# Mark C. Urban

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| **EDUCATION** | 2006 | Ph.D., Yale University |
| | 2001 | M.E.Sc., Yale University |
| | 1998 | B.S., Muhlenberg College |
| **PROFESSIONAL EXPERIENCE** | 2020 – 2024 | Arden Chair in Ecology and Evolutionary Biology (rotating chair) |
| | 2019 – | Professor, University of Connecticut, Dept. of Ecology and Evolutionary Biology (EEB) |
| | 2016 – | Founder and Director, Center of Biological Risk |
| | 2014 – 2019 | Associate Professor, University of Connecticut, Dept. of EEB |
| | 2008 – 2014 | Assistant Professor, University of Connecticut, Dept. of EEB |
| | 2006 – 2008 | Postdoctoral Fellow, National Center for Ecological Analysis and Synthesis |
| **FELLOWSHIPS** | 2023 – 2024 | Leverhulme Visiting Professorship, University of Aberdeen |
| | 2015 | University of Leuven Visiting Professor Fellowship |
| | 2006 | National Science Foundation National Center for Ecological and Synthesis Postdoctoral Fellowship |
| | 2004 | Centers for Disease Control Fellowship in Vector-Borne Disease |
| | 2001 | National Science Foundation Graduate Research Fellowship |
| **AWARDS AND HONORS** | 2022 | Elected, Connecticut Academy of Science and Engineering |
| | 2019, 2020 | Institute for Scientific Information Highly Cited Researcher |
| | 2016 | Presidential Award, American Society of Naturalists |
| | 2015 | *Discover*'s top-100 science stories of 2015 |
| | 2012 | Research Promise Award, American Assoc. of University Professors |
| | 2008 | Young Investigator Award, American Society of Naturalists |
| | 2006 | All distinguished recommendations for Ph.D. thesis |
| | 1998 | Graduated *summa cum laude* with honors & highest honors (2 majors) |
| | 1998 | John E. Trainer Award in Biology |
| | 1998 | Undergraduate Merit Award |
| | 1997 | Morris K. Udall Scholar |

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| **PUBLICATION HIGHLIGHTS** | 108 | peer-reviewed publications |
| | 55 | h-index (Google Scholar) |
| | 169 | mean citations per publication |
| | 4 | 1000+ citation articles |
| | 38 | 100+ citation articles |
| | 20k+ | citations |

**PUBLICATIONS**

Urban, M. C., and L. J. Balstad. 2026. Evolution to the rescue. *Science.* 391: 1100-1101.

Alberti, M., N. B. Grimm, E. P. Palkovacs, M. C. Urban, et al. 2026. Evolving nature-based solutions for urban resilience. *Science.* 392: 701-708.

Urban, M. C., C. S. Elphick, and D. I. Bolnick. 2026. Conservation should assume realistic adaptive capacities. *Proceedings of the National Academy of Sciences.* 123: e2415291123.

Serra-Diaz, J. M., L. C. Andrews, A. Schwarz Meyer, B. S. Carlson, B. Maitner, G. E. Pinilla-Buitrago, A. L. Pigot, C. H. Trisos, A. M. Wilson, and M. C. Urban. 2026. A global early warning system for predicting exposure of biodiversity to extreme heat. *Nature Climate Change*. 1-8.

Yang, X., M. C. Urban, B. Su, Z. Zhong, C. Wu, and D. Chen. 2026. Wildfire risk for species under climate change. *Nature Climate Change*. 16: 613-621.

Urban, M. C., D. Zurell, G. Bocedi, A. Gonzalez, S. J. E. Velazco, B. S. Bezeng, N. J. Briscoe, L. Brotons, L. B. Buckley, A. C. de Oliveira Junior, R. Cooke, et al. 2026. A global research coordination programme is urgently needed for biodiversity. *Nature Ecology & Evolution*. 1-3.

Zurell, D., C. H. Albert, G. Bocedi, N. J. Briscoe, L. B. Buckley, S. J. Gascoigne, A. Gonzalez …, and M. C. Urban. 2026. Biodiversity science and policy need more model intercomparisons. *Nature Reviews Biodiversity*. 1-12.

Lind, B. M., I. N. C. Shuman, L. A. Deegan, M. Heskel, M. C. Urban, J. L. Wegrzyn, and P. A. H. Westley. 2026. Beyond the tangled bank: An evolving meta-ecosystems framework to integrate ecological and evolutionary perspectives. *American Journal of Botany.* 113 :e70274.

Zurell, D., …, and M. C. Urban. 2025. Predicting the way forward for the Global Biodiversity Framework. *Proceedings of the National Academy of Sciences*. 122: e2501695122.

**PUBLICATIONS**

Merow, C., B. S. Maitner, A. Schwarz Meyer, A. L. Pigot, J. M. Serra-Diaz, and M. C. Urban. 2025. Hottest year in recorded history compounds global biodiversity risks. *Proceedings of the National Academy of Sciences.* 122: e2504945122.

Urban, M. C. and D. L. Drake. 2025. The spatial scale of adaptation in pond-breeding amphibian larvae. *Ecology.* 106: e70255.

De Meester, L., L. Govaert, S. Rudman, and M. C. Urban. 2025. Eco-Evolutionary Dynamics. Oxford Bibliographies. DOI: 10.1093/obo/9780199941728-0157

Bowser, G., K. Akamani, M. M. Balgopal, J. D. Coley, E. D. Diaz-Clark, W. C. Funk, B. Helmuth, S. Henriques, N. Grant-Hoffman, T. Osborne, M.C. Urban, and K. Waddell. 2025. Assessing Nature: perceptions, knowledge, and gaps. *Frontiers in Ecology and the Environment.* 23:e2846.

Urban, M. C. 2024. Climate change extinctions. *Science*. 386:1123-1128.
- 99$^{th}$ percentile Altmetric attention score
- Featured on *NPR, ABC, Le Monde, The Times, Vox*

Urban, M. C., M. Alberti, L. De Meester, Y. Zhou, B. C. Verrelli, M. Szulkin, C. Schmidt, A. M. Savage, P. Roberts, and L.R. Rivkin. 2024. Interactions between climate change and urbanization will shape the future of biodiversity. *Nature Climate Change*. 14: 436–447.
- Highlighted by editorial in *Nature Climate Change*
- Included in special joint issue on climate change and cities

Urban, M. C., J. Swaegers, R. Stoks, R. R. Snook, S. P. Otto, D. W. Noble, M. Moiron, M. H. Hällfors, M. Gómez-Llano, and S. Fior. 2024. When and how can we predict adaptive responses to climate change? *Evolution Letters.* 8: 172-187.

Fajgenblat, M., L. De Meester, and M. C. Urban. 2024. Dispersal evolution alters evolution-mediated priority effects in a metacommunity. Philosophical *Transactions of the Royal Society B: Biological Sciences.* 379: 20230129.

Nadeau, C.P. and M.C. Urban. 2024. Macroecological predictors of evolutionary and plastic potential do not apply at microgeographic scales for a freshwater Cladoceran under climate change. *Evolution Letters.* 8: 43-55.

Gallaher, A., S. M. Klionsky, Y. Chen, B. Becker, and M. C. Urban. 2024. Incorporating Ecosystem Services into Solar Energy Siting to Enhance Sustainable Energy Transitions. *Environmental Science & Technology*. 58:21557-21568.

**PUBLICATIONS**

D. Bickford, G. O. U. Wogan, D. H. Olson, K. S. Seshadri, M. C. Urban, A. Carnaval, J. Measey, J. J. L. Rowley, S. Rovito, R. von May, & S. C. Walls. Climate change. In Amphibian conservation action plan. IUCN. Gland, Switzerland. Pp. 53-86.

Fusco, N. A., B. J. Cosentino, J. P. Gibbs, M. L. Allen, A. J. Blumenfeld, G. H. Boettner, E. J. Carlen, M. Collins, C. Dennison, and D. DiGiacopo. 2024. Population genomic structure of a widespread, urban-dwelling mammal: The eastern grey squirrel (Sciurus carolinensis). *Molecular Ecology*. 33: e17230.

Templer, P., K. F. Atherton, E. Conrad-Rooney, H. Ho, L.R. Hutyra, C.F. Ianniello, D.R. Kashian, J.I. Levy, D. Meshoulam, and M.C. Urban. 2024. Strengthening graduate education and addressing environmental challenges through solutions-oriented partnerships and interdisciplinary training. *Sustainable Earth Reviews*. 7:3. DOI: 10.1186/s42055-024-00074-x

Urban, M. C., C. P. Nadeau, and S. T. Giery. 2023. Using mechanistic insights to predict the climate-induced expansion of a key aquatic predator. *Ecological Monographs.* e1575.

Buckley, L. B., E. Carrington, M. E. Dillon, C. García-Robledo, S. B. Roberts, J. L. Wegrzyn, and M. C. Urban. 2023. Characterizing biological responses to climate variability and extremes to improve biodiversity projections. *PLOS Climate*. 2: e0000226.

Gonzalez, A., . . . M. C. Urban et al. 2023. A global biodiversity observing system to unite monitoring and guide action. *Nature Ecology & Evolution*. DOI: 10.1038/s41559-023-02171-0

Gotelli, N. J., D. B. Booher, M. C. Urban, W. Ulrich, A. V. Suarez, D. K. Skelly, D. J. Russell, R. J. Rowe, M. Rothendler, N. Rios, S. M. Rehan, G. Ni, C. S. Moreau, A. E. Magurran, F. A. M. Jones, G. R. Graves, C. Fiera, U. Burkhardt, and R. B. Primack. 2023. Estimating species relative abundances from museum records. *Methods in Ecology and Evolution*. 14: 431-443.

Merow, C., B. Boyle, B. J. Enquist, X. Feng, J. M. Kass, B. S. Maitner, B. McGill, H. Owens, D. S. Park, A. Paz, G. E. Pinilla-Buitrago, M. C. Urban, S. Varela, and A. M. Wilson. 2023. Better incentives are needed to reward academic software development. *Nature Ecology & Evolution.* doi.org/10.1038/s41559-023-02008-w

**PUBLICATIONS**

Bowser, G., P. H. Templer, S. S. Ho, S. A. Green, S. Hautzinger, I. Zhu-Maguire, A. Connaughton, L. Dundon, D. Husic, and M. Urban. 2023. The fierce urgency of now: integrating the youth voice at COP. *Frontiers in Ecology and the Environment*. 21: 164-165.

Urban, M. C., J. M. J. Travis, D. Zurell, P. L. Thompson, N. W. Synes, A. Scarpa, P. R. Peres-Neto, A.-K. Malchow, P. M. A. James, D. Gravel, L. De Meester, C. Brown, G. Bocedi, C. H. Albert, A. Gonzalez, and A. P. Hendry. 2022. Coding for Life: Designing a Platform for Projecting and Protecting Global Biodiversity. *Bioscience*. 72: 91-104.

Leibold, M. A., L. Govaert, N. Loeuille, L. De Meester, and M. C. Urban. 2022. Evolution and community assembly across spatial scales. *Annual Review of Ecology, Evolution, and Systematics*. 53: 299–326.

Verrelli, B. C., M. Alberti, S. Des Roches, N. C. Harris, A. P. Hendry, M. T. J. Johnson, A. M. Savage, A. Charmantier, K. M. Gotanda, L. Govaert, L. S. Miles, L. R. Rivkin, K. M. Winchell, K. I. Brans, C. Correa, S. E. Diamond, B. Fitzhugh, N. B. Grimm, S. Hughes, J. M. Marzluff, J. Munshi-South, C. Rojas, J. S. Santangelo, C. J. Schell, J. A. Schweitzer, M. Szulkin, M. C. Urban, Y. Zhou, and C. Ziter. 2022. A global horizon scan for urban evolutionary ecology. *Trends in Ecology and Evolution*. 37(11): 1006–1019.

Nadeau, C. P., A. Giacomazzo, and M. C. Urban. 2022. Cool microrefugia accumulate and conserve biodiversity under climate change. *Global Change Biology*. 28(10): 3222–3235.

Rowland, F. E., E. S. Schyling, L. K. Freidenburg, M. C. Urban, J. L. Richardson, A. Z. A. Arietta, S. B. Rodrigues, A. D. Rubinstein, M. F. Benard, and D. K. Skelly. 2022. Asynchrony, density dependence, and persistence in an amphibian. *Ecology*. 103(7): e3696.

Evans, A. E., M. Zimova, S. T. Giery, H. E. Golden, A. L. Pastore, C. P. Nadeau, and M. C. Urban. 2022. An eco-evolutionary perspective on the humpty-dumpty effect and community restoration. *Oikos*. 2022(11): e08978.

Giery, S. T., D. L. Drake, and M. C. Urban. 2021. Microgeographic evolution of metabolic physiology in a salamander metapopulation. *Ecology*. 102(11): e03488.

Giery, S. T., M. Zimova, D. L. Drake, and M. C. Urban. 2021. Balancing selection and drift in a polymorphic salamander metapopulation. *Biology Letters*. 17(4): 20200901.

**PUBLICATIONS**

Urban, M. C., C. Merow, J. L. Wegrzyn, B. S. Maitner, and D. Corcoran. 2021. How to Publish at Pandemic Speed. *BioScience*. 71(10): 1001–1003.

Nadeau, C. P., T. E. Farkas, A. M. Makkay, R. T. Papke, and M. C. Urban. 2021. Adaptation reduces competitive dominance and alters community assembly. *Proceedings of the Royal Society B*. 288(1945): 20203133.

Golden, H. E., K. E. Holsinger, L. A. Deegan, C. J. A. MacKenzie, and M. C. Urban. 2021. River drying influences genetic variation and population structure in an Arctic freshwater fish. *Conservation Genetics*. 22(3): 369–382.

Des Roches, S., K. I. Brans, M. R. Lambert, L. R. Rivkin, A. M. Savage, C. J. Schell, C. Correa, L. De Meester, S. E. Diamond, N. B. Grimm, N. C. Harris, L. Govaert, A. P. Hendry, M. T. J. Johnson, J. Munshi-South, E. P. Palkovacs, M. Szulkin, M. C. Urban, B. C. Verrelli, and M. Alberti. 2021. Socio-eco-evolutionary dynamics in cities. *Evolutionary Applications*. 14: 248-267.
- Highly Cited Paper (Web of Science)
- Top-10 cited article in *Evolutionary Applications*

Govaert, L., F. Altermatt, L. De Meester, M. A. Leibold, M. A. McPeek, J. H. Pantel, and M. C. Urban. 2021. Integrating fundamental processes to understand eco-evolutionary community dynamics and patterns. *Functional Ecology*. 35: 2138-2155.
- Top downloaded article in *Functional Ecology*

Urban, M. C. 2020. Life without ice. *Science*. 367: 719-719.
- 99$^{th}$ percentile Altmetric attention score

Urban, M. C., S. Y. Strauss, F. Pelletier, E. P. Palkovacs, M. A. Leibold, A. P. Hendry, L. De Meester, S. M. Carlson, A. L. Angert, and S. T. Giery. 2020. Evolutionary origins for ecological patterns in space. *Proceedings of the National Academy of Sciences.* 117: 17482-17490.
- 97$^{th}$ percentile Altmetric attention score
- Featured in *Science Daily*

Merow, C. and M. C. Urban. 2020. Seasonality and uncertainty in global COVID-19 growth rates. *Proceedings of the National Academy of Sciences*: 117: 27456-27464.
- 99$^{th}$ percentile Altmetric attention score
- Featured in *The New York Times, Nature News*

**PUBLICATIONS**

Urban, M. C. 2020. Climate-tracking species are not invasive. *Nature Climate Change.* 10:382-384.
- Invited commentary
- 98th percentile Altmetric attention score
- Featured in *Smithsonian*, *Ensia*

Urban, M. C., N. A. Freidenfelds, and J. L. Richardson. 2020. Microgeographic divergence of functional responses among salamanders under antagonistic selection from apex predators. *Proceedings of the Royal Society B: Biological Sciences.* 287:20201665.

Alberti, M., Eric P. Palkovacs, Simone D. Roches, Luc D. Meester, Kristien I. Brans, L. Govaert, N. B. Grimm, N. C. Harris, A. P. Hendry, C. J. Schell, M. Szulkin, J. Munshi-South, M. C. Urban, and B. C. Verrelli. 2020. The Complexity of Urban Eco-evolutionary Dynamics. *Bioscience.* 70:772-793.

Evans, A. E., M. C. Urban, and E. L. Jockusch. 2020. Developmental temperature influences color polymorphism but not hatchling size in a woodland salamander. *Oecologia*. 192:909-918.

Arietta, A. Z. A., L. K. Freidenburg, M. C. Urban, S. B. Rodrigues, A. Rubinstein, and D. K. Skelly. 2020. Phenological delay despite warming in wood frog *Rana sylvatica* reproductive timing: a 20-year study. *Ecography.* 43:1791-1800.

Jeliazkov, A. et al. 2020. A global database for metacommunity ecology, integrating species, traits, environment and space. *Scientific Data.* 7:1-15.

Leibold, M. A., M. C. Urban, L. De Meester, C. A. Klausmeier, and J. Vanoverbeke. 2019. Regional neutrality evolves through local adaptive niche evolution. *Proceedings of the National Academy of Sciences of the United States of America*. 116: 2612 – 2617.
- Highlighted in *PNAS* commentary by M. Pinsky

Urban, M. C., A. Scarpa, J. M. J. Travis, and G. Bocedi. 2019. Maladapted Prey Subsidize Predators and Facilitate Range Expansion. *American Naturalist*. 194: 590-612.
- Recommended by Adam Siepielski in the Faculty of 1000

Nadeau, C. P. & Urban, M. C. 2019. Eco-evolution on the edge during climate change. *Ecography*. 42(7): 1280-1297.
- Invited E4 Award submission

Urban, M. C. 2019. Projecting biological impacts from climate change like a climate scientist. *Wiley Interdisciplinary Reviews: Climate Change.* 10(4): e585.

**PUBLICATIONS**

De Meester, L., K. I. Brans, L. Govaert, C. Souffreau, S. Mukherjee, H. Vanvelk, K. Korzeniowski, L. Kilsdonk, E. Decaestecker, R. Stoks, & M. C. Urban. 2019. Analysing eco-evolutionary dynamics – The challenging complexity of the real world. *Functional Ecology*. 33: 43 – 59.
- Top 10% most downloaded paper in *Functional Ecology*

Urban, M. C. 2018. Escalator to Extinction. *Proceedings of the National Academy of Sciences of the United States of America.* 115: 11871 – 11873.

Evans, A. E., B. R. Forester, E. L. Jockusch, and M. C. Urban. 2018. Salamander morph frequencies do not evolve as predicted in response to 40 years of climate change. *Ecography*. 41: 1687 – 1697.

Urban, M. C. and R. Roehm. 2018. The road to higher permanence and biodiversity in exurban wetlands. *Oecologia*. 186: 291 – 302.

Amburgey, S. M., D. A. Miller, E. H. Campbell Grant, T. A. Rittenhouse, M. F. Benard, J. L. Richardson, M. C. Urban, W. Hughson, A. B. Brand, and C. J. Davis. 2018. Range position and climate sensitivity: The structure of among-population demographic responses to climatic variation. *Global Change Biology.* 24: 439 – 454.

Nadeau, C. P., M. C. Urban, and J. R. Bridle. 2017. Climates past, present, and yet-to-come shape climate change vulnerabilities. *Trends in Ecology & Evolution*. 32: 786 – 800.

Nadeau, C. P., M. C. Urban, and J. R. Bridle. 2017. Coarse climate change projections for species living in a fine-scaled world. *Global Change Biology*. 23: 12 – 24.

Urban, M. C., P. L. Zarnetske, and D. K. Skelly. 2017. Searching for biotic multipliers of climate change. *Integrative and Comparative Biology.* 57: 134 – 147.

Urban, M. C., J. L. Richardson, N. A. Freidenfelds, D. L. Drake, J. F. Fischer, and P. P. Saunders. 2017. Microgeographic adaptation of Wood Frog tadpoles to an apex predator. *Copeia.* 105: 451 – 461.

Urban, M. C. *et al*. 2016. Improving the forecast for biodiversity under climate change. *Science*. 353: 1113.
- Featured in *Washington Post*, *WNPR*, *Bloomberg*, *Radio New Zealand*, *CarbonBrief*, and others
- Highly Cited Paper (Web of Science)

**PUBLICATIONS**

De Meester, L., J. Vanoverbeke, L. J. Kilsdonk, and M. C. Urban. 2016. Evolving perspectives on monopolization and priority effects. *Trends in Ecology & Evolution.* 31: 136 – 146.
- Highly Cited Paper (Web of Science)

Cunningham, H. R., L. J. Rissler, L. B. Buckley, and M. C. Urban. 2016. Abiotic and biotic constraints across reptile and amphibian ranges. *Ecography.* 39: 1 – 8.
- Editor's choice

Davies, T. J., M. C. Urban, B. Rayfield, M. W. Cadotte, and P. R. Peres-Neto. 2016. Deconstructing the relationships between phylogenetic diversity and ecology: a case study on ecosystem functioning. *Ecology*. 97: 2212 – 2222.

Vanoverbeke, J., M. C. Urban, and L. De Meester. 2016. Community assembly is a race between immigration and adaptation: eco-evolutionary interactions across spatial scales. *Ecography*. 39: 858 – 870.

Urban, M. C. 2016. Ecological genetics. In: eLS. John Wiley & Sons, Ltd: Chichester. DOI: 10.1002/9780470015902.a0021214.pub2.

Urban, M. C. 2015. Accelerating extinction risk from climate change. *Science*. 348: 571 – 573.
- Modified figure used in The Royal Society's Climate updates: progress since the fifth Assessment Report (AR5) of the IPCC
- #15 of top-100 discoveries of 2015, *Discover* Magazine
- Highlighted by editors
- Main finding in Summary for policymakers of the global assessment report on biodiversity and ecosystem services of IPBES
- Highly Cited Paper (Web of Science)
- Recommended by B. Brook, D. Fordham in the Faculty of 1000
- Featured in *New York Times, Associated Press, BBC, The Guardian, Washington Post, CNN, National Geographic, The Independent, Irish Times, International Business Times,* and others

Urban M.C. and Richardson J.L. 2015. The evolution of foraging rate across local and geographic gradients in predation risk and competition. *American Naturalist*. 186: E16–E32.
- Recipient of American Society of Naturalist's President's Award for best paper published in the journal in 2015

Henriques-Silva, R., F. Boivin, V. Calcagno, M. C. Urban, and P. R. Peres-Neto. 2015. On the evolution of dispersal via heterogeneity in spatial connectivity. *Proceedings of the Royal Society B: Biological Sciences.* doi: 10.1098/rspb.2014.2879.

**PUBLICATIONS**

Urban, M. C., L. A. Lewis, K. Fucikova, and A. Cordone. 2015. Population of origin and environment interact to determine oomycete infections in spotted salamander populations. *Oikos*. 124: 274 – 284.

Richardson, J. L., M. C. Urban, D. I. Bolnick, and D. K. Skelly. 2014. Microgeographic adaptation and the spatial scale of evolution. *Trends in Ecology & Evolution*. 29: 165 – 176.
- Recommended by A. Hendry in the Faculty of 1000
- Highly Cited Paper (Web of Science)

Urban, M. C., J. L. Richardson, and N. A. Freidenfelds. 2014. Plasticity and genetic adaptation mediate amphibian and reptile responses to climate change. *Evolutionary Applications*. 7: 88 – 103.
- Highly Cited Paper (Web of Science)

Herstoff, E., and M. C. Urban. 2014. Will pre-adaptation buffer the impacts of climate change on novel species interactions? *Ecography*. 37: 111 – 119.

Urban, M. C., R. Bürger, and D. I. Bolnick. 2013. Asymmetric selection and the evolution of extraordinary defenses. *Nature Communications*. 4: 1 – 8.

Urban, M. C. 2013. Evolution mediates the effects of apex predation on aquatic food webs. *Proceedings of the Royal Society B: Biological Sciences.* doi: 10.1098/rspb.2013.0859.
- Featured in *NSF News*

Urban, M. C., P. L. Zarnetske, and D. K. Skelly. 2013. Moving forward: Dispersal and species interactions determine biotic responses to climate change. *Annals of the New York Academy of Sciences*. doi: 10.1111/nyas.12184.

Richardson, J. L. and M. C. Urban. 2013. Strong selection barriers explain microgeographic adaptation in wild salamander populations. *Evolution*. 67: 1729 – 1740.

Jones, C. S. and M. C. Urban. 2013. Promise and pitfalls of a gender-blind faculty search. *Bioscience*. 63: 611 – 612.

Zarnetske, P. L., D. K. Skelly, and M. C. Urban. 2012. Biotic multipliers of climate change. *Science*. 336: 1516 – 1518.
- Featured in *Science Daily, RedOrbit, Wissenschaft*, and others

Norberg, J., M. C. Urban, M. Vellend, C. A. Klausmeier, and N. Loeuille. 2012. Eco-evolutionary responses of biodiversity to climate change. *Nature Climate Change.* 2: 747 – 751.
- Recommended by A. Baird, J. Figueiredo in the Faculty of 1000

**PUBLICATIONS**

Urban, M. C., J. J. Tewksbury, and K. S. Sheldon. 2012. On a collision course: competition and dispersal differences create no-analogue communities and cause extinctions during climate change. *Proceedings of the Royal Society B*. 279: 2072 – 2080.
- Featured in *Nature* Research Highlights, *Christian Science Monitor*, *Business Week*, *The Atlantic Wire*, *Hartford Courant*, and others
- Highly Cited Paper (Web of Science)
- Recommended by B. Brook, D. Fordham in the Faculty of 1000
- Top-10 most cited *Proceedings of the Royal Society B* articles from 2012

Urban, M. C., L. De Meester, M. Vellend, R. Stoks, and J. Vanoverbeke. 2012. A crucial step toward realism: responses to climate change from an evolving metacommunity perspective. *Evolutionary Applications*. 5: 154 – 167.
- Recommended by R. Sommaruga in the Faculty of 1000
- Top 10 highly cited articles in journal in 2013

Urban, M. C. 2011. The evolution of species interactions across natural landscapes. *Ecology Letters*. 14: 723 – 732.

Urban, M. C., Gilman, S. E., J. Tewksbury, and R. D. Holt. 2011. Heating up relations between cold fish: competition modifies responses to climate change. *Journal of Animal Ecology*. 80: 505 – 507.

Bolnick, D. I., P. Amarasekare, M. S. Araujo, R. Burger, J. M. Levine, M. Novak, V. H. W. Rudolf, S. J. Schreiber, M. C. Urban, and D. A. Vasseur. 2011. Why intraspecific variation matters in community ecology. *Trends in Ecology & Evolution*. 26: 183 – 192.
- #2 most cited *Trends in Ecology & Evolution* article published since 2011
- Highly Cited Paper (Web of Science)

Gilman, S. E., M. C. Urban, J. Tewksbury, G. W. Gilchrist, and R. D. Holt. 2010. A framework for community interactions under climate change. *Trends in Ecology & Evolution*. 25: 325 – 331.
- Highly Cited Paper (Web of Science)

Buckley, L. B., M. C. Urban, M. J. Angilletta, L. Crozier, L. J. Rissler, and M. W. Sears. 2010. Can mechanism inform species' distribution models ? *Ecology Letters*. 13: 1041 – 1054.
- Highly Cited Paper (Web of Science)
- Recommended by B. Brook, L. Traill in the Faculty of 1000

Urban, M.C. 2010. Microgeographic adaptation of larval salamander morphological defenses in response to a predaceous salamander and beetle. *Oikos*. 119: 646 – 658.

**PUBLICATIONS**

Urban, M.C., and L. De Meester. 2009. Community monopolization: local adaptation enhances priority effects in an evolving metacommunity. *Proceedings of the Royal Society B*. 276: 4129 – 4138.

Urban, M. C., et al. 2008. The evolutionary ecology of metacommunities. *Trends in Ecology and Evolution*. 23: 311 – 317.
- #1 most cited article in TREE (Apr. – Sept. 2008)

Urban, M. C., B. L. Phillips, D. K. Skelly, and R. Shine. 2008. The toad more traveled: the heterogeneous invasion dynamics of cane toads in Australia. *American Naturalist*. 171: E134 – E148.

Urban, M. C. 2008. The evolution of prey body size reaction norms in diverse communities. *Journal of Animal Ecology*. 77: 346 – 355.

Urban, M. C. 2008. Salamander evolution across a cline in gape-limited predation risk. *Oikos.* 117: 1037 – 1049.

Urban, M. C. 2008. Ecological Genetics. In: Encyclopedia of Life Sciences. John Wiley and Sons, Ltd, Chichester.

Urban, M. C. 2007. The growth-predation risk tradeoff under a growing gape-limited predation threat. *Ecology*. 88: 2587 – 2597.

Urban, M. C. 2007. Predator size and phenology shape prey survival in temporary ponds. *Oecologia*. 154: 571 – 580.

Urban, M. C. 2007. Risky prey behavior evolves in risky habitats. *Proceedings of the National Academy of Sciences of the USA*. 104: 14377 – 14382.
- Featured on *Science Online News*, *National Geographic News*, *The New Scientist*, *AAAS radio show Science Update*," and others

Urban, M. C., B. L. Phillips, D. K. Skelly, and R. Shine. 2007. The cane toad's (*Chaunus* [*Bufo*] *marinus*) increasing ability to invade Australia is revealed by a dynamically updated range model. *Proceedings of the Royal Society B*. 274: 1413 – 1419.
- Featured on *Nature Online News*, *BBC News*, *Today Show-Australia*, *Discovery Channel News*, *Yahoo News*, and others
- Recommended by A. Hendry in the Faculty of 1000

Urban, M. C. 2006. Maladaptation and mass-effects in a metacommunity: consequences for species coexistence. *American Naturalist*. 168: 28 – 40.

Urban, M. C. and D. K. Skelly. 2006. Evolving metacommunities: Toward an evolutionary perspective on metacommunities. *Ecology*. 87: 1616 – 1626.

Urban, M. C., D. K. Skelly, D. Burchsted, W. Price, S. Lowry. 2006. Stream communities across a rural-urban landscape gradient. *Diversity and Distributions*. 12: 337 – 350.
- Recommended by P. Kareiva in the Faculty of 1000

Urban, M. C. 2006. Road facilitation of trematode infections in snails of northern Alaska. *Conservation Biology*. 20: 1143:1149.

Skelly, D. K., M. A. Halverson, L. K. Freidenburg, and M. C. Urban. 2005. Canopy closure and amphibian biodiversity in forested wetlands. *Wetlands Ecology and Management*. 13: 261 – 268.

Urban, M. C. 2004. Disturbance heterogeneity determines freshwater metacommunity structure. *Ecology*. 85: 2971 – 2978.

Bradt, P., M. Urban, N. Goodman, S. Bissell and I. Spiegel. 1999. Stability and resilience in benthic macroinvertebrate assemblages. *Hydrobiologia*. 403: 123 – 133.

**POPULAR PRESS**

Urban, M. C. Evolution on the smallest of scales. *The Conversation*. October 2nd, 2020

Urban, M. C. Ice will return but extinctions can't be reversed. *The Guardian*. December 27th, 2017
- 10th most-read article in environment

Urban, M. C. How data is key to conserving wildlife in a changing climate. *CarbonBrief*. September 14th, 2016

Urban, M. C. and Linda A. Deegan. T-shirt weather in the Arctic. Opinion. *The New York Times.* February 5th, 2016
- 9th most emailed article and 12th most tweeted article

Urban, M. C. and R. Capers. Climate change has come, time for leadership. Opinion. *Hartford Courant*. December 2nd, 2012.

Urban, M. C. 2004. The town that sold its sunset. *River Teeth*. 5: 90 – 102.
- Honorable mention in writer's competition of the *Atlantic Monthly*

**RESEARCH GRANTS**

**> $25M external**

**2024 – 2029 National Science Foundation Biology Integration Institute (co-PI)**
EvoME Institute: Evolving Meta-ecosystems in the Arctic
$15,000,000

**2022 -2024 National Aeronautics and Space Administration – Earth Science (PI)**
Biodiversity Exposure Forecasts (BEFore): Anticipating Ecological Vulnerability to Global Change
$2,000,000

**RESEARCH GRANTS (cont.)**

**2019 – 2021 National Aeronautics and Space Administration – Planetary Science – Exobiology (PI)**
Overcoming adaptation: how colonization, evolution, and competition determine the assembly of extremophile communities
$953,472

**2019 -2020 CT Institute of Water Resources (PI)**
Forecasting the resilience of vernal pool ecosystems to climate-mediated hydrological disruptions
$25,000

**2018 – 2019 Quebec Centre for Biodiversity Science (Co-PI)**
OneModel: Forecasting Biodiversity Change
$20,000

**2016 – 2021 National Science Foundation – Div. of Environmental Biology (PI)**
Ecological and evolutionary resilience of aquatic communities to the climate-mediated expansion of an apex predator
$823,650

**2016 – 2019 University of Connecticut Provost Academic Plan (PI)**
Center of Biological Risk
$300,000

**2015 – 2017 National Science Foundation – Div. of Polar Programs (co-PI)**
Adaptability of a key Arctic freshwater species to climate change
with Linda Deegan, Marine Biological Laboratory
$1,200,000 + ~ $750,000 in logistical support

**2012 – 2017 James S. McDonnell Foundation Complex Systems Grant (PI)**
Does evolution affect the assembly dynamics of biological communities?
$450,000

**2011 – 2015 National Science Foundation – Div. of Environmental Biology (PI)**

Evolutionary and ecological feedbacks: Do locally adapted salamanders shape food web dynamics across natural landscapes?
$500,000

**2009 – 2010 University of Connecticut Foundation (PI)**
Evolutionary feedbacks on species diversity $24,000

**2006 – 2008 National Center for Ecological Analysis and Synthesis (co-PI)**
Working group: Evolutionary and ecological sorting in space
with Mathew Leibold, University of Texas-Austin $105,000

**2006 – 2008 National Center for Ecological Analysis and Synthesis (PI)**
Postdoctoral Fellowship: Interaction traits and metacommunity gene flow
$86,000

**TEACHING & OTHER GRANTS**

**2020 – 2025 National Science Foundation Research Traineeship (NRT) (PI)**
Building resilient landscapes for food, energy, water, and ecosystem services in America's original megalopolis
$3,000,000

**2020 National Science Foundation Coordination Network (co-PI)**
Youth Environment Alliance in Higher Education (YEAH)
$499,138 ($50,000 to UConn)

**2015 – 2018 National Science Foundation (Sr. Pers.)**
NRT-IGE: Training STEM Graduates to Communicate in the Digital Age, and Measuring Whether It Works
PI: Margaret Rubega $499,000

**TEACHING**

Environmental Risk Assessment (graduate)
Environmental Risk Practicum (graduate)
Climate Crisis: Take Action (all-campus pop-up course with 3600+ students)
Global change ecology (undergraduate)
Evolutionary ecology (graduate)
Freshwater ecology (undergraduate)
Ecology (undergraduate)
Ecology writing intensive (undergraduate)
Nature, Science, and Society seminar (undergraduate and graduate)
Seminar in Vertebrate Biology (undergraduate and graduate)
Spatial Evolution seminar (graduate)
Co-led COP21, 22, 23, 24, 25, 26, 27, 28, 29, 31 delegations to UN Climate Summit (undergraduate)

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| **POSTDOC FELLOWS** | 2024 – 2025 | Brian Maitner (Asst. Prof., University of South Florida) |
| | 2023 – 2025 | Ben Carlson |
| | 2023 – 2025 | Gonzalo Pinilla Buitrago (Univ. Nacional Autónoma de México) |
| | 2022 – 2024 | Ben Wasserman (Postdoc, Delaware Fish & Game) |
| | 2021 – 2022 | Heather Kittredge (Senior Scientist, Nabsys) |
| | 2020 – 2021 | Derek Corcoran (Senior data scientist, Aarhus University) |
| | 2017 – 2019 | Sean Giery (Asst. Prof., University of Wyoming) |
| | 2014 – 2017 | Timothy Farkas (Data scientist, Univ. of New Mexico) |
| | 2012 – 2014 | Jonathan Richardson (Prof., Richmond University) |
| | 2011 – 2013 | Phoebe Zarnetske (Prof., Michigan State University) |
| **VISITING SCHOLARS/ RESEARCH SCIENTISTS** | 2022 – 2024 | Pep Serra-Diaz (Researcher, Institut Botànic de Barcelona) |
| | 2011 – 2012 | Joost Vanoverbeke (Flemish Research Inst. for Nature and Forest) |
| **GRADUATE STUDENTS** | 2025 – | Airianna McGuire (Ph.D.) |
| | 2023 – | Matthew Donahue (Ph.D.) |
| | 2021 – | Peter Billman (Ph.D.) |
| | 2021 – 2026 | Katja Kwaku (Ph.D.) |
| | 2020 – 2023 | Amanda Pastore (M.S.) |
| | 2019 – 2020 | Samantha Pierce (B.S./M.S.) |
| | 2014 – 2020 | Annette Evans (Ph.D.) |
| | 2014 – 2020 | Christopher Nadeau (Ph.D.) |
| | 2015 – 2016 | Shannon Nardi (B.S./M.S.) |
| | 2012 – 2018 | Michael Hutson (Ph.D.) |
| | 2010 – 2016 | Heidi Golden (Ph.D.) |
| | 2010 – 2016 | Jessica Rack (Ph.D.) |
| | 2010 – 2012 | Robert Roehm (B.S./M.S.) |

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| **GRADUATE STUDENT COMMITTEES** | 2026 – | Hagen Klobusnik (Ph.D.) |
| | 2026 – | Mohammad Shahriyar Parvez (Ph.D.) |
| | 2025 – | Lorraine Perez (M.S.) |
| | 2023 – | Emma Choi (Ph.D.) |
| | 2021 – 2025 | Jessica Espinosa (Ph.D.) |
| | 2021 – 2025 | Swapna Subramanian (Ph.D.) |
| | 2021 – 2025 | Ewaldo Leitao de Oliveira, Jr. (Ph.D.) |
| | 2019 – 2024 | Grace Vaziri (Ph.D.) |
| | 2018 – 2024 | Dipanjana Dalui (Ph.D.) |
| | 2015 – 2022 | Jason Lech (Ph.D.) |
| | 2017 – 2021 | Jacob Kasper (Ph.D.) |
| | 2015 – 2020 | Kristen Nolting (Ph.D.) |
| | 2015 – 2019 | Anna Sjodin (Ph.D.) |
| | 2017 – 2019 | Jackson Phillips (M.S.) |
| | 2013 – 2016 | Michael Smircich (M.S.) |
| | 2013 – 2016 | Johana Goyes (Ph.D.) |
| | 2012 – 2014 | Jason O'Connor (M.S.) |
| | 2011 – 2016 | Christopher Field (Ph.D.) |
| | 2010 – 2014 | Laura Cisneros (Ph.D.) |
| | 2010 – 2014 | Jonathan Velotta (Ph.D.) |
| | 2010 – 2011 | Andre Felton (M.S.) |
| | 2009 – 2015 | Brian Klingbeil (Ph.D.) |
| | 2009 – 2011 | Tobias Landberg (Ph.D.) |

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| **EXTERNAL PH.D. STUDENT COMMITTEES** | 2025 – | Madeline Frey, University of Alabama |
| | 2024 – 2025 | Maxime Fajgenblat, University of Leuven, Belgium |
| | 2022 – | Noa Ratia, University of Nevada, Reno |
| | 2017 – 2023 | Mary Burak, Yale University |
| | 2018 – 2022 | Muyang Lu, Yale University |
| | 2022 – 2023 | Patrick Moldowan, University of Toronto |
| | 2015 – 2017 | Samantha Schwab, Rutgers University |
| | 2015 – 2016 | Patrick Thompson, McGill University |
| | 2014 – 2017 | Lindsey Thurman, Oregon State University |
| | 2013 – 2016 | Daniel Wieczynski, Yale University |
| | 2013 – 2015 | Chris Dibble, Rice University |
| | 2011 – 2012 | Sarah Rousseaux, University of Leuven |

**INVITED KEYNOTE, SYMPOSIA, & PANEL LECTURES**

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| 2026 | Panel, Gordon Research Conference on Predator-Prey Interactions, Barga, Italy |
| | Keynote, Accelerating Environmental Forecasting Symposium, Boston, USA |
| 2025 | American Society of Naturalists Vice Presidential Symposium, Athens, GA |
| | Keynote, Ecological Forecasting Initiative, Blacksburg, VA |
| | Presidential debate, American Society of Naturalists, Asilomar, CA |
| | NATURA international network panel, online |
| | North American Society for Conservation Biology, online |
| 2024 | EVENET, University of Ghent, Belgium |
| 2023 | Cambridge University Conservation Initiative, Cambridge, U.K. |
| | Eco-Evo Workshop, Mt. St. Hilaire, Montreal |
| | ASLO, Mallorca, Spain |
| 2022 | United Nations COP 27, Sharm el-Sheikh, Egypt (Panel) |
| | World Biodiversity Forum, Davos, Switzerland (2 keynote) |
| | British Ecological Society & Royal Meteorological Society Climate Science for Ecological Forecasting, Keynote, London, U.K. |
| | British Ecological Society, Panelist, Geneva, Switzerland |
| 2021 | ASLO Understanding (mal)adaptations to environmental change, Keynote, virtual |
| 2020 | Idaho EPSCoR GEM3 annual meeting, Keynote, virtual |
| 2019 | UC Louvain Conference on How human activities cause biodiversity loss, Keynote, Louvain-La-Neuve, Belgium |
| | ASLO Adaptation of Aquatic Biodiversity Symposium, Keynote, San Juan, Puerto Rico |
| | UConn Law School, Food & Changing Climate Conference, Keynote, W. Hartford, CT |
| 2018 | Yale University School of Forestry and Environmental Studies Leadership Council Alumni Panel, New Haven, CT |
| | American Society of Naturalists, Asilomar, CA |
| 2017 | Society for Integrative and Comparative Biology, New Orleans, LA |
| 2016 | EVENET Eco-evolutionary Symposium, Keynote, Ghent, Belgium |
| | Flanders Annual Meeting of Ecology, Keynote, Ghent, Belgium |
| | Ecological Society of America, Fort Lauderdale, FL |
| | Joint Meeting of Ichthyologists and Herpetologists, New Orleans |
| | TEDx-UConn, Storrs, CT |
| | Yale University Center for Biodiversity and Global Change Inaugural Lecture , New Haven, CT |

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| **INVITED KEYNOTE, SYMPOSIA, & PANEL LECTURES** | 2014 | American Society of Naturalists, Asilomar, CA |
| | | Canadian Society for Ecology and Evolution, Montreal, Quebec |
| | | Joint Aquatic Sciences Meeting, Portland, OR |
| | | Climate Impacts, Mitigation & Adaptation Conference, Storrs, CT |
| | 2013 | Ecological Society of America, Minneapolis, MN |
| | | Center for Integrative Biodiversity Research, Leipzig, Germany |
| | | British Ecological Society INTECOL Congress, London, England |
| | 2012 | Association for the Advancement of Arts and Sciences, Vancouver |
| | | Cary Conference on Climate Change and Species Interactions, Millbrook, NY |
| | | Diversitas Workshop on Range Dynamics, Mont St. Hilaire, Quebec |
| | 2011 | European Platform for Biodiversity Research Strategy Conference on Evolution and Biodiversity |
| | | Ecological Society of America, Austin, TX |
| | | Quebec Centre for Biodiversity Science, Montreal, Quebec |
| | 2010 | Ecological Society of America, Pittsburgh, PA |
| | 2009 | University of Toronto EEB Colloquium Keynote, Toronto, Canada |
| | 2008 | Diversitas Workshop on Climate Change, Paris, France |
| | | American Society of Naturalists Young Investigator's Symposium, Minneapolis, MN |
| | | Ecological Society of America, Milwaukee, WI |
| | 2006 | Ecological Society of America, Nashville, TN |
| | 2005 | Ecological Society of America, Montreal, Quebec |

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| **INVITED LECTURES (45 institutions)** | 2026 | UConn Earth Sciences |
| | | UConn Climate Justice in Turbulent Times |
| | | Harvard Forest |
| | 2025 | Queen's University |
| | | University of California - Davis |
| | 2024 | University of Oxford |
| | | Leibniz Institute für Gewasserökologie und Binnenfischerei (IGB) |
| | | University of Aberdeen (Leverhulme lecture 2) |
| | | Sherbrooke University |
| | 2023 | University of Aberdeen (Leverhulme lecture) |
| | | Boston University |
| | | Pace University |
| | 2022 | Carnegie Institute of Science |
| | | University of Florida (Holt lecture; online) |
| | | The Jackson Laboratory for Genomic Medicine |
| | 2021 | Cary Institute of Ecosystem Studies (online; pandemic) |
| | | University of Potsdam (online; pandemic) |
| | 2020 | Binghamton University (online; pandemic) |
| | | Rutgers University |
| | 2019 | KU Leuven |
| | | Case Western Reserve University (Student's choice) |
| | 2018 | University of Connecticut Pathobiology |
| | 2017 | Jinan University, Guangzhou, China |
| | | University of Missouri (Student's choice) |
| | | Northeastern University |
| | | University of Aberdeen |
| | | University of Massachusetts – Amherst |
| | 2016 | Yale University |
| | | University of California – Santa Cruz |
| | | University of Maine-Orono |
| | | University of Vermont |
| | 2015 | World Wildlife Fund (UK) |
| | | Duke University |
| | | Rutgers University |
| | | Kellog Biological Field Station |
| | | Michigan State University |
| | 2014 | North Carolina State University |
| | | Eastern Connecticut State University |
| | 2013 | City College of New York |
| | | Wesleyan University |
| | | University of Leuven |
| | | Washington University in St. Louis (Student's choice) |
| | | Pennsylvania State University |

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| **INVITED LECTURES** | 2013 | Clark University |
| | | University of Connecticut Alumni Association |
| | | University of Connecticut Natural Resources and the Environment |
| | | McGill University |
| | | University of Illinois at Urbana-Champaign |
| | 2012 | State University of New York at Stony Brook |
| | | University of Leuven |
| | | Universite du Quebec a Montreal |
| | 2011 | University of California – Davis |
| | | Trinity College |
| | | University of Connecticut – Avery Point |
| | | University of Massachusetts – Amherst |
| | | University of Texas – Austin (Student's choice) |
| | 2010 | University of California – Riverside |
| | 2009 | University of Connecticut Environmental Engineering |
| | | National Center for Ecological Analysis and Synthesis |
| | | Michigan State University |
| | 2008 | University of Connecticut – Storrs |
| **CONTRIBUTED CONFERENCE LECTURES** | 2025 | American Society of Naturalists, Asilomar, CA |
| | 2023 | Species on the Move Conference, Bonita Springs, FL |
| | | American Society of Naturalists, Asilomar, CA |
| | 2020 | American Society of Naturalists, Asilomar, CA |
| | 2018 | Evolution, Montpellier, France |
| | 2016 | American Society of Naturalists, Asilomar, CA |
| | 2011 | Ecological Society of America, Austin, TX |
| | 2008 | Ecological Society of America, San Jose, CA |
| | 2004 | Ecological Society of America, Portland, OR |
| **INVITED WORKSHOPS AND WORKING GROUPS** | 2019 – 2024 | NSF RCN on urban eco-evolution, Seattle, Washington |
| | 2018 | INRA workshop on climate refugia, Bordeaux, France |
| | 2016 – 2018 | FWO Research Network: An Eco-Evolutionary Network of Biotic Interactions |
| | 2013 – 2017 | sDiv Climate Change and Range Dynamics Working Group, Leipzig, Germany |
| | 2014 – 2017 | Workshop on Climate Change, Agriculture and Biodiversity, King's College, Cambridge, United Kingdom |
| | 2012 | DIVERSITAS Workshop on Ecological Interactions and Range Evolution Under Climate Change, Montreal, Quebec |
| | 2011 | Quebec Centre for Biodiversity Science Workshop on Community Phylogenetics, Montreal, Quebec |
| | 2008 – 2010 | NCEAS Working Group on Mechanistic Range Models, Santa Barbara, CA and Raleigh, NC |
| | 2009 – 2011 | NIMBioS Working Group on Intraspecific Niche Variation, Nashville, TN |
| | 2009 | DIVERSITAS/EU EVOLTREE Workshop, Paris, France |

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| **ORGANIZER OF WORKSHOPS, WORKING GROUPS, & SYMPOSIA** | 2026 | World Biodiversity Forum, Davos, Switzerland |
| | 2025 | Living Data, Bogota, Colombia |
| | 2024 | GEO BON Eco Code BMIP, Berlin, Germany |
| | 2023 | GEO BON, "Eco-code: Modeling the Monitoring to Mitigation Pathway," Montreal, Canada |
| | | Urban Eco-Evo RCN, "Community Eco-Evo mechanisms in cities," Seattle, WA |
| | 2022 | U.N. COP 27, "Climate leadership across generations," Sharm el-Sheikh, Egypt |
| | | Urban eco-evo RCN, "Does the strength of eco-evolutionary processes differ in the city?" online |
| | | World Biodiversity Forum, Davos, Switzerland, convener on sessions on "A Model for Life" and "Harnessing Rapid Evolution to Conserve Global Biodiversity" |
| | 2019 | Quebec Centre for Biodiversity Science Working Group on Mechanistic Models, Montreal, Canada |
| | 2018 | Evolution Symposium on Evolution of Community Ecology, Montpellier, France |
| | 2012 | Workshop on Climate Change and Species Interactions, Millbrook, NY, Steering committee |
| | 2008 | ESA Symposium on Evolution in Metacommunities |
| | 2006 – 2008 | NCEAS Working Group: Evolving Metacommunities |
| | 2005 | ESA Oral Session on Evolving Metacommunities |
| **EDITORIAL** | 2009 – | Subject Editor, *Ecology* and *Ecological Monographs* |
| | 2013 – 2018 | Editorial board, *Climate Change Responses* |
| | 2014 – 2017 | Subject Editor, *Axios Review* |
| **INTER-NATIONAL SERVICE** | 2022 – | GEO BON Modeling Working group co-leader |
| | 2020 – 2022 | IUCN SSC climate change working group for the Amphibian Conservation Action Plan (ACAP) |
| **NATIONAL SERVICE** | 2024 – | U.S National Nature Assessment Chapter Author |
| **STATE SERVICE** | 2026 – | Board of trustees member, The CT Nature Conservancy |
| | 2022 – 2025 | Governor's Council on Climate Change Science and Technology & Resilient Infrastructure and Nature-Based Solutions Working Groups |
| | 2013 – | Connecticut Endangered Species Advisory Committee |
| | 2019 | Expert testimony on CT House Bill 7083: mandate to teach climate change in CT science curriculum |
| | 2013 – 2016 | Connecticut Strategic Water Planning Committee |

**SOCIETY SERVICE**

2021 – 2023 American Society of Naturalists Sewall Wright Award Committee
2015 – Ecological Society of America Publications Committee
2010 Ecological Society of America Frost Award Committee
2004 – 2006 Oversight board member for the Yale-Myers Research Forest

**CONSULTANT**

2019 BBC Sir David Attenborough documentary, *Climate Change – The Facts*
2017 National Geographic Magazine – special feature on winners and losers of climate change
2016 Documentary series – *Years of Living Dangerously* on impacts of climate change on species

**SELECTED MEDIA**

Live television, radio, and webinar appearances
*WNPR Where we Live, The Take with Sue O'Connell on NECN-Boston, WBEZ-Chicago, MPR-Minnesota, WNPR, Voice of America, Science in Conversation, WILI-Willimantic*

Selected print and online media
*The New York Times, Washington Post, National Public Radio, AP, The Guardian, CBS, CNN, National Geographic, BBC, Discover, Bloomberg, The Independent, Irish Times, International Business Times, Christian Science Monitor, Business Week, The Atlantic Wire, Hartford Courant, Nature Online News, Science Online, Today Show-Australia, Discovery Channel, The New Scientist*

**PUBLIC OUTREACH**

High school teacher research fellowship (trained two K-12 science teachers)
Developed lesson plans for high school students: *Amphibians on the Move: Predicting Why and When:*
Developed amphibian tracker web site: http://hydrodictyon.eeb.uconn.edu/people/urban/tracker.html
Wilton Land Conservation Trust annual meeting speaker (2022)
Branford Land Trust annual meeting speaker (2019)
Joshua's Land Trust annual meeting speaker (2019)
CT State Museum of Natural History Public "Museum Walks" (2011)
Kids Do Ecology, NCEAS (2008)
Organizer, NCEAS Open House discussions (2007 – 2008)

**REVIEWS**

**Journals** *American Naturalist, Amphibia-Reptilia, Animal Conservation, Annales de Limnologie International Journal of Limnology, Biological Journal of the Linnean Society, BioScience, Current Biology, Diversity and Distributions, Ecography, Ecological Applications, Ecological Applications, Ecology, Ecology Letters, Ecosystems, Evolution, Evolutionary Applications, Evolutionary Ecology, Functional Ecology, Global Ecology and Biogeography, Herpetological Notes, Hydrobiologia, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Biogeography, Journal of Evolutionary Biology, Journal of Experimental Zoology: Ecological Genetics and Physiology, Herpetological Notes, Journal of Sustainable Forestry, Limnology and Oceanography, Marine and Freshwater Research, Nature, Nature Climate Change, Oecologia, Oikos, PLoS ONE, Population Ecology, Proceedings of the Royal Society: Biological Sciences, Science, Scientific Reports, Trends in Ecology & Evolution, Wildlife Research*

**Books**

Island Press, Oxford University Press, Sinauer Associates, Yale U. Press

**Grants**

European Research Council, Flanders Research Foundation, Israel-US Binational Science Foundation, Knut And Alice Wallenberg Foundation, National Science Foundation, National Geographic Society, Natural Sciences and Engineering Research Council of Canada, Swiss National Science Foundation, University of Leuven Centres of Excellence

**International governmental reports**

Working Group II contribution to the IPCC Fifth Assessment Report (AR5)