

JONATHAN R. THOMPSON

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Biography:

Dr. Jonathan Thompson is Director of the Harvard Forest, Harvard University's research forest and department in Petersham, Massachusetts. A landscape ecologist, he studies how land-use decisions (who owns forests, and how they are harvested, protected, or converted) shape forest carbon, biodiversity, and ecosystem services over decades to centuries. His work combines remote sensing, simulation modeling, and synthesis, and bridges ecology with economics and policy. He served as Land Sector Lead for the Massachusetts Decarbonization Roadmap, is lead author of *Changes to the Land: Four Scenarios for the Future of the Massachusetts Landscape*, and leads the New England Landscape Futures project. He has published >100 peer-reviewed papers and teaches OEB 110, *Forests, Carbon, and Climate: From Ecosystems to Policy*.

Appointments:

2025-Present	Director, Harvard Forest, Harvard University
2022-2025	Research Director, Harvard Forest, Harvard University
2022, 2025	Lone Mountain Fellow, Property & Environment Research Center (PERC), Bozeman, MT
2019-2026	Lead Principal Investigator, Harvard Forest Long Term Ecological Research Program
2013-2025	Senior Ecologist, Harvard Forest, Harvard University
2014-Present	Adjunct Professor, Dept of Earth and Environment, Boston University
2014-Present	Adjunct Research Professor, Ecological Conservation, U. of Massachusetts, Amherst
2011-2014	Research Assistant Professor, University of Virginia, Charlottesville
2009-2013	Research Ecologist, Smithsonian Institution
2008-2009	Charles Bullard Fellow of Forest Science, Harvard Forest, Harvard University
2007-2010	Freelance Science Writer contracted by US Forest Service, PNW Research Station

Professional Preparation:

University of Massachusetts	Amherst, MA	Natural Resources	B.S.	1999
Oregon State University	Corvallis, OR	Forest Policy	M.S.	2004
Oregon State University	Corvallis, OR	Forest Ecology	Ph.D.	2009

Research Grants:

2026-	New York State Energy Research and Development Authority (NYSERDA): "Indirect land-use effects of New York's Low Carbon Fuel Standard" (PI: Thompson) \$40K
2023-2025	Salata Institute for Climate and Sustainability: Harvard University "The Policy and Ecology of Nature-based Climate Change Mitigation." (PI: M. Holbrook, Co-PIs: J. Aldy from Harvard Kennedy School, and J.R. Thompson) \$215K
2024-2027	Highstead Foundation: "Conservation effectiveness in New England" (PI: Thompson) \$150K
2023-2027	NSF: Dynamics of Integrated Social and Ecological Systems (DISES) "Co-produced modeling of socio-environmental dynamics of financialized forestlands and alternative future scenarios" (PI: Abrams, U. Georgia); \$1.6m, Thompson portion \$480K

2023-2024	Google/DeepMind “Using remote sensing and deep learning to map forest composition” (PI Thompson) \$60K
2022-2025	USDA NIFA: Natural Resource Economics “Toward a comprehensive understanding of the economic and ecological impacts of land protection” (PI: Thompson) \$500K
2022-2023	Mass Audubon “Energy and Ecosystem Tradeoffs when siting alternative energy” (PI: Thompson) \$120K
2022-2023	USDA: Ecosystem Monitoring Fund “Integrating field and Landsat data to Monitor Forest Conditions in the New York City Watershed” (PI: Thompson) \$25K
2021-2023	USDA: Forest Service: GLRI “Past and future land use change within watersheds of the upper Great Lakes” (PI: Sturdivant, Forest Service) \$300K; Thompson portion \$69K
2020-2023	Dept of Energy “Operation of the Harvard Forest Core Site in the AmeriFlux Network Management Project” \$1.1m (PI Munger; HF Site PI: Thompson)
2020-2023	USDA: CARES “Adaptive forest management options for white ash influenced by the invasive emerald ash borer” (PI: Orwig; Co-PI: Thompson) \$300K
2020-2023	NSF: REU Site Grant: “Summer Research Program in Ecology at Harvard Forest” (PI Barker-Plotkin, Harvard) \$583K
2019-2025	NSF: LTER-HFR-VI: “From microbes to macrosystems: Understanding global change drivers and their interactions” (PI: Thompson) \$7,100,000
2020-2021	NSF: RAPID: “RAPID: Is Carbon Starvation a Proximal Cause of Tree Mortality from Defoliation” (PI: Thompson) \$100K
2019-2020	Commonwealth of Massachusetts: Massachusetts Global Warming Solutions Act – Decarbonization Roadmap Study (PI Thompson Lead of Land-use sector with Cadmus Inc) \$230K
2019-2020	Smithsonian Tropical Research Institute: “Reforestation scenarios for the Panama Canal Watershed” (PI: Thompson) \$105K
2017-2022	NASA: Carbon Cycle Science/ USDA NIFA: “Fragmentation effects on forest productivity across managed ecosystem gradients” (PI: Huttyra of BU) \$1m; Co-PI Thompson portion: \$360K
2018-2022	NSF: Coupled Human and Natural Systems: “The consequences of climate change-driven land-use regime shifts in New England forests” (PI: Thompson) \$900K
2018 - 2023	Highstead Foundation: “Wildlands and Woodlands. Translating the Vision into Sustained and Strategic Activities” (PI: Thompson) \$350K
2014-2019	NSF: DEB Ecosystems: “Assessing evidence for a climate induced biome shift in the Klamath EcoRegion” (PI J.R. Thompson) \$965K
2013-2018	NSF: RCN-SEES: Research Coordination Network “Scenarios, Services, and Society” (PI D.R. Foster; Thompson Co-PI and Science Director), \$750K
2012-2018	NSF: LTER HFR: “New Science, Synthesis, Scholarship and Strategic Vision for Society: Harvard Forest ” (PI D.R. Foster) Total \$5.8mil Thompson Portion \$550K
2013-2014	Smithsonian: Grand Challenge Award: “BiodiversiTREE @ the Smithsonian” (PI: J. Parker SERC) \$200K
2012-2013	Smithsonian: Grand Challenge Award; “Integrating traditional ecological knowledge and modern forest science toward resilient tribal management” PI: J Kress) Thompson Portion \$110K
2012	Center for Tropical Forest Science; “Gap model simulations of long-term impacts of deer over-abundance on forest successional dynamics” (PI: Thompson) \$12K
2011-2012	NSF: LTER Supplemental: “Future scenarios of forest change in Massachusetts” (PI: Foster, Harvard) \$44K

- 2011-2012 Smithsonian Institution “Estimating the carbon storage potential of Mid-Atlantic forests based on remnant old-growth sites” (PI: Thompson) \$166K
- 2010-2012 NSF: LTER Supplemental: “Landscape vulnerability and resilience to global change – Regional scenario analysis across LTER sites” (PI: Foster, Harvard) \$50K
- 2010 Smithsonian Global Earth Observatory (SIGEO); “Herbivory effects on overstory tree growth – A dendrochronological approach (PI: W. McShea Smithsonian) \$24K
- 2009-2011 NSF: RAPID: “Ecological patterns and consequences of catastrophic mortality of a foundation species due to abrupt climatic and biotic stresses” (PI: Foster, Harvard) \$100K
- 2009-2010 NSF: LTER LNO: “Workshop Grant: Future scenarios of land use and climate change” (PI: Thompson) \$30K

Peer Reviewed Publications:

Starting in 2017, I adopted the convention of placing my name at the end of the author list when the work was based primarily in my lab and under my direction. Underline indicates an advisee in my lab. † indicates senior/corresponding author. PDFs of all papers are freely available on my website.

In Review & Revision:

1. Kalinin, A., K. Sims, and **J. R. Thompson**. Ecological effectiveness of protected areas in New England.
2. Song, Y., J. E. Aldy, N. M. Holbrook, and **J. R. Thompson**. Entry choices and performance of forest-based carbon offset projects in regulated and voluntary carbon markets. Preprint available.
3. Gao, X., M. A. Friedl, A. D. Richardson, V. J. Pasquarella, J. O’Keefe, A. S. Bailey, and **J. R. Thompson**. Asymmetric Spring and Autumn Phenology Control Growing Season Length in Temperate Deciduous Forests. Preprint: <https://doi.org/10.1101/2025.10.21.683688>
4. Gao, X., M. Friedl, B. Reich, A. Terando, M. Tulbure, **J. R. Thompson**, M. Blumstein, and J. M. Gray. The effect of chilling is too small to constrain spring phenology advancement under near-future warming.
5. Gao, X., V. J. Pasquarella, D. Laflower, and **J. R. Thompson**. Mapping Forest Communities, Including Species Composition, Structure, and Carbon, at 10-m Resolution Using Geospatial Embeddings. Preprint: <https://doi.org/10.2139/ssrn.5936862>
6. Gao, X., A. J. Daigneault, J. Leahy, J. Abrams, D. Laflower, V. J. Pasquarella, J. Zhao, J. Plisinski, Y. Song, and **J. R. Thompson**†. Financialization of Commercial Timberlands Reduces Forest Carbon Storage. In review, *Proceedings of the National Academy of Sciences*.
7. **Thompson, J. R.**, D. Laflower, J. Plisinski, and M. Graham MacLean. Decomposing the unrealized forest carbon sink: land use, disturbance, and policy levers in a subnational net-zero pathway. In preparation for *Global Change Biology*.
8. Rastetter, E. B., B. L. Kwiatkowski, K. L. Griffin, S. Evans, H. Genet, K. R. Jay, J. B. Nippert, K. O’Keefe, S. S. Perakis, A. A. Barker Plotkin, S. Porder, S. S. Roley, R. W. Ruess, **J. R. Thompson**, K. R. Wilcox, R. D. Yanai, and G. W. Kling. Carbon Storage Declines with Increased Day-to-Day Variability in Temperature, Humidity, Precipitation, and Light in Most Terrestrial Ecosystems. In review, *Ecological Monographs*.
9. Stoyanova, H., L. Hutrya, and **J. R. Thompson**. Spatiotemporal Variability of Soil Carbon Fluxes, Vegetation Distribution, and Microclimate in Solar Arrays. In review, *Earth’s Future*.

In Press & Published:

10. Kenney, M. A., et al. [incl. **J. R. Thompson**; 175 co-authors]. 2026. Research priorities for robust climate assessments in the United States. *Earth’s Future* 14: e2025EF007336.
doi:10.1029/2025EF007336

11. Meng, L., P. H. Templer, L. R. Hutyra, **J. R. Thompson**, and C. T. Driscoll. 2025. Regional Projections of the Impacts of Future Urbanization and Climate Change on Biogeochemical Cycles in New England Landscapes. *Research* 8: 1043.
12. Gao, X., Z. Zhou, S. V. Ollinger, J. H. Matthes, W. Jiao, and **J. R. Thompson**. 2025. pnetr: An R package for the PnET family of forest ecosystem models. *Methods in Ecology and Evolution* 10.1111/2041-210X.70076.
13. Lee, L. G., V. J. Pasquarella, B. Glass, L. L. Morreale, N. Chung, X. Gao, and **J. R. Thompson**. “A comparison shopper’s guide to forest datasets” 2025. *Landscape Ecology* 40:216.
14. Barker Plotkin, A., B. Keever, M. Graham MacLean, G. Shiffrian, and **J. R. Thompson**. 2025. Defoliation and demography interact to affect oak survival in Southern New England. *Forest Ecology and Management* 579: 122507.
15. **Thompson, J. R.**, K. Sims, A. Kalinin, L. Lee, V. Pasquarella, and J. Plisinski. “Do working forest easements work for conservation” 2024. *Environmental Research Letters* 19: 114033.
16. Morreale, L. L., **J. R. Thompson**, V. Pasquarella, and L. Hutyra. “Edge cases: Fragmentation and ecosystem processes in temperate forest landscapes” 2024. *Frontiers in Ecology and the Environment*. doi:10.1002/fee.2828
17. Tumber-Dávila, S. J., T. Lucey, E. Boose, D. LaFlower, A. León-Sáenz, B. Wilson, M. MacLean, and **J. R. Thompson**. 2024. Hurricanes pose substantial risk to New England’s forest carbon stocks. *Global Change Biology*. 30: e17259. 10.1111/gcb.17259
18. Liang, Y., E. J. Gustafson, J. M. Serra-Diaz, M. J. Duveneck, and **J. R. Thompson**. 2023. “What is the role of disturbance in catalyzing spatial shifts in forest composition and tree species biomass under climate change?” *Global Change Biology* 10.1111/gcb.16517: 18 pp.
19. Faison, E., D. LaFlower, L. Morreale, D. R. Foster, and **J. R. Thompson**. 2023. “Adaptation and mitigation capacity of wildland forests in the northeastern United States” *Forest Ecology and Management*. 544:121145.
20. Kalinin, A., K. Sims, and **J. R. Thompson**. 2023. "Does land conservation raise property taxes? Evidence from New England cities and towns" *Journal of Environmental Economics and Management*. 119:102782
21. Markowski-Lindsay, M., B. J. Butler, M. J. Duveneck, J. Laflower, M. Graham MacLean, D. Orwig, and **J. R. Thompson**. 2023. “Forester and logger response to Emerald Ash Borer in Massachusetts and Vermont: A secondary disturbance” *Journal of Forestry*. 121:319-332.
22. Pasquarella, V., L. Morreale, J. Hastings, and **J. R. Thompson**. 2023. “Not-so-random forests: Comparing voting and decision tree ensembles for characterizing partial harvest events in complex forested landscapes” *Journal of Applied Earth Observation and Geoinformation*
23. Sims, K., L. Lee, M. Lurie, N. Estrella-Luna, and **J. R. Thompson**. 2022. "Environmental justice criteria for new land protection can inform efforts to address disparities in access to nearby open space" *Environmental Research Letters*. 17: 064014.
24. Campbell, J., C. Driscoll, J. A. Jones, E. Boose, H. Dugan, P. Groffman, C. R. Jackson, J. Jones, G. Juday, N. Lottig, B. Penaluna, R. Ruess, K. Suding, **J. R. Thompson**, and J. K. Zimmerman. 2022. “Forest and freshwater ecosystem responses to climate change and variability at U.S. LTER sites” *BioScience*. Vol. 72 No. 9
25. Rastetter, E. B., B. Kwiatkowski, D. Kicklighter, A. Barker Plotkin, H. Genet, T. Mann, J. Nippert, K. O’Keefe, S. Perakis, S. Porder, S. Roley, R. Ruess, **J. R. Thompson**, W. Wieder, K. Wilcox, and R. Yanai. 2022. “Nitrogen and phosphorus constrain carbon gain in terrestrial ecosystems under climate change: the roles of nutrient redistribution and accumulation and of changes in plant and soil stoichiometry” *Ecological Applications*. DOI: 10.1002/eap.2684

26. Hall, J. S., J. S. Plisinski, S. K. Mladinich, M. Van Breugel, H. R. Lai, G. P. Asner, K. Walker, and **J. R. Thompson**. 2022. “Deforestation scenarios show the importance of secondary forest for meeting Panama’s carbon goals” *Landscape Ecology* 37(3):672-690.
27. Morreale, L. L., **J. R. Thompson**, X. Tang, A. B. Reinmann, and L. R. Hutyra. 2021. “Elevated growth and biomass along temperate forest edges” *Nature Communications* 12: article 7181, 8 pp.
28. Holt, J. R., J. R. Smetzer, M. E. Borsuk, D. Laflower, D. A. Orwig, and **J. R. Thompson**. 2021. “Emerald ash borer intensifies harvest regimes on private land” *Ecological Applications* e2508:36p
29. Cinoglu, D., H. E. Epstein, A. J. Tepley, K. J. Anderson-Teixeira, and **J. R. Thompson**. 2021. “Climatic Aridity Shapes Post-Fire Interactions between *Ceanothus* spp. and Douglas-Fir (*Pseudotsuga menziesii*) across the Klamath Mountains” *Forests* 12: article 1567, 15 pp.
30. Barker Plotkin, A., M. Blumstein, D. Laflower, V. J. Pasquarella, J. L. Chandler, J. S. Elkinton, and **J. R. Thompson**. 2021. “Defoliated trees die below a critical threshold of stored carbon” *Functional Ecology* 10.1111/1365-2435.13891: 12 pp.
31. **Thompson, J. R.**, J. Plisinski, K. Fallon Lambert, M. J. Duveneck, L. Morreale, M. McBride, M. Graham MacLean, M. Weis, and L. Lee. 2021. “Spatial simulation of co-designed land-cover change scenarios in New England: Alternative futures and their consequences for conservation priorities” *Earth's Future* 8:e2019EF001348, 23 pp.
32. Holt, J. R., B. J. Butler, M. E. Borsuk, M. Markowski-Lindsay, M. G. MacLean, and **J. R. Thompson**. 2021. “Using the Theory of Planned Behavior to Understand Family Forest Owners’ Intended Responses to Invasive Forest Insects”. *Society and Natural Resources*. DOI: 10.1080/08941920.2021. 18 pp.
33. MacLean, M. G., M. J. Duveneck, J. Plisinski, L. L. Morreale, D. Laflower, and **J. R. Thompson**. 2021. “Forest carbon trajectories: Consequences of alternative land-use scenarios in New England” *Global Environmental Change* 69: article 102310, 28 pp.
34. Bahlai, C. A., C. Hart, M. T. Kavanaugh, J. D. White, R. W. Ruess, T. J. Brinkman, H. W. Ducklow, D. R. Foster, W. R. Fraser, H. Genet, P. M. Groffman, S. K. Hamilton, J. F. Johnstone, K. Kielland, D. A. Landis, M. C. Mack, O. Sarnelle, and **J. R. Thompson**. 2021. “Cascading effects: insights from the U.S. Long Term Ecological Research Network” *Ecosphere* 12, 29 pp.
35. Swanson, F. J., D. R. Foster, C. T. Driscoll, **J. R. Thompson**, and L. E. Rustad. 2021 “How LTER Site Communities Can Address Major Environmental Challenges”. In: R. B. Waide and S. E. Kingsland (eds) “The Challenges of Long Term Ecological Research: A Historical Analysis” *Archimedes (New Studies in the History and Philosophy of Science and Technology)*, vol 59. Springer
36. Vellend, M., **J. R. Thompson**, V. Danneyrolles, and F. Rousseu. 2020. “Changes in landscape-scale tree biodiversity in the north-eastern USA since European settlement” *Global Ecology and Biogeography* 10.1111/geb.13248: 8 pp.
37. Reinmann, A. B., I. A. Smith, **J. R. Thompson**, and L. R. Hutyra. 2020. “Urbanization and fragmentation mediate temperate forest carbon cycle response to climate” *Environmental Research Letters* 15: article 114036, 12 pp.
38. Finzi, A. C., M.-A. Giasson, A. Barker Plotkin, J. D. Aber, E. R. Boose, E. A. Davidson, M. C. Dietze, A. M. Ellison, S. D. Frey, E. Goldman, T. F. Keenan, J. M. Melillo, J. W. Munger, K. J. Nadelhoffer, S. V. Ollinger, D. A. Orwig, N. Pederson, A. D. Richardson, K. Savage, J. Tang, **J. R. Thompson**, C. A. Williams, S. C. Wofsy, Z. Zhou, and D. R. Foster. 2020. “Carbon budget of the Harvard Forest Long-Term Ecological Research site: pattern, process, and response to global change” *Ecological Monographs* 90(4):e01423.
39. Guswa, A. J., B. Hall, C. Cheng, and **J. R. Thompson**. 2020. “Co-designed Land-use Scenarios and their implications for storm runoff and streamflow in New England” *Environmental Management* 66:785-800.

40. Maxwell, C. J., J. M. Serra-Diaz, R. M. Scheller, and **J. R. Thompson**. 2020. “Co-designed management scenarios shape the responses of seasonally dry forests to changing climate and fire regimes” *Journal of Applied Ecology* 57(7):1328-1341.
41. MacLean, M. G., J. Holt, M. E. Borsuk, M. Markowski-Lindsay, B. J. Butler, D. B. Kittredge, M. J. Duveneck, D. Laflower, D. A. Orwig, D. R. Foster, and **J. R. Thompson**. 2020. Potential Impacts of Insect-Induced Harvests in the Mixed Forests of New England. *Forests*. 11: 498, 19 pp.
42. Holt, J. R., M. E. Borsuk, B. J. Butler, D. B. Kittredge, D. Laflower, M. Graham MacLean, M. Markowski-Lindsay, D. Orwig, and **J. R. Thompson**. 2020. Landowner functional types to characterize response to forest insects. *People and Nature*. 2(1):204-214.
43. Nolte, C., S. Meyer, K. Sims, and **J. R. Thompson**. 2019. “Voluntary, permanent land protection reduces forest loss and development in a rural-urban landscape” *Conservation Letters*. 1:9. <https://doi.org/10.1111/conl.12649>
44. Sims, K. R. E., **J. R. Thompson**, S. R. Meyer, C. Nolte, and J. S. Plisinski. 2019. “Assessing the local economic impacts of land protection” *Conservation Biology* 33:1035-1044.
45. Duveneck, M., and **J. R. Thompson**. 2019. “Social and biophysical determinants of future forest conditions in New England” *Global Environmental Change* 55:115-129.
46. Hastings, S., D. Laflower, and **J. R. Thompson**. Forest carbon offsets include co-benefits and co-detriments. 2019. *Frontiers in Ecology and the Environment*. 17 (3):143:144.
47. Markowski-Lindsay, M., M. E. Borsuk, B. J. Butler, M. J. Duveneck, J. Holt, D. B. Kittredge, D. Laflower, M. Graham MacLean, D. Orwig, and **J. R. Thompson**. 2019. Compounding the disturbance: family forest owner reactions to invasive insects. *Ecological Economics* 167:8-16.
48. Helcoski, R., A. J. Tepley, N. Pederson, J. C. McGarvey, V. Meakem, V. Herrmann, **J. R. Thompson**, and K. J. Anderson-Teixeira. 2019. Growing season moisture drives interannual variation in woody productivity of a temperate deciduous forest. *New Phytologist* 13 pp.
49. Smith, I. A., L. Hutya, A. B. Reinmann, **J. R. Thompson**, and D. W. Allen. 2019. Evidence for edge enhancements of soil respiration in temperate forests. *Geophysical Research Letters* 46:10-20.
50. Simoes, J., M. Markowski-Lindsay, B. Butler, D. Orwig, **J. R. Thompson**, and D. B. Kittredge. Assessing New England Family Forest Owners’ Invasive Insect Awareness. 2019. *Journal of Extension*. 57(3):1-16
51. McBride, M., M. J. Duveneck*, K. Fallon Lambert, K. A. Theoharides, and **J. R. Thompson**. 2019. Perspectives of resource management professionals on the future of New England’s landscape: Challenges, barriers, and opportunities. *Landscape and Urban Planning*. 188:30-42.
52. McKenzie, P. F., M. J. Duveneck, L. L. Morreale, and **J. R. Thompson**. 2019. Local and global parameter sensitivity within an ecophysiologically based forest landscape model. *Environmental Modelling and Software* 117:1-13.
53. Helcoski, R., A. Tepley, J. McGarvey, E. Gonzalez, V. Meakem, **J. R. Thompson**, and K. A. Anderson-Teixeira. 2019. No significant increase in tree mortality following coring in a temperate hardwood forest. *Tree Ring Research*. 75(1):67-72
54. Lacher, I., M. McShea, T. Akre, and **J. R. Thompson**. 2019. Engaging regional stakeholders in scenario planning for the long-term provisioning of ecosystem services in northwestern Virginia. *Case Studies in the Environment* 3:1-27.
55. Lopez Ortiz, M. J., T. Marcey, M. Lucash, D. Hibbs, J. P. A. Shatford, and **J. R. Thompson**. 2019. Post-fire management affects species composition but not Douglas-fir regeneration in the Klamath Mountains. *Forest Ecology and Management* 432:1030-1040.
56. Serra Diaz, J. M., C. Maxwell, M. Lucash, R. M. Scheller, D. Laflower, A. Miller, A. Tepley, H. Epstein, K. Anderson Teixeira, and **J. R. Thompson**. 2018. Disequilibrium of fire-prone forests sets

- the stage for a rapid decline in conifer dominance during the 21st century. *Scientific Reports* 8:6749.
57. Smith, I., L. R. Hutyra, A. Reinmann, J. Marrs, and **J. R. Thompson**. 2018. Piecing together the fragments: Elucidating edge effects on forest carbon dynamics. *Frontiers in Ecology and the Environment*. 16(213-221)
 58. Miller, A., **J. R. Thompson**, A. Tepley, and K. Anderson-Teixeira. 2018. Alternative stable equilibria and critical thresholds created by fire regimes and plant responses in a fire-prone community. *Ecography*. 42(1): 55-66.
 59. Liang, Y., M. Duveneck, E. Gustafson, J. Serra-Diaz, and **J. R. Thompson**. 2018 How disturbance, competition and dispersal interact to prevent tree range boundaries from keeping pace with climate change. *Global Change Biology* 24:335-351
 60. **Thompson, J. R.**, J. Plisinski, P. Olofson, C. Holden, and M. Duveneck. 2017. Forest loss in New England: A projection of recent trends. *PloS ONE* 12(12): e0189636.
 61. Duveneck, M. D., and **J. R. Thompson**. 2017. Climate change imposes phenological tradeoffs on forest net primary productivity. *Journal of Geophysical Research – Biogeosciences* 122:2298-2313.
 62. Kittredge, D. B., **J. R. Thompson**, L. Morreale, A. Short, and L. Hutyra. 2017. Three decades of forest harvesting along a suburban–rural continuum. *Ecosphere* 8(7)
 63. McBride, M. F., K. F. Lambert, E. S. Huff, K. Theoharides, P. Field, and **J. R. Thompson**. Increasing the effectiveness of participatory scenario development through co-design. 2017. *Ecology and Society* 22(3)
 64. Tepley, A. J., **J. R. Thompson**, H. Epstein, and K. Anderson-Teixeira. 2017. Vulnerability to forest loss through altered post-fire recovery dynamics in a warming climate in the Klamath Mountains. *Global Change Biology* 23(10): 4117-4132.
 65. Shifley, S., H. He, H. Leschke, W. Wang, W. Jin, E. Gustafson, **J. R. Thompson**, F. Thompson, W. Dijak, and J. Yang. 2017. The past and future of modeling forest dynamics: from growth and yield curves to forest landscape models. *Landscape Ecology* 32:1307-1325.
 66. **Thompson, J. R.** 2017. Reciprocity in ecological understanding *Ecology* 98(3):1939-1940.
 67. Duveneck, M. D., **J. R. Thompson**, E. Gustafson, and A. de Bruijn. 2017. Recovery dynamics and climate change effects to future New England forests. *Landscape Ecology*. 32:1385–1397
 68. **Thompson, J. R.**, C. Canham, L. Morreale, D. B. Kittredge, and B. Butler. 2017. Social and biophysical variation in regional timber harvest regimes. *Ecological Applications* 27:942-955.
 69. Thorn, A., **J. R. Thompson**, and J. Plisinski. 2016. Patterns and predictors of recent forest conversion in New England. *Land*. 5(3), 30-39
 70. Xiao, J., Y. Liang, H. He, **J. R. Thompson**, W. Wang, J. Fraser, and Z. Wu. 2016. The formulations of site-scale processes affect landscape-scale forest change predictions: A comparison between LANDIS PRO and LANDIS-II forest landscape models. *Landscape Ecology* 32(7):1347–1363
 71. Mallampalli, V. R., G. Mavrommati, **J. R. Thompson**, M. J. Duveneck, S. R. Meyer, A. Ligmann-Zielinska, C. Druschke, K. Hychka, M. Kenny, K. Kok, and M. E. Borsuk. 2016. Methods for translating narrative scenarios into quantitative assessments of land-use change. *Environmental Modeling and Software*. 82:7–20.
 72. **Thompson, J. R.**, K. F. Lambert, D. R. Foster, M. Blumstein, E. Broadbent, A. Almeyda, and Y. Fan. 2016. The consequences of four land-use scenarios for forest ecosystems and the services they provide. *Ecosphere*. 7(10):e01469.
 73. **Thompson, J. R.**, E. Simons-Legaard, K. R. Legaard, and J. B. Domingo. 2016. A LANDIS-II simulation extension for incorporating land use and other disturbances. *Environmental Modeling and Software*. 75:202-205.

74. Kittredge, D. B., and **J. R. Thompson**. 2016. Timber harvesting behavior in Massachusetts: Does price matter to private landowners? *Small Scale Forestry*. 15:93-108.
75. Anderson-Teixeira, K., J. C. McGarvey, H. Muller-Landau, J. Park, E. Gonzalez, A. Bennett, N. Bourg, **J. R. Thompson**, S. M. McMahon, and W. J. McShea. 2015. Scaling of ecological form and function in a closed-canopy forest subject to variable environmental conditions. *Functional Ecology*. 29:1587-1602.
76. Blumstein, M., and **J. R. Thompson**. 2015. Land-use impacts on the quantity and configuration of ecosystem service provisioning in Massachusetts, USA. *Journal of Applied Ecology* 52(4):1009-1016.
77. Duveneck, M. D., **J. R. Thompson**, and T. B. Wilson. 2015. An imputed forest composition map for New England screened by species range boundaries. *Forest Ecology and Management*. 347 107-115.
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79. **Thompson, J. R.** 2014. The changing nature of the Maine woods. (Book Review) *Rhodora*. 116(967):359-362.
80. **Thompson, J. R.** 2014. Modeling the dynamics of a forest giant. In: *Hemlock: A Forest Giant on the Edge*. D. R. Foster, editor. Yale University Press. ISBN: 978-0300-1793-85
81. Oswald, W., D. R. Foster, and **J. R. Thompson**. 2014. Hemlock Prehistory to Present. In: *Hemlock: A Forest Giant on the Edge*. D. R. Foster, editor. Yale University Press. ISBN: 978-0300-1793-85; Reprinted in *Arnoldia* 71(3) 13-25.
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85. McGarvey, J., N. Bourg, **J. R. Thompson**, W. McShea, and X. Shen. 2013 The impacts of twenty years of deer exclusion on woody vegetation in a Mid-Atlantic temperate deciduous forest. *Northeastern Naturalist*. 20:451:468.
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89. **Thompson, J. R.**, D. R. Foster, R. Scheller, and D. B. Kittredge. 2011. The influence of land use and climate change on forest biomass and composition in Massachusetts, USA. *Ecological Applications*. 21(7): 2425-2444.
90. **Thompson, J. R.**, T. A. Spies, and K. Olsen. 2011. Canopy damage to conifer plantations within a mixed-severity wildfire varies with stand age. *Forest Ecology and Management*. 262:355-360.

91. Halofsky, J., D. Donato, D. Hibbs, J. Campbell, M. Cannon, J. Fontaine, **J. R. Thompson**, R. G. Anthony, B. T. Bormann, L. J. Kayes, B. E. Law, D. L. Peterson, and T. A. Spies. 2011. Mixed severity fire regimes: Lessons from the Klamath-Siskiyou Ecoregion. *Ecosphere*. 2(40)
92. **Thompson, J. R.**, and T. A. Spies. 2010. Factors associated with crown damage following recurring mixed-severity wildfires and post-fire management. *Landscape Ecology*. 25:775-789
93. **Thompson, J. R.**, and T. A. Spies. 2009. Vegetation and weather explain variation in crown damage in a large mixed-severity wildfire. *Forest Ecology and Management*. 258:1684-1694.
94. **Thompson, J. R.**, S. Duncan, and K. N. Johnson. 2009. Is there potential for the historical range of variability to guide conservation given the social range of variability? *Ecology and Society*. 14(1): 18.
95. **Thompson, J. R.** 2009. Salvaging what, exactly? *Conservation Biology*. 23(5): 1333-1334.
96. **Thompson, J. R.**, T. A. Spies, and L. M. Ganio. 2007. Reburn severity in managed and unmanaged vegetation in a large wildfire. *Proceedings of the National Academy of Sciences*. 104:10743-10748.
97. **Thompson, J. R.**, K. N. Johnson, M. Lennette, T. Spies, and P. Bettenger. 2006. Historical disturbance regimes as a reference for forest policy in a multi-owner province: A simulation experiment. *Canadian Journal of Forest Research*. 36:401-417.
98. **Thompson, J. R.**, and S. Duncan. 2006. Forest plans and ad hoc scientist groups in the 1990s: Coping with the Forest Service viability clause. *Forest Policy and Economics*. 9:32-41
99. Shelby, B., **J. R. Thompson**, M. Brunson, and R. Johnson. 2005. Changes in recreation quality after harvest: A decade of ratings for six silviculture treatments. *Journal of Environmental Management*. 75(3):239-246.
100. **Thompson, J. R.**, M. Anderson, and K. N. Johnson. 2004. Ecosystem management across ownerships: The potential for collision with antitrust laws. *Conservation Biology*. 18(6):1475-1481.
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Policy & Public Impact:

Policy Roles

2019-2020	Land Sector Lead, Massachusetts 2050 Decarbonization Roadmap (Commonwealth of Massachusetts)
2019-Present	Expert Consultant, Massachusetts Executive Office of Energy and Environmental Affairs, for development of the 2050 Clean Energy and Climate Plan
2021-Present	Massachusetts' Forest as a Climate Solution, Expert Assessment Team
2023	Member, Climate Forestry Committee, convened by the Healey-Driscoll Administration (ten experts) to develop climate-oriented forest management guidelines for Massachusetts
2023-Present	Lead, Northeast Section, Core Writing Team, <i>Braiding Indigenous Knowledge and Western Science for Forest Landscape Adaptation to Climate Change</i> , commissioned under Executive Order 14072, <i>Strengthening the Nation's Forests, Communities, and Local Economies</i>
2025-2026	Lead author, PERC analyses of pathways to protect Maine's late-successional and old-growth forests, informing the state's LSOG conservation strategy process under LD 1529 [confirm your formal role]

Reports

1. "Conserving the Last Mature Forests in Maine: Pathways to protect the state's remaining late-successional and old-growth forests" **Thompson, J. R.**, A. Daigneault, and J. Plisinski. 2026. Property and Environment Research Center (PERC).

2. “Forest Carbon Study: The Impact of Alternative Land-Use Scenarios on Terrestrial Carbon Storage and Sequestration in Massachusetts” **Thompson, J. R.**, D. M. Laflower, J. S. Plisinski, and M. Graham MacLean. 2025. Massachusetts Executive Office of Energy and Environmental Affairs.
3. “Growing Solar, Protecting Nature”. **Thompson, J. R.***, M. Manion*, K. Pickrell, L. Lee, H. Ricci, J. Collins, J. Plisinski, R. Jones, G. Kwok, D. Powell, and W. Rhatigan. 2023. Mass Audubon and Harvard Forest. DOI: <https://doi.org/10.5281/zenodo.8403839>. *Co-Lead Authors
4. “Forests as a Climate Solution: A Recommendations for the management of Massachusetts’ forests” 2023. The Healey-Driscoll Administration convened the Climate Forestry Committee, a group of ten experts (including Thompson), to inform the development of climate-oriented management guidelines that increase carbon storage and resilience to climate change in Massachusetts.
5. “Braiding Indigenous Knowledge and Western Science for Forest Landscape Adaptation to Climate Change: An Ecocultural State of Science Report” Eisenberg, C., S. Prichard, ... **J. R. Thompson**, and 35 co-authors. 2023. A report commissioned by the U.S. Dept. of Interior as part of President Biden’s Executive Order 14072 *Strengthening the Nation’s Forests, Communities, and Local Economies*. Thompson leads the Northeast Section of the Core Writing Team
6. “Wildlands in New England. Past, Present, and Future” Foster, D., E. E. Johnson, B. R. Hall, J. Leibowitz, E. H. Thompson, B. Donahue, E. K. Faison, J. Sayen, D. Publicover, N. Sferra, L. C. Irland, **J. R. Thompson**, R. Perschel, D. A. Orwig, W. S. Keeton, M. L. Hunter Jr., S. A. Masino, and L. Howell. 2023. Harvard Forest Paper 34. Harvard University.
7. “New England’s Climate Imperative: Our Forests as a Natural Climate Solution” Meyer, S. R.* , K. Kapur*, **J. R. Thompson***, D. R. Foster, R. Perschel, N. St. Clair Knobloch, J. Leibowitz, B. Donahue, A. Giffen, T. Vaughn, T. Whalen, B. Labich, A. Colnes, and J. Ammermuller. 2022. Highstead Foundation ISBN: 979-8-218-09736-3 *Co-Lead Authors
8. “The Role of Terrestrial Carbon in Achieving Net Zero Emissions: Market Approaches and Authority” Joroff, A., L. Cohen, and **J. R. Thompson**. 2021. Harvard Environmental Law and Policy Clinic and the Harvard Forest. Report to the Commonwealth of Massachusetts.
9. “Land Sector Report: Massachusetts Decarbonization Study” **Thompson, J. R.**, D. Laflower, J. Plisinski, and M. Graham MacLean. 2020. Massachusetts 2050 Decarbonization Roadmap. 62 pp.
10. “Voices from the Land: Listening to New Englanders’ Views of the Future” Fallon Lambert, K., M. McBride, M. Weiss, **J. R. Thompson**, K. A. Theoharides, and P. Field. 2018. Harvard Forest, Harvard University and the Science Policy Exchange. ISBN: 978-962-14667-5
11. “Wildlands and Woodlands, Farmlands and Communities: Broadening the Vision for New England” Foster, D. R., K. Fallon Lambert, D. B. Kittredge, B. Donahue, C. M. Hart, W. Labich, S. R. Meyer, **J. R. Thompson**, M. Buchanan, J. Levitt, R. Perschel, K. Ross, G. Elkins, C. Daigle, B. Hall, E. Faison, A. W. D’Amato, R. T. T. Forman, P. Del Tredici, L. Irland, B. Colburn, D. Orwig, J. Aber, A. Berger, C. Driscoll, W. Keeton, R. J. Lilieholm, N. Pederson, A. Ellison, M. Hunter, and T. Fahey. 2017. Harvard Forest, Harvard University, Petersham, MA. ISBN 978-0674185036
12. “Changes to the Land: Four Scenarios for the Future of the Massachusetts Landscape” **Thompson, J. R.**, K. Fallon-Lambert, D. R. Foster, M. Blumstein, E. N. Broadbent, and A. M. Almeyda Zambrano. 2014. 50p. Harvard Forest, Harvard University. ISBN:978-0615-9852-68.
13. “Wildland and Woodlands: A Forest Vision for New England” Foster, D. R., B. Donahue, D. Kittredge, K. Fallon-Lambert, M. Hunter, B. Hall, L. Irland, R. Lilieholm, D. Orwig, A. D’Amato, E. Colburn, **J. R. Thompson**, J. Levitt, A. Ellison, W. Keeton, J. Aber, C. Cogbill, C. Driscoll, T. Fahey, and C. Hart. 2010. Harvard University Press. Cambridge, MA. ISBN: 978-1-4507-0603-250500

Selected Media & Public Engagement

- TechTimes, [“National Climate Assessment Void Remains: Scientists Published Roadmap Planners Cannot Use Alone,”](#) Sept 23, 2026 (Kenney et al. 2026, Earth’s Future).
- American Meteorological Society, [“‘U.S. Climate Collection’ Publishes First Paper,”](#) Sept 22, 2026 (Kenney et al. 2026, Earth’s Future).
- UC Irvine School of Social Ecology, [“Researchers call for urgent overhaul of U.S. climate assessments,”](#) Sept 22, 2026 (Kenney et al. 2026, Earth’s Future).
- Maine Public (P. McGuire), “Maine’s old growth forests are disappearing. This program could help save them,” July 10, 2026
- Piscataquis Observer, [“New research outlines strategies to protect Maine’s last mature forests,”](#) June 28, 2026 (Thompson et al. 2026, PERC report).
- Bangor Daily News (BDN Community), “New research outlines strategies to protect Maine’s last mature forests,” June 16, 2026
- From the Ground Up (interview by M. Latshaw), [“By the Numbers—Conservation’s Value for Communities,”](#) Issue 8, Autumn 2025 (Aug 17, 2025).
- Energy Policy Now podcast, Kleinman Center for Energy Policy, University of Pennsylvania (host A. Stone), [“Renewable Energy’s Land Use Reckoning,”](#) June 3, 2025 (guests G. Wu and J. R. Thompson).
- ScienceDaily, [“Hurricanes jeopardize carbon-storing New England forests,”](#) Apr 24, 2024 (Tumber-Dávila et al. 2024, Global Change Biology).
- Harvard Gazette (A. J. Manning), [“More solar energy needed, but clearing forests for panels may not be way to do it,”](#) Oct 13, 2023 (Growing Solar, Protecting Nature report, Mass Audubon and Harvard Forest, 2023).
- NPR (J. Simon), [“In some fights over solar, it’s environmentalist vs. environmentalist,”](#) June 20, 2023 (quoted; carried by KNKX).
- Chinese Academy of Sciences, [“Disturbance of Certain Intensity can Accelerate Spatial Shifts in Tree Species Composition and Biomass,”](#) Jan 2023 (Liang et al. 2023, Global Change Biology).
- Macleod, K. K., and J. R. Thompson, [“Forests: the natural solution to climate crisis,”](#) Commonwealth Beacon, Oct 27, 2022 (op-ed on New England’s Climate Imperative: Our Forests as a Natural Climate Solution, Highstead report).
- Phys.org, [“How the Earth is changing across different ecosystems,”](#) Aug 2022 (LTER climate-change special issue of BioScience, incl. Campbell et al. 2022).
- Northern Woodlands (T. McLeish), [“High Carbs in Trees Influence Response to Insect Outbreak,”](#) Spring 2022 (Barker Plotkin et al. 2021, Functional Ecology).
- Mongabay (L. Kimbrough), [“Trees and soil at the forest’s edge store more carbon than we thought, studies reveal,”](#) Apr 2022 (Morreale et al. 2021, Nature Communications).
- Phys.org, [“New study and interactive map point to environmental justice disparities \(and solutions\) in land conservation,”](#) Apr 2022 (Sims et al. 2022, Environmental Research Letters).
- Wildlands & Woodlands, [“Exploring Land Conservation’s Impact on Property Taxes in New England,”](#) Mar 24, 2022 (Kalinin et al. 2023, Journal of Environmental Economics and Management)
- Wildlands & Woodlands, [“Q&A with the Authors: Does Land Conservation Raise Property Taxes?,”](#) (Kalinin et al. 2023, Journal of Environmental Economics and Management).
- British Ecological Society, [“For trees, carbs are key to surviving insect defoliation,”](#) Aug 2021 (Barker Plotkin et al. 2021, Functional Ecology).
- ScienceDaily, [“For trees, carbs are key to surviving insect defoliation, study finds,”](#) Aug 13, 2021 (Barker Plotkin et al. 2021, Functional Ecology; also carried by Phys.org).

- ScienceDaily, “[Slow research to understand fast change](#),” May 17, 2021 (Bahlai et al. 2021).
- AmeriFlux, “[Carbon Budget of the Harvard Forest Long-Term Ecological Research Site: Pattern, Process, and Response to Global Change](#),” n.d. (community highlight; Finzi et al. 2020, Ecological Monographs).
- U.S. News & World Report, “[How New England Is Protecting Land to Promote Employment](#),” July 17, 2019 (Sims et al. 2019, Conservation Biology).
- Sims, K., J. R. Thompson, and S. Meyer, “[Can protecting land promote employment? In New England, the answer is yes](#),” The Conversation, 2019 (op-ed on Sims et al. 2019, Conservation Biology).
- National Science Foundation, “[Want to increase local employment? Conserve the land, scientists say](#),” n.d. (Sims et al. 2019, Conservation Biology).
- Boston University Earth & Environment, “[Christoph Nolte publishes on ties between conservation and economic growth](#),” Mar 29, 2019 (Sims et al. 2019, Conservation Biology).
- ScienceDaily, “[Land conservation helps local economies grow](#),” Mar 26, 2019 (Sims et al. 2019, Conservation Biology).
- Boston University Earth & Environment, “[Christoph Nolte publishes on land protection and forest development](#),” (Nolte et al. 2019, Conservation Letters).
- ScienceDaily, “[Salvage logging, planting not necessary to regenerate Douglas firs after Klamath fires](#),” Oct 31, 2018 (Lopez Ortiz et al. 2019, Forest Ecology and Management; also carried by Phys.org).
- Yale Environment Review (B. Rifkin), “[Finding the tipping point: Losing America’s Western conifer forests to climate change and wildfire](#),” May 17, 2018 (Tepley et al. 2017, Global Change Biology).
- EurekAlert! (Frontiers in Ecology and the Environment tip sheet), “[How carbon moves in fragmented forests](#),” May 2, 2018 (Smith et al. 2018, Frontiers in Ecology and the Environment).
- UPI, “[Climate change, wildfires transforming biodiversity hotspot in Northern California](#),” Apr 30, 2018 (Serra Diaz et al. 2018, Scientific Reports).
- Brattleboro Reformer (editorial), “[Our Opinion: The time to act is now](#),” Oct 3, 2017 (Wildlands and Woodlands, Farmlands and Communities report, 2017).
- WBUR, “[New England Is Losing 65 Acres Of Forestland Per Day, Report Finds](#),” Sept 19, 2017 (Wildlands and Woodlands, Farmlands and Communities report, 2017; also covered by Boston.com, Maine Public, New England Public Media, Earth.com, and Phys.org).
- CBS Boston (Associated Press), “[New England Is Losing 65 Acres Of Forest Per Day, Report Finds](#),” Sept 19, 2017 (Wildlands and Woodlands, Farmlands and Communities report, 2017; quoted).
- Mongabay (M. Gaworecki), “[The ‘interval squeeze’: Climate change makes it less likely conifer forests will regenerate after wildfires](#),” June 2017 (Tepley et al. 2017, Global Change Biology).
- Smithsonian’s National Zoo & Conservation Biology Institute, “[Smithsonian Scientists Examine Impact of High-Severity Fires on Conifer Forests](#),” n.d. (Tepley et al. 2017, Global Change Biology).
- ScienceDaily, “[Valuable Massachusetts ecosystems shrinking, doing more with less, study shows](#),” May 14, 2015 (Blumstein and Thompson 2015, Journal of Applied Ecology).
- Smithsonian Insider, “[400-year study finds Northeast forests resilient, changing](#),” Sept 5, 2013 (Thompson et al. 2013, PLoS ONE).
- ScienceDaily, “[Northeastern US forests transformed by human activity over 400 years](#),” Sept 4, 2013 (Thompson et al. 2013, PLoS ONE; also carried by Phys.org and EurekAlert).
- Smithsonian’s Conservation Biology Institute, “[Smithsonian Scientist Uses Innovative Method to Predict How Forests Will Change Over Time](#),” (Thompson et al. 2012, BioScience).

- New York Times, “[After a Major Wildfire, It Seems, Some Forests Are Better Left Alone](#),” June 12, 2007 (Thompson et al. 2007, Proceedings of the National Academy of Sciences).

Selected Invited Presentations:

Half-Earth Day, E.O. Wilson Biodiversity Foundation (Oct 2026)
North American Forest Ecology Workshop, Missoula MT (June 2026)
Woodwell Climate Center, Woods Hole, MA (Nov 2025)
Harvard Law School Emmett Environmental Law Clinic (Dec 2025)
Cornell University, Natural Resource Departmental Seminar (Sept 2025)
National Institute of Standards and Technology, Gaithersburg MD (Sept 2024)
University of Massachusetts, Dept. of Environmental Conservation Seminar, Amherst MA (Oct 2022)
Property and Environment Research Center, Bozeman MT (July 2022)
Clark University, Geography Graduate Program Seminar Series (Feb 2021)
Boston University Biogeosciences Seminar Series (2019)
New England Regional Conservation Partnership Annual Meeting (Keynote) (2019)
United Nations Association of Greater Boston (Feb 2018)
Klamath National Forest, Medford OR (Nov 2018)
University of Massachusetts, Applied Silviculture, Amherst MA (5/2017)
Clark University, Geography Department, Worcester MA (5/2017)
International LTER Meeting, Kruger National Park, South Africa (10/2016)
University of Massachusetts, Dept. of Environmental Conservation Seminar, Amherst MA (10/2016)
University of Connecticut, Department of Natural Resources Seminar, Storrs CT (9/2016)
Harvard University Herbaria Lecture Series, Cambridge, MA (10/2015)
Joint Sino-US Workshop on Landscape Modeling, Northeast University Chang Chun, China (6/2015)
Smithsonian Temperate Forest Symposium, Hirshhorn Museum, Washington D.C. (3/2015)
Clark University, Guest Lecture in GIS and Land Change Science, Worcester, MA (3/2015)
U. of Wisconsin, Dept. of Forestry and Wildlife Departmental Speaker, Madison, WI (11/2014)
U. of Missouri, Dept. of Forestry, Departmental Speaker, Columbia, MO (11/2014)
Highstead Conservation Foundation, Member Open House, Redding, CT (Keynote; 5/2014)
Westfield River National Wild and Scenic Symposium, Westfield, MA (Keynote; 4/2014)
New England Society for American Foresters, Nashua, NH (3/2014)
Harvard University, Harvard Forest Annual Ecology Symposium. Petersham, MA (3/2014)
Massachusetts Association of Conservation Commissions Annual Meeting (2/2014)
Massachusetts Forests Forum Annual Retreat, Boston MA (1/2014)
LANDIS-II Users Meeting, Madison WI (1/2014)
DynaFac, Ministry of Water and Forest, Libreville, Gabon (9/2013)
Springfield Science Museum, Springfield MA (12/2013)
Harvard Kennedy School of Government, Forest Scenario Press Conference, Cambridge MA (12/2013)
Global Earth Observatory, Washington D.C. (6/2013)
Harvard University, Harvard Forest Annual Ecology Symposium. Petersham, MA (4/2013)
University of Virginia, Guest Lecture. Charlottesville VA (4/2012)
Harvard University, Harvard Forest Annual Ecology Symposium. Petersham, MA (3/2012)
State Arboretum of Virginia, Summer Lecture Series. Boyce, VA (6/2011)
Shout Learning Project, Microsoft Corp. Online Event (5/2011)
Smithsonian Climate Change Research Symposium. Washington DC (5/2011)
University of Virginia, Guest Lecture. Charlottesville VA (4/2011)
Harvard University, Harvard Forest Annual Ecology Symposium. Petersham, MA (3/2011)

Smithsonian Tropical Research Institute. Panama City, Panama. (Plenary; “The Tupper Talk” 2/2011)
 Ministry of Water and Forests, Gabon, West Africa (2/2011)
 University of Maryland, Appalachian Lab, Departmental Seminar. Frostburg, MD (2/2011)
 Smithsonian Environmental Research Center. Edgewater, MD (2/2011)
 George Mason University. Front Royal, VA (1/2011)
 SCBI Public Lecture Series. Front Royal, VA (10/2010)
 University of Virginia, Environmental Science Departmental Seminar. Charlottesville VA (4/2010)
 LANDIS-II Forest landscape modeling conference. Madison, WI (3/2010)
 Harvard University, Harvard Forest Annual Ecology Symposium. Petersham, MA (3/2010)
 LTER All Scientists’ Meeting. Estes Park, CO (10/2009)
 Hubbard Brook Annual Ecology Symposium. North Woodstock, NH (7/2009)
 Westfield State College, Distinguished Lecturer Series. Westfield, MA (5/2009)
 Harvard University, Harvard Forest Annual Ecology Symposium. Petersham, MA (3/2009)
 Clark University Departmental Seminar. Worcester, MA (5/2009)
 Oregon Forestry Dept. - Science foundations of post-wildfire policy workshop. Corvallis, OR (3/2008)
 Oregon State University, Oregon Remote Sensing Workshop. Portland, OR (2/2007)
 Third International Fire Ecology and Management Congress. San Diego, CA (11/2006)
 PNW Research Station, Future Range of Variability Symposium. Corvallis, OR (6/2006)
 International Ecological Society Meeting. Merida, Mexico (1/2006)
 National Commission on Science for Sustainable Forestry. Denver, CO (5/2006)
 Southwestern Oregon Wildfire Research Symposium. Gold Beach, OR (2/2006)
 US Forest Service, Using Past Ecological Conditions in Resource Planning. Corvallis, OR (7/2004)

Contributed Abstracts & Presentations:

Ecological Society of America Annual Meeting	2024-22, 2019-09, 2006, 2004
International Congress for Conservation Biology	2019, 2017, 2013
International Association of Landscape Ecologists	2016, 2015, 2012, 2011, 2009
LTER All Scientist and Science Council Meetings	2008-2022
Environment History Society Annual Meeting	2012
American Geophysical Union	2018-2015, 2011
North American Forest Ecology Workshop	2011, 2009, 2007
Northwest Scientific Association Annual Meeting	2007, 2005

Teaching & Mentoring:

2026-Present	OEB 110 <i>Forests, Carbon, and Climate: From Ecosystems to Policy</i> , Instructor, Harvard University. A field-intensive upper-level undergraduate/graduate course taught at Harvard Forest.
2013-2024	CO-I and Mentor/Instructor for the Harvard Forest Summer Research Program in Ecology. An 11-week immersive experience for 20-30 undergraduates from throughout the U.S. (>60% from groups traditionally underrepresented in science)
2019-2023	Winter Session Internships in Ecology for Harvard Undergraduates
2010-2013	Smithsonian-Mason School of Conservation. Taught multiple three-week ‘Short Courses’ including: “Managing Ecological Data in R”, “GIS in R, Applications for Ecologists”, and “Spatial Statistics in R”
2007 & 2008	FS 442/542 “Remote Sensing and Digital Image Processing”, Lead Instructor, Forest Science Dept. Oregon State University
2002-2008	FOR 561 “Forest Policy Analysis” Teaching Assistant for K. Norm Johnson

Advisees:

Nikolus Bate Haus, PhD Student, Co-Advisor with Lucy Hutyra Boston University
 Xiaojie Gao, Post-Doctoral Fellow, Harvard University (Aug 2023 – Present)
 Shersing Joeseeph Tumber-Dávila, Post-Doctoral Fellow, Harvard University (Aug 2022 – Present)
 Alexey Kalinin, Post-Doctoral Fellow, Harvard University, (Jan 2019 – May 2023)
 Luca Morreale, PhD Student (Co-Advised w L. Hutyra), Boston University, (Sept 2017 – June 2023)
 Meghan Graham MacLean, Post-Doctoral Fellow, Harvard University, (Sept 2017 – Aug 2019)
 Jennifer Smetzer, Post-Doctoral Fellow, Harvard University, (Oct 2018 – May 2019)
 Marissa McBride, Post-Doctoral Fellow, Harvard University, (Sept 2015 – Sept 2017)
 Jose Serra ‘Pep’ Diaz, Post-Doctoral Fellow, Harvard University, (June 2015 – July 2017)
 Alexandra Thorn, Post-Doctoral Fellow, Harvard University, (Sept 2014 – June 2015)
 Matthew Duveneck, Post-Doctoral Fellow, Harvard University, (Dec 2013 - Sept 2017)
 Iara Lacher, Post-Doctoral Fellow, Smithsonian Institution, (Sept 2015 - Sept 2017)
 Eben Broadbent, Post-Doctoral Fellow, Smithsonian Institution (Oct 2012 – Oct 2013)
 Angélica M. Almeyda Zambrano, Post-Doctoral Fellow, Smithsonian Institution (Oct 2012 – Oct 2013)
 Jennifer Holm, Post-Doctoral Fellow, Smithsonian Institution (March 2012 – August 2012)
 Jennifer McGarvey, M.S. Student, Dept. of Environmental Science, U. of Virginia

Grant-funded Full-time Research Assistants at Harvard Forest:

Lucy Lee (9/2018 – Present)
 Danelle Laflower (1/2017 – Present)
 Josh Plisinski (2016 – Present)
 Luca Morreale (2015 – 2017),
 Meghan Blumstein (2013 – 2015)

Selected Service Activities:

2025	US Climate Assessment, Science Board
2025	Forests as a Climate Solution Working Group (Governor Healey’s policy advisory team)
2018– 2026	Member of Executive Board for the NSF’s Long Term Ecological Research (LTER) Network; Chair of the LTER Future Scenarios Working Group; Member of the LTER Diversity Equity and Inclusion Standing Committee
2022-Present	Board Member, Massachusetts Audubon,
2014-2023	Editorial Board <i>Landscape Ecology</i>
2010-2015	Editorial Board <i>ESA Ecosphere</i>
2013-Present	CO-PI and Science Coordinator for the <i>Scenarios, Services, and Society</i> (s3) Research Coordination Network (NSF RCN)
2011-2023	Board member and secretary for the LANDIS-II Foundation (501c3), which supports training, use, and maintenance of the LANDIS-II open-source forest landscape simulation platform.