

ALEXANDRA M. KOSIBA Ph.D.

Alexandra.Kosiba@uvm.edu

EDUCATION

Ph.D. in Natural Resources | University of Vermont, Burlington, VT | 2017

M.Sc. in Forest Science | University of Vermont, Burlington, VT | 2011

B.Sc. in Biology & Environmental Science | Tufts University, Medford, MA | 2004

PROFESSIONAL EXPERIENCE

Extension Assistant Professor of Forestry

College of Agriculture and Life Sciences, University of Vermont, S. Burlington, VT | 2022-present

Vermont Climate Forester

Vermont Department of Forests, Parks and Recreation, Montpelier, VT | 2020-2022

Project Coordinator & Research Scientist

Forest Ecosystem Monitoring Cooperative & University of Vermont, S. Burlington, VT | 2017-2020

Forestry Lecturer

University of Vermont, Burlington, VT | Fall 2017

Forest Ecologist and Researcher

Forest Ecosystem Monitoring Cooperative & University of Vermont, S. Burlington, VT | Summer 2017

Part-time Forestry Lecturer

University of Vermont, Burlington, VT | Spring 2016

Ph.D. Graduate Research Assistant

University of Vermont, Burlington, VT | 2012-2016

Ecosystem Services Consultant

Winooski Natural Resources Conservation District, Winooski, VT | Winter 2014-2015

Forest Ecology Research Technician

University of Vermont, Burlington, VT | 2012

M.Sc. Graduate Research Assistant

University of Vermont, Burlington, VT | 2009-2011

PEER-REVIEWED PUBLICATIONS

- Juice SM, Schaberg PG, **Kosiba AM**, Waite CE, Hawley GJ, Wang D, Perdrial JN and Adair EC. 2022. *Soil type modifies the impacts of warming and snow exclusion on leachate carbon and nutrient losses*. Biogeochemistry: 160, 199–217 [<https://doi.org/10.1007/s10533-022-00949-1>]
- Rayback SA, Duncan JA, Schaberg PG, **Kosiba AM**, Hansen CF, and Murakami P. 2020. *The DendroEcological Network: a cyberinfrastructure for the storage, discovery and sharing of tree-ring and associated ecological data*. Dendrochronologia [<https://doi.org/10.1016/j.dendro.2020.125678>]
- Kosiba AM**, Schaberg PG, Rayback SA, and Hawley GJ. 2019. *The surprising recovery of red spruce growth shows links to decreased acid deposition and elevated temperature*. Science of the Total Environment. 637: 1480-1491. [<https://www.doi.org/10.1016/j.scitotenv.2018.05.010>]
- Kosiba AM**, Meigs G, Duncan J, Pontius J, Keeton W, Tait E. 2018. *Spatiotemporal patterns of forest damage and disturbance in the Northeastern United States: 2000 - 2016*. Forest Ecology and Management. 430: 94-104. [<https://www.doi.org/10.1016/j.foreco.2018.07.047>]

4. **Kosiba AM**, Schaberg PG, Rayback SA, and Hawley GJ. 2017. *Comparative growth trends of five northern hardwood and montane tree species reveal divergent trajectories and response to climate*. Canadian Journal of Forest Research. 47 (6): 743-754. [https://www.doi.org/10.1139/cjfr-2016-0308] (selected as CJFR Editor's Choice Manuscript, September 2018)
3. Engle BJ, Schaberg PG, Hawley GJ, Rayback SA, Pontius J, **Kosiba AM**, and Miller EK. 2016. *Assessing relationships between red spruce radial growth and pollution critical load exceedence values*. Forest Ecology and Management 359:83-91. [https://www.doi.org/10.1016/j.foreco.2015.09.029]
2. Schaberg PG, Hawley GJ, Rayback SA, Halman JM, and **Kosiba AM**. 2014. *Inconclusive evidence of Juniperus virginiana recovery following sulfur pollution reductions*. Proceedings of the National Academy of Science, 111 (1): 1-2. [https://www.doi.org/10.1073/pnas.1321243111]
1. **Kosiba AM**, Schaberg PG, Hawley GJ, and Hansen CF. 2013. *Quantifying the legacy of foliar winter injury on wood aboveground carbon sequestration of red spruce trees*. Forest Ecology and Management, 302: 363-371. [https://www.doi.org/10.1016/j.foreco.2013.03.006]

OUTREACH MATERIALS

6. **Kosiba AM**. 2022. *12 Steps to Climate Resilience: Managing Your Forest with Climate Change in Mind*. Vermont Woodlands Association, Vermont Department of Forests, Parks and Recreation, and UVM Extension.
5. D'Amato A, Mahaffey A, **Kosiba AM**, Patch N, Thompson L, Sausville L, van Loon P, Wanner K. 2020. *Ten Recommendations to Help You Manage Ash in Your Woods in the Face of Emerald Ash Borer and Climate Change*. Forest Stewards Guild, Vermont Department of Forests Parks and Recreation, University of Vermont, Vermont Land Trust, and Vermont Coverts.
4. **Kosiba AM**. 2020. *Trees, Carbon, and Climate Change*. Vermont Department of Forests Parks and Recreation.
3. D'Amato A, Mahaffey A, Pepper L, **Kosiba AM**, Patch N, van Loon P. 2020. *Ten Recommendations for Managing Ash in the Face of Emerald Ash Borer and Climate Change for foresters*.
3. Janowiak M, **Kosiba AM**, Carlarton A. 2020. *Caring for your woods in the years ahead*. NIACS, Vermont Department of Forests Parks and Recreation, Vermont Coverts.
2. **Kosiba AM**. 2020. *Forest Carbon Markets for Vermont Landowners*. Vermont Department of Forests Parks and Recreation.
1. **Kosiba AM**. 2020. *What is Forest Carbon?* Vermont Department of Forests Parks and Recreation.

TECHNICAL REPORTS

17. Duncan J, Donisvitch S, **Kosiba AM**, Cooper C, and Nevins M. 2022. *Estimates of Storage, Sequestration, Harvest-Related Removals and Transport-Related Emissions of Carbon in the Pisgah State Park, 2008 to 2021*. [https://www.doi.org/10.18125/v311rj]
16. Galford G, Darby H, Hall F, and **Kosiba AM**. 2021. *A Carbon Budget for Vermont*.
15. Wikle J, Higgins H, Clark P, Cook D, Dutton D, Garton J, **Kosiba AM**, Schadler E, 2021. *Climate Change in Forests*. In Galford, G.L., Faulkner, J. et al. (Eds), *The Vermont Climate Assessment 2021*. Burlington, Vermont: Gund Institute for Environment at the University of Vermont. <https://vtclimate.org>
14. **Kosiba AM**. 2020. *Vermont Forest Carbon Inventory*. Vermont Department of Forests, Parks and Recreation.
13. **Kosiba AM** and Duncan JA. 2020. *Moderate and Intensive forest clearings detected in New Hampshire using remote sensing (2000-2018)*. Forest Ecosystem Monitoring Cooperative: South Burlington, VT.

12. **Kosiba AM**, Truong J, Duncan JA, Finnegan MO, and Pontius J. 2019. *Northeast Forest Fragmentation Information Network Version 1.0: Analysis of Resources and Gaps*. Forest Ecosystem Monitoring Cooperative: South Burlington, VT. [<https://doi.org/10.18125/d1y18y>].
11. **Kosiba AM**, Finnegan MO, Truong, J, Duncan JA, and Pontius J. 2019. *Climate Connection: Tools for understanding climate change and how it impacts forest ecosystems in the Northeast*. Forest Ecosystem Monitoring Cooperative: South Burlington, VT. [<https://www.doi.org/10.18125/d4x25z>]
10. Duncan JA, **Kosiba AM**, Rayback SA, Murakami PF, Hansen CF, and Schaberg PS. 2019. *The DendroEcological Network Version 1.0 – Technical Report*. Forest Ecosystem Monitoring Cooperative: South Burlington, VT. [<https://www.doi.org/10.18125/d3y16y>]
9. Edling L, Duncan J, **Kosiba AM** and Pontius JA. 2019. *Linking Forest Science to Policy: Improving a Forest Indicators Dashboard to inform policy and decision making across Vermont’s forested landscape*. Forest Ecosystem Monitoring Cooperative: South Burlington, VT. [<https://www.doi.org/10.18125/l165vd>]
8. Duncan JA, Tait ER, Meigs GW, **Kosiba AM**, Pontius JA, and Keeton W. 2018. *The Northeastern Forest Health Atlas – Technical Report*. Forest Ecosystem Monitoring Cooperative: South Burlington, VT. [<https://www.doi.org/10.18125/D2873C>.]
7. **Kosiba AM**, Duncan JA, and Brown-Lima C. 2018. *Hemlock woolly adelgid-induced losses in riparian corridors in New York State*. Forest Ecosystem Monitoring Cooperative: South Burlington, VT.
6. Nicholson C, **Kosiba AM**, Duncan JA, Truong J and Pontius JA (Eds.) 2018. *The Forest Ecosystem Monitoring Cooperative Regional Monitoring Update - 2017*. Forest Ecosystem Monitoring Cooperative: South Burlington, VT. [<https://www.doi: 10.18125/regional2017>]
5. Nicholson C, Duncan JA, **Kosiba AM**, Truong J and Pontius JA (Eds). 2018. *The Forest Ecosystem Monitoring Cooperative Long-Term Monitoring Update – 2017*. Forest Ecosystem Monitoring Cooperative: South Burlington, VT. [<https://www.doi: 10.18125/vermont2017>]
4. **Kosiba AM**, Duncan JA, Truong J, and Pontius JA (Eds). 2017. *The Forest Ecosystem Monitoring Cooperative Regional Monitoring Update - 2016*. Forest Ecosystem Monitoring Cooperative: South Burlington, VT. [<https://www.doi: 10.18125/D2WC74>. [10.18125/D2WC74](https://www.doi: 10.18125/D2WC74)]
3. Duncan JA, Truong J, Pendleton M, **Kosiba AM**, Katz J, and Pontius JA (Eds). 2017. *The Forest Ecosystem Monitoring Cooperative Long-Term Monitoring Update - 2016*. Forest Ecosystem Monitoring Cooperative: South Burlington, VT. [<https://www.doi: 10.18125/D2NH2F>]
2. **Kosiba AM**. *Key findings from i-Tree Eco report for the City of Winooski, Vermont*. 2015. Winooski Natural Resources Conservation District: Winooski, VT.
1. **Kosiba AM**, Schaberg PG, Hawley GJ, and Rayback SA. 2014. *Using dendroecological techniques to interpret the response of trees to environmental change at Vermont Monitoring Cooperative’s Mount Mansfield study site*. Vermont Monitoring Cooperative: S. Burlington, VT.

BOOKS & CHAPTERS

1. Schaberg P, **Kosiba AM**, Hawley G, Rayback SA, Pontius J, Engle BJ. 2020. *Assessing impacts of acid deposition on red spruce forests – do pollution legacies matter?* In: *Advances in Environmental Research*. Nova Science Publisher, NY.

PRESENTATIONS & WEBINARS

* invited

67. ***Kosiba AM**. *Managing Your Forest with Climate Change in Mind*. Webinar for Vermont Woodlands Association | 7 October 2022

66. ***Kosiba AM.** *Carbon and Forest Management 101.* Massachusetts Wildlife and Forestry Summit | 6 October 2022
65. ***Kosiba AM.** *Forests and Climate Change.* Guest lecture in Forest Ecosystem Health, UVM | 16 September 2022
64. ***Kosiba AM.** *Forest Management with Carbon in Mind.* VT Coverts Annual Meeting| 10 September 2022
63. ***Kosiba AM.** *Vermont's Forests in a Changing Climate.* VT Coverts Fall Cooperators Training| 10 September 2022
62. ***Kosiba AM.** *Forests Climate Change and Climate-Adaptative Management.* Northern Woodlands Field Day | 22 August 2022
61. ***Kosiba AM.** *Managing Forest Carbon: What You Need to Consider.* New England Society of American Foresters Annual Meeting, Portland, ME | 23 March 2022
60. ***Kosiba AM.** *Forest Carbon Dynamics: Causes and Impacts of Flux between Pools.* New England Society of American Foresters Annual Meeting, Portland, ME | 23 March 2022
59. ***Kosiba AM.** *Climate Change and the Importance of Forest Carbon.* New England Society of American Foresters Annual Meeting, Portland, ME | 23 March 2022
58. ***Kosiba AM.** *Forest Carbon for Vermont Landowners.* Webinar for Vermont Woodlands Association | 10 June 2022
57. ***Kosiba AM.** *Vermont's Forests and Climate Change.* Guest lecture in Forest Conservation, UVM | 28 February 2022
56. ***Kosiba AM.** *Forest Carbon Markets: Module 3 Carbon Training for Foresters.* Northeast Forest Carbon | 13 January 2022.
55. ***Kosiba AM.** *The Science of Forest Carbon Management: Module 2 Carbon Training for Foresters.* Northeast Forest Carbon | 13 January 2022.
54. ***Kosiba AM.** *The Science of Forest Carbon: Module 1 Carbon Training for Foresters.* Northeast Forest Carbon | 13 January 2022.
53. ***Kosiba AM.** *Vermont's Forests: Carbon and Climate Change.* Testimony to the Vermont House Agriculture and Forestry Committee | 13 January 2022.
52. ***Kosiba AM.** *Sugar Maple Health and Climate Change.* Vermont Maple Conference | 10 December 2021.
51. ***Kosiba AM.** *Climate Change & Forest Health: from planning to management.* New York and New England Forest Health Cooperators Meeting | 3 November 2021.
50. ***Kosiba AM.** *Forests and Climate Change.* Guest lecture in Forest Ecosystem Health, UVM| 29 September 2021.
49. ***Kosiba AM.** *Disentangling the relationship between red spruce growth and climate.* Red Spruce Restoration Workshop, University of Vermont, Burlington VT | 9 September 2021.
48. ***Kosiba AM.** *Impacts of Climate Change on Vermont Forest Health.* VT FPR Forest Health Webinar Series | 18 May 2021. Available at <https://www.youtube.com/watch?v=JtAgRrrd5jg>
47. ***Kosiba AM.** *The Science of Forest Carbon.* Presentation to Vermont Green Drinks. Sustainable Woodstock| 15 April 2021. Available at: https://www.youtube.com/watch?v=o_RsC_QRTYk
46. ***Kosiba AM.** *Vermont's Forests and Climate Change.* Guest Lecture in Environmental Sciences, UVM | 28 April 2021.
45. ***Kosiba AM.** *Forests, Carbon and Climate Change.* Guest lecture in Forest Conservation, UVM | 12 April 2021

44. ***Kosiba AM** and Patch R. *Vermont's Natural and Working Lands: Opportunities for Mitigation and Adaptation*. Presentation to the Global Warming Solutions Act's Climate Council. | 4 January 2021. Available at: <https://www.youtube.com/watch?v=mfyuE5OJZZU&list=PLb5jIRi04Vi81tTL1UxydBH-C0xmaN5MO&index=91>
43. ***Kosiba AM**. *Managing Vermont's Forests under a Changing Climate*. Guest lecture in Forest Ecosystem Health, UVM | 30 November 2020
42. ***Kosiba AM**. *Climate Change, Carbon and Forest Management at the Andrews Community Forest*. Vermont Woodlands Association | 20 October 2020. Available at: <https://www.youtube.com/watch?v=RxUDyueggdc&t=3849s>
41. ***Kosiba AM**. *Vermont's Forests and Climate Change*. Current Topics in Science seminar for Northern Vermont University | 2 November 2020. Available at: <https://www.youtube.com/watch?v=IYIRtFusztc>.
40. ***Kosiba AM**. *New tools for decision making and planning*. Vermont Urban and Community Forestry Council, Essex, VT | 11 December 2019.
39. ***Kosiba AM**. *Have red spruce trees 'recovered' from acid rain?* Marvin Seminar, University of Vermont | 21 November 2019.
38. ***Kosiba AM**, Pontius JA, Duncan JA, Finnegan MO, Truong J, Edling L. *Linking Forest Science to Policy: Enhancing quick and easy access to data required to inform decision making across Vermont's forested landscape*. Vermont Legislative Summit, Burlington, VT | 21 November 2019.
37. **Kosiba AM**. *Forest Ecosystem Monitoring Cooperative – sharing resources and data*. Forest Stewards Guild | 30 October 2019. Available at: <https://www.youtube.com/watch?v=9lgAK2yf9Gs&feature=youtu.be>
36. ***Kosiba AM** and Duncan JA. *Data-driven decision support tools for forest managers and researchers*. North American Invasive Species Management Association Conference, Saratoga Springs, NY | 1 October 2019.
35. Rayback S, Duncan JA, Schaberg PG, **Kosiba AM**, Murakami P, Hansen CF. *The DendroEcological Network: A cyberinfrastructure to facilitate the use of tree-ring and ecological data to answer ecological questions*. Ecological Society of America Annual Meeting, Louisville, KY | 13 August 2019.
34. Schaberg PS, **Kosiba AM**, Rayback SA, Duncan JA, Hansen CF, Murakami P. *The DEN tree-ring database is "live" and includes Hubbard Brook data*. Hubbard Brook Annual Cooperators Meeting, Thornton, NH | 11 July 2019.
33. **Kosiba AM** and Duncan JA. *Leveraging Hubbard Brook data for regional compilations and syntheses*. Hubbard Brook Annual Cooperators Meeting, Thornton, NH | 10 July 2019.
32. Foster J, D'Amato A, **Kosiba AM**, Schaberg PG. *Persistence of mixedwoods in montane and ecotone environments under a changing climate*. NA Forest Ecology Workshop, Flagstaff, AZ | 25 June 2019.
31. **Kosiba AM**, Duncan JA, Tait E. *New Hampshire forest clearing inventory*. New England Society of American Foresters Annual Meeting, Burlington, VT | 28 March 2019.
30. Duncan JA and **Kosiba AM**. *Mobilizing continuous forest inventory data for regional analyses of patterns and trends* | New England Society of American Foresters Annual Meeting, Burlington, VT | 18 March 2019.
29. *Duncan JA and **Kosiba AM**. *Regional projects to synthesize data*. Granite State Society of American Foresters Annual Meeting, Lincoln, NH | 9 February 2019.
28. ***Kosiba AM** and Duncan JA. *Identifying hemlock woolly adelgid-induced losses in riparian corridors in New York State for research, monitoring, and management*. HWA Managers Meeting, Albany, NY | 7 December 2018.

27. **Kosiba AM**, Duncan JA, Rayback SA, Schaberg PG, Murakami PJ, and Hansen CF. *Announcing the DendroEcological Network (DEN)*. Forest Ecosystem Monitoring Cooperative | 22 November 2018. Available at: www.youtube.com/watch?v=bBnOHtFVILQ
26. ***Kosiba AM**. *Connecting red spruce physiology to abiotic conditions*. Forest Ecosystem Health, UVM, Dr. Kimberly Wallin | 9 November 2018
25. ***Kosiba AM** and Duncan JA. *Introducing the Catskills Science Collaborative data access portal*. CERM Biannual Meeting, Highmount, NY | 25 October 2018.
24. Rayback SA, Schaberg PG, Duncan JA, **Kosiba AM**, Hansen CF, Murakami PJ, Pontius JA, Hawley G, Stern RL. *Tree ring data in eastern forests and the DendroEcological Network*. North American Forest Inventory and Tree-Ring Data Network Workshop. Tucson, AZ | 15 October 2018.
23. *Schaberg PG, **Kosiba AM**, Rayback SA, Hawley GJ. *Possible causes of red spruce resurgence*. North American Forest Inventory and Tree-Ring Data Network Workshop, Tucson, AZ | 15 October 2018.
22. **Kosiba AM**, Duncan JA, Meigs GW, Pontius JA, and Keeton W. *The Northeastern Forest Fragmentation Information Network (FragNet)*. Forest Ecosystem Monitoring Cooperative | 8 October 2018
21. Juice SM, Adair CE, Schaberg PG, Hawley GJ, **Kosiba AM**, Waite C, Wang D, Perdrial JN. *Interacting effects of climate change and soil characteristics on carbon and nitrogen loss from northern hardwood forests*. Ecological Society of America Annual Meeting, New Orleans, LA | 13 August 2018.
20. Duncan JA, **Kosiba AM**, Meigs GW, Pontius JA, Tait ER. *The Northeastern Forest Health Atlas – Making a century of mapped damage to forests easy to understand and access*. New England Society of American Foresters Annual Winter Meeting, Nashua, NH | 28 March 2018.
19. **Kosiba AM**, Meigs G, Duncan J, Pontius J, Keeton W, Tait E. *Regional spatiotemporal patterns of forest disturbance using aerial detection surveys*. FEMC Annual Conference, Burlington, VT | 15 December 2017.
18. **Kosiba AM**. *Pollution, land-use history, and climate change in the Northern Forest*. Global Change, UVM, Dr. Shelly Rayback | 29 April, 2017
17. **Kosiba AM**, Rayback SA, Hawley GJ, and Schaberg PG. *Surprising red spruce growth resurgence - causes and implications*. Northeastern States Research Cooperative | 21 December 2016
16. **Kosiba AM**, Schaberg PG, Rayback SA, Hawley GJ. *Linking climate and environmental factors to the recent and surprising growth increase of red spruce trees across the northeastern US*. American Geophysical Union Fall Meeting, San Francisco, CA | 12 December 2016.
15. **Kosiba AM**, Schaberg PG, Rayback SA, Hawley GJ. *Investigating the surprising, recent growth increase of red spruce trees across the region*. ECANUSA Meeting, Burlington, VT | 30 September 2016
14. Schaberg PG, Hawley GJ, Rayback SA, Pontius JA, **Kosiba AM**, Stern RL, Hansen CF, Murakami PC. *Building a dendroecology database for Hubbard Brook and beyond*. Hubbard Brook Annual Cooperators Meeting, Thornton, NH | 14 July 2016
13. Schaberg PG, Hawley GJ, Rayback SA, Pontius JA, **Kosiba AM**, Stern RL, Hansen CF, Murakami PC. *Tree growth trends*. Vermont Monitoring Cooperative Annual Meeting, Burlington, VT | 11 December 2015
12. **Kosiba AM**, Schaberg PG, Rayback SA, Hawley GJ. *Using dendroecological techniques to interpret the response of trees to environmental change*. Ecological Society of America Annual Meeting, Baltimore, MD | 12 August 2015

11. Schaberg PG, Engel BJ, Hawley GJ, Rayback SA, Pontius JA, **Kosiba AM**, Miller EK. *Assessing a 60-year red spruce radial growth chronology relative to pollution critical load exceedance values*. Ecological Society of America Annual Meeting, Baltimore, MD | 10 August 2015
10. ***Kosiba AM**, Schaberg PG, Rayback SA, Hawley GJ. *Using dendroecology to examine the response of trees to environmental gradients at VMC's long-term ecological study site, Mount Mansfield*. Vermont Monitoring Cooperative Annual Meeting, Burlington, VT | 11 December 2014
9. Rayback SA, Schaberg PG, Lini A, Hawley GJ, Halman J, **Kosiba AM**, Hansen CF. *The tree-ring perspective: how dendrochronological techniques enhance study of environmental change in New England*. Vermont Monitoring Cooperative Annual Meeting, Burlington, VT | 11 December 2014
8. **Kosiba AM**, Schaberg PG, Rayback SA. *Examining the recent growth trends of red spruce in the Northern Forest*. AmeriDendro Conference, Tucson, AZ | 16 May 2013
7. **Kosiba AM**. *Understanding tree ranges*. Guest lecture in Biogeography, UVM | 12 March 2013
6. **Kosiba AM**, Schaberg PG, Hawley GJ, Hansen CF. *The legacy of foliar winter injury on xylem growth and aboveground carbon sequestration for red spruce in the northeastern forest*. ECANUSA Conference, Durham, NH | 12 November 2012
5. **Kosiba AM**. *Range changes of forest trees*. Guest lecture in Forest Ecology, UVM | 4 April 2012
4. **Kosiba AM**, Schaberg PG, Hawley GJ, Hansen CF. *Quantifying the impact of winter injury on the long-term carbon sequestration of red spruce*. Northeastern Forest Research Symposium, S. Burlington, VT | 29 November 2011
3. **Kosiba AM**. *Range change of red spruce through time*. Guest lecture in Biogeography, UVM | 10 November 2011
2. **Kosiba AM**, Schaberg PG, Hawley GJ, Hansen CF. *The influence of winter injury on the long-term carbon sequestration of red spruce trees in the northeastern United States*. Ecological Society of America Annual Meeting, Austin, TX | 12 August 2011
1. **Kosiba AM**. *The influence of winter injury on the carbon sequestration of red spruce trees*. RSENR Graduate Research Symposium, Burlington, VT | 10 October 2010

GRANTS

4. **Kosiba AM**. 2021. *Climate adaptation for Vermont's forests and forest supply chain*. USDA Forest Service Landscape Scale Restoration Grant Program 2022 [\$298,665]
3. **Kosiba AM**. 2020. *Climate adaptation for Vermont's forests*. USDA Forest Service Landscape Scale Restoration Grant Program 2021 [\$310,223] Selected for funding, but exceeded state funding allocation.
2. Pontius JA, **Kosiba AM**, Duncan JA, D'Amato A, Weiskittle A. 2019. *Forest inventory data integration, access, and analysis: A sustainable data infrastructure for forest managers and researchers in the northeastern US*. USDA Agriculture and Food Research Initiative [\$290,833]
1. Pontius JA, Duncan JA, **Kosiba AM**, Finnegan MO. 2018. *Linking Forest Science to Policy: Enhancing quick and easy access to data required to inform decision making across Vermont's forested landscape*. James M. Jeffords Fund Policy Studies Grant Proposal [\$9,869].

ONLINE TOOLS & DATABASES

11. **Kosiba AM**, Belisile A, Desideraggio G, Nevins Cooper C, Tait E, and Duncan JA. 2020. *Threats to the Urban Forest: The Potential Impacts of Invasive Forest Pests and Diseases in the Northeast*. Available at: <https://arcg.is/18ebfX>
10. **Kosiba AM**, Pupko J, elisile A, Tait E, Voorhis N, Duncan JA, and Krebs J. 2020. *REGEN: Northeast Forest Regeneration Data Network*. Available at: https://www.uvm.edu/femc/forest_regen

9. **Kosiba AM**, Tait E, Sirch M, Duncan JA, and Beier C. 2019. *Risk of invasive plant transfer in the Adirondack Park*. Available at: <https://arcg.is/OSXiC>
8. **Kosiba AM**, Nevins M, and Duncan JA. 2019. *Forest clearing detected in New Hampshire using remote sensing (2000-2018)*. Available at: <https://arcg.is/WSK4y>
7. **Kosiba AM**, Finnegan MO, and Duncan JA. 2018. *The Climate Connection*. Available at: www.uvm.edu/femc/climate-connection
6. **Kosiba AM** and Duncan JA. *Projected hemlock woolly adelgid-induced losses in riparian corridors in New York State*. Available at: <https://arcg.is/1D1LXe>
5. **Kosiba AM**, Lovett G, and Duncan JA. 2018. *Catskill Science Collaborative data access portal*. Available at: <https://www.uvm.edu/femc/catskill>
4. Rayback SA, Schaberg, PG, Duncan JA, **Kosiba AM**, Murakami PJ, and Hansen CF. 2018. *DendroEcological Network (DEN)*. Available at: www.uvm.edu/femc/dendro
3. Duncan JA, Truong JM, **Kosiba AM**, Finnegan MO, and Pontius JA. 2018. *The Northeast Forest Fragmentation Information Network (FragNet)*. Available at: www.uvm.edu/femc/fragnet
2. Duncan JA, **Kosiba AM**, Pontius JA, and Truong J. 2018. *Vermont Forest Indicators Dashboard*. Available at: www.uvm.edu/femc/vt/indicators
1. Duncan JA, Meigs GW, Tait ER, **Kosiba AM**, Pontius JA, and Keeton W. 2017. *Northeastern Forest Health Atlas*. Available at: www.uvm.edu/femc/forest-health-atlas

AWARDS

- Vermont Department of Forests, Parks and Recreation Merit Award | 2021
- NFZ Summer School “FORESCALE” Award | 2015
- USDA McIntire-Stennis Ph.D. Research Assistantship | 2012-2017
- RSENR Distinguished Research and Scholarship Award | 2015
- Great Lakes National Scholar | 2014
- USDA McIntire-Stennis M.S. Research Assistantship | 2009-2011
- Tufts University Summer Scholar | 2003
- Philips Scholar | 2000 – 2004

SERVICE & LEADERSHIP

- New England Society of American Foresters Annual Meeting Programming Committee | 2022
- Green Mountain Division of the Society of American Foresters Executive Committee - Chair | 2022-2023
- Vermont Woodlands Association Educational Programming Committee | 2022-Present
- Green Mountain Division of the Society of American Foresters Executive Committee - Vice Chair | 2021-2022
- Sosyette pou Rebwaze Duchity, Haiti (SRDH) Executive Committee | 2021-Present
- Southern New England Forest Climate Adaptation Network (For CAN) | 2018-Present
- Journal reviewer -- Forest Ecology and Management, Science of the Total Environment, PeerJ, Forests, Silva Fennica, Ecological Applications, Southeastern Geographer
- Mentor – 40+ students, interns, and technicians | 2009-Present
- Conservation Commission - Vice Chair, Town of Bolton, VT | 2013-2018
- Forest Steward, Town of Bolton, VT | 2016-2018
- Fall Seminar Series Co-chair, UVM RSENR, Burlington, VT | 2015
- Forest Pest Detector, Vermont Urban and Community Forestry, Essex, VT | 2014-Present

IN THE MEDIA

Fall is here. Is climate change muting Vermont's foliage? Vermont Edition | 22 September 2022.

<https://www.vermontpublic.org/show/vermont-edition/2022-09-22/fall-is-here-is-climate-change-muting-vermonts-foliage>

Northeast climate program helps forest landowners secure carbon. Glenn Rosenholm, Inside the FS | 20 July 2022. Available at: <https://www.fs.usda.gov/inside-fs/delivering-mission/sustain/northeast-climate-program-helps-forest-landowners-secure>

Carbon, what? SilviCast Podcast, Wisconsin DNR | 30 June 2022. Available at:

<https://www3.uwsp.edu/cnr-ap/WFC/Pages/WFC/Research-and-Development/CarbonWHAT.aspx>

There's One Thing About Fall Colors Scientists Can't Explain. PBS Terra | 12 November 2020. Available at:

<https://www.youtube.com/watch?v=mPbU2XqIloE>

Into the Woods: Getting to Know Trees from The Roots on Up. Vermont Edition, Vermont Public Radio | 3 July 2019. Available at: <https://www.vpr.org/post/woods-getting-know-trees-roots#stream/0>

Alexandra Kosiba, University of Vermont – The Rebound of the Red Spruce. Academic Minute | 30 November 2018 | Available at: academicminute.org/2018/11/alexandra-kosiba-university-of-vermont-the-rebound-of-the-red-spruce/

Resurgence of Red Spruce. Across the Fence, WCAX | 4 September 2019. Available at:

<https://www.youtube.com/watch?v=QQwfJHOFmH0>

Pollution controls help red spruce rebound from acid rain. Lisa Rathke, Associated Press | 11 July 2018

Featured in: Miami Herald, Houston Chronicle, Charlotte Observer, Sacramento Bee, Charleston Gazette-Mail, San Francisco Chronicle, Washington Times, Washington Post, Vancouver Sun, Christian Science Monitor, ABC News, Albany Democrat-Herald, Burlington Free Press, and Montpelier Times-Argus

Study Shows Red Spruce Trees in New England Are Recovering After Decades of Damage. Michel Martin, All Things Considered, National Public Radio | 14 July 2018

UVM Study: Spruce Trees Are Recovering from Acid Rain, Years After Tighter Pollution Controls. John Dillon, Vermont Public Radio | 12 June 2018

Red spruce rising. Joe Herring, Northern Woodlands magazine | Winter 2016 (Issue 88)

Is Climate Change to Thank for Dramatic Recovery of Acid Rain's 'Canary in The Coal Mine'? Sam Evans-Brown, New Hampshire Public Radio | 2 June 2013

Red spruce reviving in New England, but why? | USDA Forest Service | 30 August 2013

PROFESSIONAL MEMBERSHIPS & LICENSES

- Vermont Licensed forester
- Society of American Foresters
- Green Mountain Division of the Society of American Foresters
- Forest Stewards Guild