2017)  
 Associate Editor *Studies in Avian Biology*, “New Directions in Urban Bird Research” (2007-2012)  
 Member, Project Management Committee, Baltimore Ecosystem Study LTER (2007-2009)  
 Invited member: NCEAS working group on Ecosystem Services in the LTER Network.  
 Organizers: S. Farber and R. Costanza. (2004-2006)  
 Member: Animal Behavior Society since 1996, Ecological Society of America since 2000, Society for Conservation Biology since 2006  
 President 1996-2000; Co-President 1994-1995: Society for Conservation Biology, Univ. Texas Chapter

### Reviews

Manuscripts for: *Animal Behaviour*, *Animal Cognition*, *Auk*, *Basic and Applied Ecology*, *Behavioral Ecology*, *Behavioral Ecology and Sociobiology*, *Biological Conservation*, *Biological Reviews*, *Bioscience*, *Cities and the Environment*, *Condor*, *Conservation Biology*, *Ecological Applications*, *Environmental Management*, *Frontiers in Ecology and the Environment*, *Global Ecology and Biogeography*, *Ibis*, *Landscape and Urban Planning*, *Landscape Ecology*, *Proceedings of the Royal Society London*, *Trends in Ecology and Evolution*, *Urban Ecosystems*, *Urban Habitats*, *Wilson Bulletin*; guest editor for a manuscript in *Ecology* (2009)  
 Chapters for books and proposals for books from Cornell University Press, Cambridge University Press, Cornell University Press, and Wiley-Blackwell Publishers, Springer-SBM, University of California press

Grants for: National Science Foundation, CUNY small grants program, Czech Republic grants agency

External reviewer for 4 tenure cases, a researcher's promotion at Environmental Protection Agency (2007), a faculty reappointment at University of KwaZulu-Natal, and an NSERC Canada Research Chair

Served as session chair for Cultural Landscapes & Heritage Values conference, May 13-15, 2015, UMass-Amherst; reviewed approximately 20 abstract submissions

### **Recent Public Outreach**

"Who has access to nature in the city? Urban social inequities and biodiversity often converge but not always" Urban Ecology Collaborative, virtual presentation to roughly 30 practitioners, non-profit leaders, and researchers from a 6-city collaborative; February 16, 2022

Workshop for the Wade Institute for Science Education, approximately 30 teachers, Worcester, MA; February 28, 2019

Invited expert panel member, Boston Tree Canopy hearing, Boston City Council; June 18, 2018 (about 100 attendees, broadcast on community TV)

Invited presentation on "Safe Pruning Practices to Reduce Risk and Enhance Wildlife" to the 39th Annual UMass Community Tree Conference: Ecological Perspectives of the Urban Forest (A one-day conference is designed for tree care professionals and volunteers, including arborists, tree wardens, shade tree committee members.) Mar 5, 2018 (about 100 attendees)

Presentation to NYC Audubon, Feb 17, 2015; "Urban greening for urban birds" (about 30 attendees)

Presentation to Arnold Arboretum, Sept 22, 2015; "Urban greening for urban birds" (about 25 attendees)

Reviewer for Mosa Mack – science video program on food webs

Participant in 2 Workshops with Conservation Alliance in Phoenix, Arizona (2013)

Co-led 2 Workshops on envisioning alternative futures for Boston metropolitan area through NSF ULTRA-Ex grant (>25 participants, environmental and city government decision-makers), April 2011, March 2012

Presentation to the Summer Institute of Boston College (>40 K-12 teachers), July 8, 2010

Co-authored presentation with B. Kane to Massachusetts Arborists' Association annual dinner, March 24, 2009

Presentation with B. Kane to Tower Hill Botanic Garden "Trees in the Urban Landscape Symposium" (60+ participants from MA, RI, and CT), November 14, 2008.

Presentation to Springfield, MA chapter of the Audubon Society. March 5, 2007

Presenter & participant: Public Workshop, Walden Woods Highway Passage Structure Feasibility Project, January 27, 2007, Town Hall, Lincoln, MA.

Presenter & participant: Public Workshop, Walden Woods Highway Passage Structure Feasibility Project, October 21, 2006, Concord-Carlisle High School, Concord, MA.

Volunteer instructor: Learn About Forests July 13, 2005, a hands-on exploratory learning seminar with urban youth, organized by R. Toll-Dubois, Boston Urban Stewards Program.

Co-leader (with B. Kane): Field workshop March 26, 2005 with Boston Urban Stewards, training students in identifying habitat for cavity nesting birds in Franklin Park, Boston, MA.