

## CURRICULUM VITAE – 01/05/2026

# Jordon C. Tourville

Email: [jtourville@outdoors.org](mailto:jtourville@outdoors.org)

Phone: 734-263-5530

orcid.org/0000-0003-4005-5914

Website: <https://www.jordontourville.com>

Appalachian Mountain Club

10 City Square,

Boston, MA 02129, USA

### Education

---

2022	<b>SUNY – College of Environmental Science and Forestry</b> Ph.D. Ecology	Syracuse, NY
2018	<b>University of Michigan</b> M.S. – Natural Resources and Environment	Ann Arbor, MI
2013	<b>University of Vermont</b> B.A. Biology; Minor in History	Burlington, VT

### Recent professional appointments

---

2024-Present	<b>Terrestrial Ecologist/Staff Scientist</b> , Appalachian Mountain Club
2022-2024	<b>Ken Kimball Postdoctoral Research Fellow</b> , Appalachian Mountain Club
2022	<b>Guest Lecturer – Forest Health (FOR 3350)</b> , University of Vermont
2019-2022	<b>Research Associate</b> , Dovciak Lab – SUNY ESF
2018-2021	<b>Teaching Assistant</b> , Dept. of Environmental Biology, SUNY ESF
2017-2018	<b>Graduate Student Instructor</b> , SEAS, University of Michigan
2017-2018	<b>Research Assistant II</b> , Ibanez Lab – University of Michigan

### Recent grants, awards, & fellowships

---

2025	<b>National Science Foundation</b> , Senior PI (U. Maine subaward)	
2023	<b>Ecosystem Monitoring Fund</b> , Forest Ecology Monitoring Cooperative	\$23,900
2022	<b>ESA Vegetation Section Ton Damman Award</b>	\$210
2022	<b>Lowe-Wilcox Graduate Student Scholarship</b> , SUNY ESF	\$7,000
2021	<b>Edwin H. Ketchledge Scholarship Fund</b> , SUNY ESF	\$2,700
2021	<b>Sussman Fund Graduate Internship and Special Merit Award</b>	\$8,000

### Publications (peer-reviewed, in review, or in prep)

---

† I am the first and/or corresponding author

- 2026 †**Tourville, J. C.**, Murray, G., Robinson, S., Weihrauch, D., & Kimball, K. (2026). Alpine vegetation shifts in the Northeastern US: Evidence for combined climate and nitrogen forcing. *Ecosphere*, in review.
- Chipman, J., Ko, I., & **Tourville, J. C.** (2026). Long-term trends in greenness and landscape phenology in the alpine zone from remote sensing. *Ecosphere*, in review.
- Kiel, N., **Tourville, J. C.**, Wason, J., & Dovciak, M. (2026). Overstory tree basal area interacts with microsite factors to influence forest regeneration patterns across elevation. *Journal of Biogeography*, in review.
- 2025 †**Tourville, J.**, & Dovciak, M. (2025). Patterns of Herbivory and Resource Utilization of Tree Seedlings Along an Altitudinal Gradient. *Ecosystems*, 28(5), 50.  
<https://doi.org/10.1007/s10021-025-00994-5>
- Morelli, T. L., Mozelewski, T., Cavalieri, C. N., Caven, A. J., Dreiss, L. M., Hovel, R. A., **Tourville, J. C.**, & Stralberg, D. (2025). Conserving climate-change refugia: Insights from research and

- practice. *Conservation Science and Practice*, e70160. <https://doi.org/10.1111/csp2.70160>
- Phillips, K. B., Lineman, B., Murray, G. L., Nelson, S. J., Sperduto, D. D., & †**Tourville, J. C.** (2025). Refugia or at risk? Alpine snowbank communities in the face of climate change. *Conservation Science and Practice*, e70079. <https://doi.org/10.1111/csp2.70079>
- 2024 †**Tourville, J.**, Horton, T., & Dovciak, M. (2024). Mycorrhizal fungi as critical biotic filters for tree seedling establishment during species range expansions. *Ecological Monographs*, e1634. <https://doi.org/10.1002/ecm.1634>
- †**Tourville, J.**, Murray, G., & Nelson, S. (2024). Distinct latitudinal patterns of shifting spring phenology across the Appalachian Trail Corridor. *Ecology*, e4403. <https://doi.org/10.1002/ecy.4403>
- Hale, K.R., Curlis, J.D., Auteri, G.G., Bishop, S., French, R.L., Jones, L.E., Mills, K.L., Scholtens, B.G., Simons, M., Thompson, C. and **Tourville, J.**, 2024. A highly resolved network reveals the role of terrestrial herbivory in structuring aboveground food webs. *Philosophical Transactions B*, 379(1909), p.20230180. <https://doi.org/10.1098/rstb.2023.0180>
- 2023 †**Tourville, J.**, Zarfos, M. R., Lawrence, G. B., McDonnell, T. C., Sullivan, T. J., & Dovciak, M. (2023). Soil biotic and abiotic thresholds in sugar maple and American beech seedling establishment in forests of the northeastern United States. *Plant and Soil*, 1-14. <https://doi.org/10.1007/s11104-023-06123-2>
- †**Tourville, J.**, Publicover, D., & Dovciak, M. (2023). Forests on the move: tracking climate-related treeline changes in mountains of the northeastern United States. *Journal of Biogeography*, 00, 1–15. <https://doi.org/10.1111/jbi.14708>
- †**Tourville, J.**, & Dovciak, M. (2023). Small mammal granivory as a biotic filter for tree establishment beyond elevation range boundaries. *Plant Ecology*, 1-13. <https://doi.org/10.1007/s11258-023-01305-5>
- 2022 †**Tourville J.**, Wason J, Dovciak M. (2022). Canopy gaps facilitate upslope shifts in montane conifers but not in temperate deciduous trees in the Northeastern United States. *Journal of Ecology*. 110(12), 2870-2882. <https://doi.org/10.1111/1365-2745.13993>
- Beeles, K. L., **Tourville, J. C.**, and Dovciak, M. (2022). Characterizing Canopy Openness Across Large Forested Landscapes Using Spherical Densimeter and Smartphone Hemispherical Photography. *Journal of Forestry*, 120(1), 37-50. <https://doi.org/10.1093/jofore/fvab046>
- 2021 Griffin-Nolan, R., Mohanbabu, N., Araldi-Brondolo, S., Ebert, A., LeVonne, J., Lumbsden-Pinto, J., Roden, H., Stark, J., **Tourville, J.**, Becklin, K., Drake, J., Frank, D., Lamit, J., & Fridley, J. (2021). Friend or foe? The role of biotic agents in drought-induced plant mortality. *Plant Ecology*, 1-12. <https://doi.org/10.1007/s11258-021-01126-4>
- Wason, J., Battles, J., Berdugo, M. B., Casson, P., **Tourville, J.**, & Dovciak, M. (2021). Sentinel Research Sites in Global Change Research: Whiteface Mountain, New York. *Northeastern Naturalist*, 28(sp11), 47-63. <https://doi.org/10.1656/045.028.s11042019>
- 2019 Ibanez, I., Acharya, K., Juno, E., Karounos, C., Lee, B., McCollum, C., Schaffer-Morrison, S., & **Tourville, J.** (2019). Forest resilience after disturbance: implications for conservation and management practices. *PloS One*, 14(9). <https://doi.org/10.1371/journal.pone.0222207>

## Students mentored

(listed alphabetically by last name) \*published first-authored paper as an undergraduate

**Kirk Acharya** (undergraduate at University of Michigan, now plant biologist for NPS)

**Josiah Ault** (undergraduate at University of Michigan, now MS student at University of Vienna)

\***Katie Beeles** (undergraduate at SUNY-ESF, Botanist for the State of New York)

**Audrey Fatone** (undergraduate at SUNY-ESF, now MS student at North Carolina State University)

**Rachel Goland** (UVM Field Naturalist Master's student, Master's thesis committee)

**Leslie Hamar** undergraduate at University of Michigan, now an Alaskan Fisheries Observer)

**Hailey Lynch** (undergraduate at SUNY-ESF, now trail coordinator for Green Mountain Club)

**Hannah Rola** (undergraduate at SUNY-ESF)

**Ben VanderStouw** (undergraduate at SUNY-ESF)

**Amanda Varhol** (undergraduate at SUNY-ESF)

**Heather Zimba** (undergraduate at SUNY-ESF, now MS student at New Mexico State University)

## Courses taught

---

### University of Vermont: Burlington, VT

- 2025 **PBIO3990: Alpine Plant Ecology (Guest)**  
2023 **FOR3350: Forest Health (Guest)**

### SUNY-ESF: Syracuse, NY

- 2025 **EFB 202: Ecological Monitoring and Biodiversity Assessment.** Cranberry Lake Biological Station (Plant Ecology)  
2025 **EFB 202: Ecological Monitoring and Biodiversity Assessment.** Cranberry Lake Biological Station (Sampling Design)  
2021 **EFB 202: Ecological Monitoring and Biodiversity Assessment.** Cranberry Lake Biological Station (Plant Ecology)  
2021 **EFB 202: Ecological Monitoring and Biodiversity Assessment.** Cranberry Lake Biological Station (Orienteering)  
2020 **EFB 210: Diversity of Life I**  
2018-19 **EFB 434/635: Flowering Plant Systematics and Evolution**

### University of Michigan: Ann Arbor, MI

- 2018 **EAS 531: Principles of GIS**  
2017 **EAS 436: Woody Plants: Biology and Identification**

## Outreach and volunteering

---

- 2025-26 **Waterman Fund:** Northeast Alpine Stewardship Gathering planning committee, East Corinth, VT  
2025-26 **Branch Out Burlington!:** Board member for local NGO with a mission to support urban forestry efforts, Burlington, VT  
2023 **Mount Washington Observatory:** Trip leader for MWO's Edutrip winter mountain educational series, Gorham, NH  
2023 **Appalachian Mountain Club:** Trip leader for AMC annual climate education hike; Trip leader for alpine plant identification walks, Gorham, NH  
2021-26 **Green Mountain Club:** Trail and corridor monitor; Leading forest ecology education and outreach (leading plant identification and ecology walks), Waterbury, VT  
2021-22 **Vermont Youth Conservation Corps Forestry Crew:** Leading forest ecology lectures and training (plant identification and forest management techniques to professional forestry crews), Richmond, VT  
2018-22 **SUNY-ESF:** Departmental Representative for Graduate Student Association; Graduate Student Ambassador; Mentor for Annual Colloquium on Teaching and Learning, Syracuse, NY  
2018 **BioBlitz Detroit:** Leading ecological and agricultural educational programs for Detroit elementary and middle-school children, Detroit, MI  
2016-18 **Matthaei Botanical Gardens and Nichols Arboretum:** Leading public walking tours and ecological education (invasive species education and management); Student representative to University of Michigan Tree Advisory Council, Ann Arbor, MI  
2011-16 **Echo Lake Champlain Aquarium and Science Center:** Animal care intern (maintenance of animal enclosures and animal intake); Resource room volunteer (developing educational materials and programs for children), Burlington, VT

## Science communication and non-peer reviewed publications

---

- 2025 **Forests are migrating up mountain peaks**, Science Magazine article. <https://www.science.org/content/article/forests-are-migrating-mountain-peaks>  
**Even Trees Need Friends**: Sierra Club Magazine article. <https://www.sierraclub.org/sierra/even-trees-need-friends>  
**A new study looks at how to protect rare plants in snowy patches of Mount Washington as NH warms**: New Hampshire Public Radio; Vermont Public. <https://www.nhpr.org/nh-news/2025-07-06/rare-plants-mount-washington-snow-climate-change-research-nh>
- 2024 **Hikers' photos aid study of how climate change is transforming the Appalachian Trail**: New Hampshire Public Radio. <https://www.nhpr.org/nh-news/2024-09-16/hikers-photos-aid-study-of-how-climate-change-is-transforming-the-appalachian-trail>  
**As temperatures rise, so do Maine's mountain tree lines**: Portland Press Herald article. <https://www.pressherald.com/2024/07/28/as-temperatures-rise-so-do-maines-mountain-tree-lines/>  
**Backcountry Skiing Is Booming in the Northeast. But Can It Survive?**: New York Times article. <https://www.nytimes.com/2024/01/19/travel/northeast-backcountry-skiing-threatened.html>.
- 2021 **How Climate Change May Be Shifting the Mountain Tree Line**: AMC Outdoors magazine article. <https://www.outdoors.org/resources/amc-outdoors/conservation-and-climate/how-climate-change-may-be-shifting-the-mountain-tree-line/>
- 2018 **Tourville, J. C.**, Lindman, M., Weinstein, C., Schultze, R., and Noack, M. 2018. Moose Herbivory Monitoring Protocol for Isle Royale National Park. Natural Resource Report NPS/ISRO/NRR—2018/XXXX. National Park Service, Fort Collins, Colorado.
- 2016 **A black swallowwort by any other name is still just as toxic**: Blog post series related to various invasive plants of Rhode Island: U.S. Fish and Wildlife Service Northeast Region. <https://usfwsnortheast.wordpress.com/2016/07/05/a-black-swallowwort-by-any-other-name-is-still-just-as-toxic/>
- 2015 **Tourville, J. C.**, and Armstrong, M. 2015. Invasive species management for Katmai National Park & Preserve, Alagnak Wild River, and Aniakchak National Monument & Preserve: 2015 summary report. Natural Resource Data Series NPS/KATM/NRDS—2015/672. National Park Service, Fort Collins, Colorado.  
**Katmai team fights invasive plants**: Radio interview for KDLG, NPR affiliate in Bristol Bay, Alaska. <https://www.kdlg.org/environment/2015-09-10/katmai-team-fights-invasive-plants>

## Invited presentations (scientific and public audiences)

---

- 2026 **Green Mountain Club, Taylor Series**, January: "Living on the Edge: Past, Present, and Future Changes of Northeastern Alpine Zones"  
**US Forest Service, Sense of Place Series**, January: "Snow persistence and changing winters in the alpine and the White Mountains"  
**Friends of Castleton Library**, April: "Underground Allies: The Crucial Relationship Between Trees and Mycorrhizal Fungi"
- 2025 **Vermont Center for Ecostudies, Suds and Science Series**, February: "Underground Allies: The Crucial Relationship Between Trees and Mycorrhizal Fungi"  
**Rutland County Audubon**, May: "Underground Allies: The Crucial Relationship Between Trees and Mycorrhizal Fungi"  
**Berkshire Chapter of the American Rock Garden Society**, September: "Underground Allies: The Crucial Relationship Between Trees and Mycorrhizal Fungi"

- University of Maine, School of Biology Seminar Series**, October: "Living on the Edge: Past, Present, and Future Changes of Northeastern Alpine Zones"
- 2024 **Syracuse University, Biology Department**, March: "Spatial dynamics of climate induced tree range shifts and the influence of biotic interactions on tree seedling establishment"
- University of Vermont, Plant Biology Department**, February: "Montane and alpine plant communities in an era of global change: perspectives from the Appalachian Mountain Club"
- 2023 **Mount Washington Observatory, (MWO)**, Science in the Mountains lecture series: "Plant Responses to Shifting Climate Across the High Elevation Areas of the Northeast."  
[https://www.youtube.com/watch?v=GCd9b161YQ&t=1765s&ab\\_channel=MountWashingtonObservatory](https://www.youtube.com/watch?v=GCd9b161YQ&t=1765s&ab_channel=MountWashingtonObservatory)
- 2023 **Appalachian Mountain Club (AMC)**, President's Society climate hike and public lecture
- 2023 **Appalachian Mountain Club (AMC)**, President's Society public lecture
- 2022 **UVM**, Burlington, VT. Guest lecture on mycorrhizal ecology for Forest Health 3350.
- 2020 **Symposium on Climate Change in Maine's Mountains**. "Directions and Drivers of Tree Elevation Range Shifts in the Northeastern United States: Insights and Implications for Management." Oral presentation.
- 2020 **SUNY-ESF**, Research Seminar (Ecolunch). Syracuse, USA.
- 2019 **SUNY-ESF**, Research Seminar (Ecolunch). Syracuse, USA.

### **Conference oral presentations (presenting author only)**

- 2025 **Tourville, J. C.** "Non-climatic factors constrain climate-driven tree migration in mountains" Plant Migration in a Changing Climate Symposium, Booth Bay, ME, USA.
- Tourville, J. C.** "Non-climatic factors constrain climate-driven tree migration in mountains" ESA Annual Conference, Baltimore, MD, USA.
- 2024 **Tourville, J. C.** "Current research and natural history of the plant communities of Mt. Washington" ESA Annual Conference, Long Beach, CA, USA.
- Tourville, J. C.** "Alpine vegetation shifts in the Northeastern US: Evidence for combined climate and nitrogen forcing." NEASG, Highland Center, NH, USA.
- 2023 **Tourville, J. C., G. Murray, and S.J. Nelson.** "Understory plant phenological windows shift asynchronously across the Appalachian Trail corridor with warming springs." ESA Annual Conference, Portland, OR, USA.
- Tourville, J. C., T.J. Horton, and M. Dovciak.** "Mycorrhizal fungi as critical biotic filters on tree seedling establishment during species range expansions." Northeastern Natural History Conference. Burlington, VT, USA.
- Tourville, J. C., G. Murray, and S.J. Nelson.** "Patterns and drivers of woodland understory flower phenology and canopy closure." Adirondack Research Forum. Old Forge, NY, USA.
- 2022 **Tourville, J. C., G. Murray, and S.J. Nelson.** "Patterns and drivers of woodland understory flower phenology and canopy closure." Forest Ecology Monitoring Cooperative Annual Conference. Burlington, VT, USA: <https://streaming.uvm.edu/watch/47439/patterns-and-drivers-of-woodland-understory-flower-phenology-and-canopy-closure/>
- Tourville, J. C., D. Publicover, and M. Dovciak.** "Forests on the Move: Tracking Climate Related Changes of Treelines in Montane Systems of the Northeast." Northeastern Alpine Stewardship Gathering. Craftsbury, VT, USA.
- Tourville, J. C., D. Publicover, and M. Dovciak.** "Forests on the Move: Tracking Climate Related Changes of Treelines in Montane Systems of the Northeast." Adirondack Research Forum. Virtual.
- Tourville, J. C., D. Publicover, and M. Dovciak.** "Forests on the Move: Tracking Climate Related Changes of Treelines in Montane Systems of the Northeast." ESA Annual Conference. Montreal, QC, Canada.

- 2021 **Tourville, J. C.**, D. Publicover, and M. Dovciak. "Forests on the Move: Tracking Climate Related Changes of Treelines in Montane Systems of the Northeast." Forest Ecology Monitoring Cooperative Annual Conference. Virtual.  
**Tourville, J. C.** "Directions and Drivers of Tree Elevation Range Shifts in the Northeastern United States: Insights and Implications for Management." Adirondack Research Forum. Virtual.
- 2020 **Tourville, J. C.**, J. Wason, and M. Dovciak. "Potential Elevation Range Shifts of Dominant Tree Species in the Northeastern United States Revealed by Seedling Distributions." ESA Annual Conference. Virtual.
- 2018 **Tourville, J. C.**, I. Ibanez, K. Acharya, E. Juno, C. Karounos, B. R. Lee, C. McCollum, and S. Schaffer-Morrison. "Forest resilience after disturbance: implications for conservation and management practices." ESA Annual Conference. New Orleans, LA, USA.

**Conferences with poster presentations and years:**

Ecological Society of America, Student Conference on Conservation Science, UVM Student Research Symposium, Forest Ecosystem Monitoring Cooperative  
 Contributed posters: 2013, 2017, 2021, 2025

**Service/Society membership**

---

**Reviewer for:** *Forest Ecology and Management, Journal of the Torrey Botanical Society, Journal of Vegetation Science, Ecological Society of America Annual Conference, Journal of Ecology*

**Member of:** Botanical Society of America, Ecological Society of America, Mycological Society of America, New England Botanical Club, Native Plant Trust, American Geophysical Union

**Relevant data skills**

---

Computer programming

- R (fluent)
- Python (fluent)
- Java (proficient)

Data analysis

- Spatial data: ArcGIS Pro, Desktop, and QGIS
- Bayesian modeling