**JONATHAN R. THOMPSON**

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**Biography:**

Dr. Jonathan Thompson is the Research Director and Senior Ecologist at the Harvard Forest, a department of Harvard University. His research is highly interdisciplinary and focuses on long-term and broad-scale changes in forest landscapes, with an emphasis on quantifying how land use affects forest ecosystem processes and services. He is the lead Principal Investigator for the Harvard Forest Long Term Ecological Research (LTER) program, sponsored by the National Science Foundation and involving more than 100 scientists and students investigating the dynamics of the New England landscape. He also leads the New England Landscape Futures project, which collaborates with diverse stakeholders from throughout the region to build and evaluate scenarios that show how land-use choices and climate change could shape the landscape over the next 100 years. He is the lead author of *Changes to the Land: Four Scenarios for the Future of the Massachusetts Landscape* and is the Land Sector Lead for the Commonwealth of Massachusetts’ *Decarbonization Roadmap*.

**Appointments:**

2022-Present Research Director, Harvard Forest, Harvard University

2022 Lone Mountain Fellow; Property and Environment Research Center, Bozeman, MT

2019-Present Lead Principal Investigator, Harvard Forest Long Term Ecological Research Program

2013-Present 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

**Selected Service Activities:**

2018– Present 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

2023-Present Braiding Indigenous Knowledge and Western Science for Forest Landscape Adaptation to Climate Change – Core Writing Team, Commissioned by President Biden Executive Order 14072 *Strengthening the Nation's Forests, Communities, and Local Economies* “

2022-Present Board Member, Massachusetts Audubon, Resilient Landscapes Board

2019-Present Expert Consultant, Massachusetts Executive Office of Energy and Environmental Affairs for development of 2050 Clean Energy and Climate Plan

2021-Present Massachusetts’ Forest as a Climate Solution, Expert Assessment Team

2014-2023 Editorial Board *Landscape Ecology*

2010-2015 Editorial Board *ESA Ecosphere*

2013-Present CO-PI and Science Coordinator for the *Scenarios, Services, and Society* (*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.

**Research Grants:**

**2025-2031 NSF: LTER: “**HFR VII:Putting long-term data to work: Trajectories, responsiveness, and spatial scaling” Status: Pending (Lead PI: Thompson) $7,650,000

**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

**2024-2025 Highstead Foundation:** “Conservation effectiveness in New England”(PI: Thompson) $90K

**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: Hutyra 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

**Significant Reports:**

12. “The Role for Terrestrial Carbon for Achieving Net Zero Emissions” Thompson, J. R., Laflower, D., Plisinski, J., Graham MacLean, M. 2024. Massachusetts Executive Office of Energy and Environmental Affairs. 146p.

11. “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, et al. 2023. Harvard Forest, Harvard University.

10. “Report of the Climate Forestry Committee:  Recommendations for Climate-Oriented Forest Management Guidelines” Climate Forestry Committee. 2023.

9. "Braiding Indigenous Knowledge and Western Science for Forest Landscape Adaptation to Climate Change: An Ecocultural State of Science Report" Eisenberg, C., S. Prichard, Michael Paul Nelson, Paul Hessburg, J. R. Thompson, and 35 co-authors. 2023. U. S. Department of Interior.

8. “Growing Solar, Protecting Nature” Thompson, J. R., M. Manion, K. Pickrell, L. Lee, H. Ricci, J. Collins, J. Plisinski, et al. 2023. Mass Audubon and Harvard Forest.

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, et al. 2022. “New England’s Climate Imperative: Our Forests as a Natural Climate Solution.” Highstead Foundation.

6. “The Role of Terrestrial Carbon in Achieving Net Zero Emissions: Market Approaches and Authority” Joroff A., L. Cohen, J. R. Thompson. 2021. Harvard Environmental Law and Policy Clinic and the Harvard Forest. Report to the Commonwealth of Massachusetts.

5. “Land Sector Report:  A Technical Report of the Massachusetts 2050 Decarbonization Roadmap Study” Thompson, Jonathan R., Danelle Laflower, Joshua Plisinski, and Meghan Graham MacLean. 2020. Massachusetts 2050 Decarbonization Roadmap. 62 pp.

4. “Voices from the Land: Listening to New Englanders’ Views of the Future” Fallon Lambert, Kathy., Jonathan R. Thompson, Sherburne Abbott, Mark Borsuk, Mindy Crandall, Charles Driscoll, David Foster, Spencer Meyer, Taylor Ricketts, and Aaron Weisskettal. 2018. Harvard Forest, Harvard University and the Science Policy Exchange. ISBN: 978-962-14667-5

3. “Wildlands and Woodlands Farmlands and Communities” Foster, D. R., K. Fallon Lambert, D. B. Kitt, B. Donahue, C. M. Hart, W. Labich, S. R. Meyer, et al. 2017. Harvard Forest, Harvard University.

2. “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.

1. “Wildlands and Woodlands: A Forest Vision for New England” Foster, D. R., B. Donahue, D. Kittredge, K. Fallon-Lambert, M. Hunter, B. Hall, L. Irland, et al. 2010. Harvard University Press.

**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.  PDFs of all papers are freely available on my website.

*In Review & Revision:*

91. Barker Plotkin, A. B. Keevan, M. Graham MacLean, G. Shiffrin, J. R. Thompson. “Defoliation and demography interact to affect oak survival in southern New England.” In Review: Forest Ecology and the Environment.

90. Song, Y., J. E. Aldy, N. Michele Holbrook, X. Gao, J. Thompson. “Entry choices and performance of forest-based carbon offset projects in regulated and voluntary carbon markets.

89. Hundertmark W., L. Morreale, A. Reinmann, J. R. Thompson, P. Templer, L. Hutyra. “Canopy structure, foliar chemistry, and spatial characteristics of temperate forest edges” In Revision: Ecosystems.

88. Pasquarella, V. L. Lee, B. Glass, L. Morreale, N. Chung, J.R. Thompson. “A comparison shopper’s guide to forest datasets” In Review: Bioscience.

87. Morreale L.L., J. R. Thompson, V. Pasquarella, Hutyra L. “Edge cases: Fragmentation and ecosystem processes in temperate forest landscapes” In Press: Frontiers in Ecology and the Environment.

*In Press & Published:*

86. Tumber‐Dávila, Shersingh Joseph, Taylor Lucey, Emery R. Boose, Danelle Laflower, Agustín León‐Sáenz, Barry T. Wilson, Meghan Graham MacLean, and Jonathan R. Thompson. 2024. “Hurricanes Pose a Substantial Risk to New England Forest Carbon Stocks.” Global Change Biology 30 (4): e17259. https://doi.org/10.1111/gcb.17259.

85. Thompson, Jonathan R, Alexey Kalinin, Lucy G Lee, Valerie J Pasquarella, Joshua Plisinski, and Katharine R E Sims. 2024. “Do Working Forest Easements Work for Conservation?” Environmental Research Letters 19 (11): 114033. https://doi.org/10.1088/1748-9326/ad7ed9.

84. Pasquarella, Valerie J., Luca L. Morreale, Christopher F. Brown, John B. Kilbride, and Jonathan R. Thompson. 2023. “Not-so-Random Forests: Comparing Voting and Decision Tree Ensembles for Characterizing Partial Harvest Events.” International Journal of Applied Earth Observation and Geoinformation 125:103561. https://doi.org/10.1016/j.jag.2023.103561.

83. Markowski Lindsay, Marla, Paul Catanzaro, Amanda Robillard, Brett J Butler, David A Orwig, Anthony W D’Amato, Jonathan R Thompson, Danelle M Laflower, Meghan Graham MacLean, and Malcolm Itter. 2023. “Forester and Logger Response to Emerald Ash Borer in Massachusetts and Vermont: A Secondary Disturbance.” Journal of Forestry 121 (4): 319–32. https://doi.org/10.1093/jofore/fvad019.

82. Liang, Yu, Eric J. Gustafson, Hong S. He, Josep M. Serra‐Diaz, Matthew J. Duveneck, and Jonathan 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 29 (4): 1160–77. https://doi.org/10.1111/gcb.16517.

81. Kalinin, Alexey V., Katharine R.E. Sims, Spencer R. Meyer, and Jonathan R. Thompson. 2023. “Does Land Conservation Raise Property Taxes? Evidence from New England Cities and Towns.” Journal of Environmental Economics and Management 119:102782. https://doi.org/10.1016/j.jeem.2022.102782.

80. Faison, Edward K., Danelle Laflower, Luca L. Morreale, David R. Foster, Brian Hall, Emily Johnson, and Jonathan R. Thompson. 2023. “Adaptation and Mitigation Capacity of Wildland Forests in the Northeastern United States.” Forest Ecology and Management 544 :121145. https://doi.org/10.1016/j.foreco.2023.121145.

79. Sims, Katharine R E, Lucy G Lee, Neenah Estrella-Luna, Margot R Lurie, and Jonathan 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 (6): 064014. https://doi.org/10.1088/1748-9326/ac6313.

78. Rastetter, Edward B., Bonnie L. Kwiatkowski, David W. Kicklighter, Audrey Barker Plotkin, Helene Genet, Jesse B. Nippert, Kimberly O’Keefe, et al. 2022. “N and P Constrain C in Ecosystems under Climate Change: Role of Nutrient Redistribution, Accumulation, and Stoichiometry.” Ecological Applications 32 (8): e2684. https://doi.org/10.1002/eap.2684.

77. Holt, Jonathan R., Jennifer R. Smetzer, Mark E. Borsuk, Danelle Laflower, David A. Orwig, and Jonathan R. Thompson. 2022. “Emerald Ash Borer Intensifies Harvest Regimes on Private Land.” Ecological Applications 32 (2): e2508. https://doi.org/10.1002/eap.2508.

76. Hall, Jefferson S., Joshua S. Plisinski, Stephanie K. Mladinich, Michiel Van Breugel, Hao Ran Lai, Gregory P. Asner, Kendra Walker, and Jonathan R. Thompson. 2022. “Deforestation Scenarios Show the Importance of Secondary Forest for Meeting Panama’s Carbon Goals.” Landscape Ecology 37 (3): 673–94. https://doi.org/10.1007/s10980-021-01379-4.

75. Campbell, John L, Charles T. Driscoll, Julia A. Jones, Emery R. Boose, Hilary A. Dugan, Peter M. Groffman, C. Rhett Jackson, et al. 2022. “Forest and Freshwater Ecosystem Responses to Climate Change and Variability at US LTER Sites.” BioScience 72 (9): 851–70. https://doi.org/10.1093/biosci/biab124.

74. Swanson, Frederick J., David R. Foster, Charles T. Driscoll, Jonathan R. Thompson, and Lindsey E. Rustad. 2021. “How LTER Site Communities Can Address Major Environmental Challenges.” In The Challenges of Long Term Ecological Research: A Historical Analysis, edited by Robert B. Waide and Sharon E. Kingsland, 59:223–41. Archimedes. Cham: Springer International Publishing. https://doi.org/10.1007/978-3-030-66933-1\_8.

73. Morreale, Luca L., Jonathan R. Thompson, Xiaojing Tang, Andrew B. Reinmann, and Lucy R. Hutyra. 2021. “Elevated Growth and Biomass along Temperate Forest Edges.” Nature Communications 12 (1): 7181. https://doi.org/10.1038/s41467-021-27373-7.

72. Holt, Jonathan R., Brett J. Butler, Mark E. Borsuk, Marla Markowski-Lindsay, Meghan Graham MacLean, and Jonathan R. Thompson. 2021. “Using the Theory of Planned Behavior to Understand Family Forest Owners’ Intended Responses to Invasive Forest Insects.” Society & Natural Resources 34 (8): 1001–18. https://doi.org/10.1080/08941920.2021.1924330.

71. Graham MacLean, Meghan, Matthew J. Duveneck, Joshua Plisinski, Luca L. Morreale, Danelle Laflower, and Jonathan R. Thompson. 2021. “Forest Carbon Trajectories: Consequences of Alternative Land-Use Scenarios in New England.” Global Environmental Change 69 :102310. https://doi.org/10.1016/j.gloenvcha.2021.102310.

70. Cinoğlu, Damla, Howard E. Epstein, Alan J. Tepley, Kristina J. Anderson-Teixeira, Jonathan R. Thompson, and Steven S. Perakis. 2021. “Climatic Aridity Shapes Post-Fire Interactions between Ceanothus Spp. and Douglas-Fir (Pseudotsuga Menziesii) across the Klamath Mountains.” Forests 12 (11): 1567. https://doi.org/10.3390/f12111567.

69. Barker Plotkin, Audrey, Meghan Blumstein, Danelle Laflower, Valerie J. Pasquarella, Jennifer L. Chandler, Joseph S. Elkinton, and Jonathan R. Thompson. 2021. “Defoliated Trees Die below a Critical Threshold of Stored Carbon.” Functional Ecology 35 (10): 2156–67. https://doi.org/10.1111/1365-2435.13891.

68. Bahlai, Christie A., Clarisse Hart, Maria T. Kavanaugh, Jeffrey D. White, Roger W. Ruess, Todd J. Brinkman, Hugh W. Ducklow, et al. 2021. “Cascading Effects: Insights from the U.S. Long Term Ecological Research Network.” Ecosphere 12 (5): e03430. https://doi.org/10.1002/ecs2.3430.

67. Vellend, Mark, Jonathan R. Thompson, Victor Danneyrolles, and François Rousseu. 2021. “Changes in Landscape‐scale Tree Biodiversity in the North‐eastern USA since European Settlement.” Global Ecology and Biogeography 30 (3): 666–73. https://doi.org/10.1111/geb.13248.

66. Thompson, Jonathan R., Joshua S. Plisinski, Kathy Fallon Lambert, Matthew J. Duveneck, Luca Morreale, Marissa McBride, Meghan Graham MacLean, Marissa Weiss, and Lucy Lee. 2020. “Spatial Simulation of Codesigned Land Cover Change Scenarios in New England: Alternative Futures and Their Consequences for Conservation Priorities.” Earth’s Future 8 (7): e2019EF001348. https://doi.org/10.1029/2019EF001348.

65. Reinmann, Andrew B, Ian A Smith, Jonathan R Thompson, and Lucy R Hutyra. 2020. “Urbanization and Fragmentation Mediate Temperate Forest Carbon Cycle Response to Climate.” Environmental Research Letters 15 (11): 114036. https://doi.org/10.1088/1748-9326/abbf16.

64. Maxwell, Charles J., Josep M. Serra‐Diaz, Robert M. Scheller, and Jonathan 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): 1328–40. https://doi.org/10.1111/1365-2664.13630.

63. Markowski Lindsay, Marla, Mark E. Borsuk, Brett J. Butler, Matthew J. Duveneck, Jonathan Holt, David B. Kittredge, Danelle Laflower, Meghan Graham MacLean, David Orwig, and Jonathan R. Thompson. 2020. “Compounding the Disturbance: Family Forest Owner Reactions to Invasive Forest Insects.” Ecological Economics 167:106461. https://doi.org/10.1016/j.ecolecon.2019.106461.

62. MacLean, Meghan Graham, Jonathan Holt, Mark Borsuk, Marla Markowski-Lindsay, Brett J. Butler, David B. Kittredge, Matthew J. Duveneck, et al. 2020. “Potential Impacts of Insect-Induced Harvests in the Mixed Forests of New England.” Forests 11 (5): 498. https://doi.org/10.3390/f11050498.

61. Holt, Jonathan R., Mark E. Borsuk, Brett J. Butler, David B. Kittredge, Danelle Laflower, Meghan G. MacLean, Marla Markowski‐Lindsay, David Orwig, and Jonathan R. Thompson. 2020. “Landowner Functional Types to Characterize Response to Invasive Forest Insects.” People and Nature 2 (1): 204–16. https://doi.org/10.1002/pan3.10065.

60. Guswa, Andrew J., Brian Hall, Chingwen Cheng, and Jonathan R. Thompson. 2020. “Co-Designed Land-Use Scenarios and Their Implications for Storm Runoff and Streamflow in New England.” Environmental Management 66 (5): 785–800. https://doi.org/10.1007/s00267-020-01342-0.

59. Finzi, Adrien C., Marc‐André Giasson, Audrey A. Barker Plotkin, John D. Aber, Emery R. Boose, Eric A. Davidson, Michael C. Dietze, et al. 2020. “Carbon Budget of the Harvard Forest Long‐Term Ecological Research Site: Pattern, Process, and Response to Global Change.” Ecological Monographs 90 (4): e01423. https://doi.org/10.1002/ecm.1423.

58. Smith, Ian A., Lucy R. Hutyra, Andrew B. Reinmann, Jonathan R. Thompson, and David W. Allen. 2019. “Evidence for Edge Enhancements of Soil Respiration in Temperate Forests.” Geophysical Research Letters 46 (8): 4278–87. https://doi.org/10.1029/2019GL082459.

57. Sims, Katharine R. E., Jonathan R. Thompson, Spencer R. Meyer, Christoph Nolte, and Joshua S. Plisinski. 2019. “Assessing the Local Economic Impacts of Land Protection.” Conservation Biology 33 (5): 1035–44. https://doi.org/10.1111/cobi.13318.

56. Simoes, Jody, Marla Lindsay, Brett Butler, David Kittredge, Jonathan Thompson, and David Orwig. 2019. “Assessing New England Family Forest Owners’ Invasive Insect Awareness.” Journal of Extension 57 (3). https://doi.org/10.34068/joe.57.03.16.

55. Nolte, Christoph, Spencer R. Meyer, Katharine R. E. Sims, and Jonathan R. Thompson. 2019. “Voluntary, Permanent Land Protection Reduces Forest Loss and Development in a Rural‐urban Landscape.” Conservation Letters 12 (6): e12649. https://doi.org/10.1111/conl.12649.

54. Miller, Adam D., Jonathan R. Thompson, Alan J. Tepley, and Kristina J. Anderson‐Teixeira. 2019. “Alternative Stable Equilibria and Critical Thresholds Created by Fire Regimes and Plant Responses in a Fire‐prone Community.” Ecography 42 (1): 55–66. https://doi.org/10.1111/ecog.03491.

53. McKenzie, Patrick F., Matthew J. Duveneck, Luca L. Morreale, and Jonathan R. Thompson. 2019. “Local and Global Parameter Sensitivity within an Ecophysiologically Based Forest Landscape Model.” Environmental Modelling & Software 117 (July):1–13. https://doi.org/10.1016/j.envsoft.2019.03.002.

52. McBride, Marissa F., Matthew J. Duveneck, Kathleen F. Lambert, Kathleen A. Theoharides, and Jonathan 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 (August):30–42. https://doi.org/10.1016/j.landurbplan.2018.10.019.

51. Lopez Ortiz, Maria J., Terry Marcey, Melissa S. Lucash, David Hibbs, Jeffrey P.A. Shatford, and Jonathan R. Thompson. 2019. “Post-Fire Management Affects Species Composition but Not Douglas-Fir Regeneration in the Klamath Mountains.” Forest Ecology and Management 432:1030–40. https://doi.org/10.1016/j.foreco.2018.10.030.

50. Lacher, Iara, Thomas Akre, William J. McShea, Marissa McBride, Jonathan R. Thompson, and Craig Fergus. 2019. “Engaging Regional Stakeholders in Scenario Planning for the Long-Term Preservation of Ecosystem Services in Northwestern Virginia.” Case Studies in the Environment 3 (1): 1–13. https://doi.org/10.1525/cse.2018.001180.

49. Helcoski, Ryan, Alan J. Tepley, Neil Pederson, Jennifer C. McGarvey, Victoria Meakem, Valentine Herrmann, Jonathan R. Thompson, and Kristina J. Anderson‐Teixeira. 2019. “Growing Season Moisture Drives Interannual Variation in Woody Productivity of a Temperate Deciduous Forest.” New Phytologist 223 (3): 1204–16. https://doi.org/10.1111/nph.15906.

48. Helcoski, Ryan, Alan J. Tepley, Jennifer C. Mcgarvey, Erika Gonzalez-Akre, Victoria Meakem, Jonathan R. Thompson, and Kristina J. Anderson-Teixeira. 2019. “No significant increase in tree mortality following coring in a temperate hardwood forest.” Tree-Ring Research 75 (1): 67. https://doi.org/10.3959/1536-1098-75.1.67.

47. Hastings, Sarah, Danelle Laflower, and Jonathan R Thompson. 2019. “Forest Carbon Offsets Include Co‐benefits and Co‐detriments.” Frontiers in Ecology and the Environment 17 (3): 143–44. https://doi.org/10.1002/fee.2018.

46. Duveneck, Matthew J. and Jonathan R. Thompson. 2019. “Social and Biophysical Determinants of Future Forest Conditions in New England: Effects of a Modern Land-Use Regime.” Global Environmental Change 55 (March):115–29. https://doi.org/10.1016/j.gloenvcha.2019.01.009.

45. Smith, Ian A, Lucy R Hutyra, Andrew B Reinmann, Julia K Marrs, and Jonathan R Thompson. 2018. “Piecing Together the Fragments: Elucidating Edge Effects on Forest Carbon Dynamics.” Frontiers in Ecology and the Environment 16 (4): 213–21. https://doi.org/10.1002/fee.1793.

44. Serra Diaz, Josep M., Charles Maxwell, Melissa S. Lucash, Robert M. Scheller, Danelle M. Laflower, Adam D. Miller, Alan J. Tepley, Howard E. Epstein, Kristina J. Anderson-Teixeira, and Jonathan 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 (1): 6749. https://doi.org/10.1038/s41598-018-24642-2.

43. Liang, Yu, Matthew J. Duveneck, Eric J. Gustafson, Josep M. Serra‐Diaz, and Jonathan R. Thompson. 2018. “How Disturbance, Competition, and Dispersal Interact to Prevent Tree Range Boundaries from Keeping Pace with Climate Change.” Global Change Biology 24 (1). https://doi.org/10.1111/gcb.13847.

42. Xiao, Jiangtao, Yu Liang, Hong S. He, Jonathan R. Thompson, Wen J. Wang, Jacob S. Fraser, and Zhiwei Wu. 2017. “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): 1347–63. https://doi.org/10.1007/s10980-016-0442-2.

41. Thompson, Jonathan R., Joshua S. Plisinski, Pontus Olofsson, Christopher E. Holden, and Matthew J. Duveneck. 2017. “Forest Loss in New England: A Projection of Recent Trends.” Edited by Robert F. Baldwin. PLOS ONE 12 (12): e0189636. https://doi.org/10.1371/journal.pone.0189636.

40. Thompson, Jonathan R., Charles D. Canham, Luca Morreale, David B. Kittredge, and Brett Butler. 2017. “Social and Biophysical Variation in Regional Timber Harvest Regimes.” Ecological Applications 27 (3): 942–55. https://doi.org/10.1002/eap.1497.

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**Teaching & Mentoring:**

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:**

Xiaojie Gao, Post-Doctoral Fellow, Harvard University (Aug 2023 – Present)

Shersing Joeseph Tumber-Dávila, Post-Doctoral Fellow, Harvard University (Aug 2022 – Present)

Alexey Kalinin, Post-Doctoral Fellow, Harvard University, (Jan 2019 – May 2023)

Luca Morealle, PhD Student (Co-Advised w L. Hutyra), Boston University, (Sept 2017 – June 2023)

Meghan MacClean 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

Aticus Stonewall, 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 Plinsinski (2016 – Present)

Luca Morealle (2015 – 2017),

Meghan Blumstein (2013 – 2015)

**Selected Invited Presentations**

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, Stores CT (9/2016)

Harvard University Herbaria Lecture Series, Cambridge, MA (10/2015)

Join Sino-US Workshop on Landscape Modeling, Northeast University Chang Chun, China (6/2015)

Smithsonian Temperate Forest Symposium, Hirsshorn 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, Liberville, 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. Worchester, 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