

RYAN B. STEPHENS

Wildlife Ecologist

| Curriculum Vitae |

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EMPHASIS AREA

By exploring the linkages among small mammals, mycorrhizal fungi, and trees, my interdisciplinary research addresses questions at the nexus of animal ecology, fungal ecology, and forestry to better understand how forests function and to inform best wildlife management practices. I study how small mammals use food and habitat resources and how resource pulses, competitive interactions, and changes in community composition modulates their functional role in an ecosystem. I am dedicated to teaching and mentoring the next generation of wildlife researchers and natural resource professionals.

EDUCATION

- Ph.D.**, University of New Hampshire, Durham, NH 2012 – 2018
Natural Resources and the Environment | Advisor: Dr. Rebecca Rowe
Small mammal community dynamics and the dispersal of mycorrhizal fungi
- M.S.**, University of Wisconsin Stevens Point, Stevens Point, WI 2010 – 2012
Natural Resources - Emphasis in Wildlife Ecology | Advisor: Dr. Eric Anderson
Small mammal assemblages in natural plant communities of Wisconsin
- B.S.**, University of Wisconsin Stevens Point, Stevens Point, WI 2005 – 2009
Double Major in Wildlife Ecology (Research and Management) and Biology
Minor in Museum Methods | GPA: 3.99
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PROFESSIONAL EXPERIENCE

- 2019 – Present **NIFA Postdoctoral Fellow** – Studying the influence of small mammals on mycorrhizal fungi and plant communities during forest regeneration; University of New Hampshire, Durham, NH | Advisors: Drs. Rebecca Rowe and Serita Frey
- 2018 – 2019 **Post-doctoral Research Associate** – Studying the influence of small mammals on mycorrhizal fungi and plant communities during forest regeneration; University of New Hampshire, Durham, NH | Advisor: Drs. Rebecca Rowe
- 2014 – Present **Yale Peabody Museum of Natural History Curatorial Affiliate** – Appointed by a vote of the Board of Curators, this honorary title is given to individuals who give some of their time and expertise to the Division. Prepared a collection of over 1,000 specimens for the Yale Peabody Museum of Natural History.
- 2014 – 2017 **Graduate Teaching Assistant** – Taught labs for Studio Soils (fall semesters 2014 – 2016), Mammalogy (spring semester 2016), and Ornithology (spring Semester 2017); University of New Hampshire, Durham, NH
- 2012 – 2013 **Graduate Research Assistant** – Studied factors influencing small mammal community dynamics; University of New Hampshire, Durham, NH

- 2011 – 2012 **Graduate Teaching Assistant** – Taught labs for Mammalogy (spring semester 2012) and Ecological Basis for Natural Resources Management (spring semester 2012); University of Wisconsin Stevens Point, Stevens Point, WI
- 2010 – 2012 **Independent contractor for the Wisconsin DNR** – Wrote guidance documents for six small mammal species listed as Species of Greatest Conservation Need. Conducted field inventories of small mammals during the summer of 2011 on State properties in the Driftless Region along with Mead and McMillan Wildlife Areas, Wisconsin.
- 2008 **Smithsonian Research Training Program** – Smithsonian Institution Summer Internship, Washington, D.C. | Advisor: Dr. Neal Woodman
- 2006 – 2012 **Assistant Curator of Mammalogy and Ornithology** – Prepared birds and mammals specimens, maintained a dermestid colony, and prepared and packaged loans; Museum of Natural History, University of Wisconsin Stevens Point, Stevens Point, WI

PUBLICATIONS

Peer-Reviewed Publications

* denotes undergraduate mentee of R.B. Stephens

- Stephens, R. B.**, A. M. Trowbridge, A. P. Ouimette, W. B. Knighton and E. A. Hobbie, P. C. Stoy, and R. J. Rowe. in press. Signaling from below: rodents select for deeper fruiting truffles with stronger volatile emissions. *Ecology*
- Ouimette, A. P., S. V. Ollinger, L. C. Lepine, **R. B. Stephens**, R. J. Rowe, M. A. Vadeboncoeur, S. J. Tumber-Davila, E. A. Hobbie. in press. Accounting for carbon flux to mycorrhizal fungi may resolve discrepancies in forest carbon budgets. *Ecosystems*
- Hope, A. G., **R. B. Stephens**, S. D. Mueller, V.L.V. Tkach, J. R. Demboski. in press. Speciation of North American pygmy shrews (Eulipotyphla: Soricidae) supports spatial but not temporal congruence of diversification among boreal species. *Biological Journal of the Linnean Society*
- Tisell, H. B., A. L. Deggrassi, **R. B. Stephens**, and R. J. Rowe. in press. Influence of field technique, density, and sex on home range and overlap of the southern red-backed vole (*Myodes gapperi*). *Canadian Journal of Zoology*
- Stephens, R. B.**, E. A. Hobbie, T. D. Lee, and R. J. Rowe. 2019. Pulsed resource availability changes dietary niche breadth and partitioning between generalist rodent consumers. *Ecology and Evolution* 9:10681-10693.
- Stephens, R. B.**, C. B. Burke*, N. Woodman, L. B. Poland*, and R. J. Rowe. 2018. Skeletal injuries in small mammals: a multispecies assessment of prevalence and location. *Journal of Mammalogy* 99:486-497.
- Stephens, R. B.**, T. J. Remick*, M. J. Ducey, and R. J. Rowe. 2017. Drivers of truffle biomass, community composition, and richness among forest types in the northeastern US. *Fungal Ecology* 29:30-41.
- Stephens, R. B.**, D. J. Hocking, M. Yamasaki, and R. J. Rowe. 2017. Synchrony in small mammal community dynamics across a forested landscape. *Ecography* 40: 1198–1209. (Cover page)
- Castellano, M. A. and **R. B. Stephens**. 2017. *Elaphomyces* species (Elaphomycetaceae, Eurotiales) from Bartlett Experimental Forest, New Hampshire, USA. *IMA Fungus* 8:49-63.
- Stephens, R. B.**, K. H. Karau*, C. J. Yahnke, S. R. Wendt*, and R. J. Rowe. 2015. Dead mice can grow – variation of standard external mammal measurements from live and three postmortem body states. *Journal of Mammalogy* 96:185-193.
- Stephens, R. B.** and E. M. Anderson. 2014. Effects of trap type on small mammal richness, diversity, and mortality. *Wildlife Society Bulletin* 38:619-627.
- Stephens, R. B.** and E. M. Anderson. 2014. Habitat associations and assemblages of small mammals in natural plant communities of Wisconsin. *Journal of Mammalogy* 95:404-420.

- Stephens, R. B.**, E. M. Anderson, S. R. Wendt*, and J. K. Meece. 2014. Field identification of *Peromyscus leucopus noveboracensis* and *P. maniculatus gracilis* in Wisconsin from external measurements. *The American Midland Naturalist* 171:139-146.
- Woodman, N. and **R. B. Stephens**. 2010. At the foot of the shrew: manus morphology distinguishes closely-related *Cryptotis goodwini* and *Cryptotis griseoventris* (Mammalia, Soricidae) in Central America. *Biological Journal of the Linnean Society* 99:118-134.

In Review

- Stephens, R. B.** and R. J. Rowe. in revision. The underappreciated role of generalists in rodent-mycorrhizal dispersal networks. *Ecology*

OTHER PUBLICATIONS

Wisconsin Department of Natural Resources Guidance Documents (Three additional documents pending publication)

- Wisconsin woodland vole species guidance. 2013. Bureau of Natural Heritage Conservation, Wisconsin Department of Natural Resources, Madison, Wisconsin. [PUB-ER-691](#).
- Wisconsin woodland jumping mouse species guidance. 2013. Bureau of Natural Heritage Conservation, Wisconsin Department of Natural Resources, Madison, Wisconsin. [PUB-ER-690](#).
- Wisconsin northern flying squirrel species guidance. 2012. Bureau of Endangered Resources, Wisconsin Department of Natural Resources, Madison, Wisconsin. [PUB-ER-678](#).

PRESENTATIONS

Invited Seminars

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| 2019 | The hidden world of trees, truffles, and small mammals
Audubon Society, Stevens Point, WI |
| 2019 | The importance of small mammals and mycorrhizal fungi in forest management
New England Society of American Foresters Meeting, Burlington, VT |
| 2019 | Small mammals, truffles, and trees: linking above- and below-ground interactions
Department of Wildlife, Fisheries and Conservation Biology Seminar Series; University of Maine, Orono, ME |
| 2019 | Linking small mammals and mycorrhizal fungi to forest regeneration
Second College Grant Research Symposium; Dartmouth, Hanover, NH |
| 2018 | Small mammals, truffles, and the dispersal of mycorrhizal fungi
Department of Liberal Arts and Sciences Seminar; SUNY – Delhi, Delhi, NY |
| 2017 | Consumer dynamics and mycophagy: small mammals as dispersers of mycorrhizal fungi
Department of Plant Pathology Seminar Series; University of Florida, Gainesville, FL |
| 2016 | Truffles: the mycorrhizal hitchhiker
Cascade Mycological Society, Eugene, OR |
| 2016 | Truffles: the mycorrhizal hitchhiker
North American Truffling Society, Corvallis, OR |

Professional Meetings

* denotes undergraduate mentee of R.B. Stephens

- Stephens, R. B.**, A. M. Trowbridge, A. P. Ouimette, W. B. Knighton and E. A. Hobbie, P. C. Stoy, and R. J. Rowe. 2019. Signaling from below: rodents select for deeper fruiting truffles with stronger volatile emissions. 87th Meeting of the Mycological Society of America, Minneapolis, MN. (talk)
- Stephens, R. B.**, A. M. Trowbridge, A. P. Ouimette, W. B. Knighton and E. A. Hobbie, P. C. Stoy, and R. J. Rowe. 2019. Signaling from below: rodents select for deeper fruiting truffles with stronger volatile emissions. 98th Annual Meeting of the American Society of Mammalogists, Washington, DC. (talk)
- Stephens, R. B.**, A. M. Trowbridge, A. P. Ouimette, W. B. Knighton and E. A. Hobbie, P. C. Stoy, and R. J. Rowe. 2019. Signaling from below: rodents select for deeper fruiting truffles with stronger volatile emissions. Northeast Natural History Conference, Springfield, MA. (talk)
- Stephens, R. B.**, and R. J. Rowe. 2018. Rodent–mycorrhizal dispersal networks and the underappreciated role of generalists. 98th Annual Meeting of the American Society of Mammalogists, Manhattan, KS (talk)
- Stephens, R. B.**, and R. J. Rowe. 2018. Rodent–mycorrhizal dispersal networks and the underappreciated role of generalists. Northeast Natural History Conference, Burlington, VT. (talk)
- Stephens, R. B.**, Erik A. Hobbie, and R. J. Rowe. 2017. Quantifying temporal and spatial variability in fungivory by eastern chipmunks (*Tamias stratus*). 85th Meeting of the Mycological Society of America, Athens, GA. (talk)
- Stephens, R. B.**, Erik A. Hobbie, and R. J. Rowe. 2017. Pulsed resource availability changes dietary niche breadth and partitioning between two generalist rodent consumers. 97th Annual Meeting of the American Society of Mammalogists, Moscow, ID. (talk)
- Stephens, R. B.**, T. J. Remick*, M. J. Ducey, and R. J. Rowe. 2016. Biomass and richness of truffle-producing fungi from field surveys and eastern chipmunk (*Tamias striatus*) scat. MassMyco Conference, Amherst, MA. (talk)
- Stephens, R. B.**, T. J. Remick*, M. J. Ducey, and R. J. Rowe. 2016. Richness and biomass of truffle-producing fungi in the northeastern US from field surveys and eastern chipmunk (*Tamias striatus*) scat. 84th Meeting of the Mycological Society of America, Berkeley, CA. (talk)
- Burke*, C. B., **R. B. Stephens**, N. Woodman, and R. J. Rowe. 2016. Skeletal injuries in small mammals: a multi species assessment of injury type and prevalence. 96th Annual Meeting of the American Society of Mammalogists, Minneapolis, MN. (poster)
- Stephens, R. B.** and R. J. Rowe. 2016. Quantifying variation in fungivory by eastern chipmunks (*Tamias striatus*). 96th Annual Meeting of the American Society of Mammalogists, Minneapolis, MN. (talk)
- Stephens, R. B.**, D. J. Hocking, M. Yamasaki, and R. J. Rowe. 2014. Impacts of forest structure and habitat type on small mammal communities in the White Mountain National Forest. 70th Annual Northeast Association of Fish & Wildlife Agencies Conference, Portland, ME. (poster)
- Stephens, R. B.** and E. M. Anderson. 2013. Habitat associations and assemblages of small mammals in natural plant communities of Wisconsin. 93rd Annual Meeting of the American Society of Mammalogists, Philadelphia, PA. (talk)
- Stephens, R. B.** and E. M. Anderson. 2012. Effects of trap type on small mammal richness and diversity. 92nd Annual Meeting of the American Society of Mammalogists, Reno, NV. (talk)
- Stephens, R. B.** and E. M. Anderson. 2012. Trap efficacy and mortality of Sherman and pitfall traps for Midwestern small mammals. The 2012 Wisconsin chapter of The Wildlife Society Winter Meeting, Rothschild, WI. (talk)
- Stephens, R. B.** and E. M. Anderson. 2011. Comparison of small mammal trap bias in Wisconsin. Joint meeting of the SE and SW chapters of the Wisconsin Society of American Forester and the Wisconsin chapter of The Wildlife Society, Wisconsin Dells, WI. (poster)
- Stephens, R. B.** and E. M. Anderson. 2010. Small mammal community and natural community association in Wisconsin. The 2010 Wisconsin chapter of The Wildlife Society Winter Meeting, Rothschild, WI. (poster)

- Stephens, R. B.** and N. Woodman. 2009. Differentiation of the Broad-clawed Shrews (Soricomorpha, Soricidae), *Cryptotis griseoventris* and *C. goodwini*, using skeletal morphology of the fore foot. 89th Annual Meeting of the American Society of Mammalogists, Fairbanks, AK (poster).
- Stephens, R. B.** and N. Woodman. 2008. Differentiation of broad-clawed shrews, *Cryptotis griseoventris* and *C. goodwini*, based on bone forefoot morphology. Research Training Program Presentation, Washington D.C. (poster and talk)

Other Presentations

- 2017 **Small mammals: the forest pollinators**
UNH Three Minute Thesis, Durham, NH (talk)
- 2016 **Chipmunks, truffles, and trees**
UNH Department of Natural Resources and the Environment Seminar Series, Durham, NH (talk)
- 2011 **GIS-based habitat models for small mammal species with information needs in Wisconsin: arctic shrew case study**
Chancellor Patterson's Inauguration ceremony, Stevens Point, Wisconsin (poster)
- 2010 **Small mammal and natural plant communities in Wisconsin**
UWSP Student Chapter of The Wildlife Society, Stevens Point, Wisconsin (talk)

GRANTS AND FELLOWSHIPS

Awarded (total funding - **\$224,397**)

- 2019 NIFA Postdoctoral Fellowship. Linking small mammals and mycorrhizal fungi to forest regeneration, **\$157,244**
- 2019 Mycological Society of America: Forest Fungal Ecology Postdoctoral Research Award, **\$1,250**
- 2019 American Society of Mammalogists: Early Career Travel Award, **\$750**
- 2018 American Society of Mammalogists: Student Travel Award, **\$400**
- 2018 University of New Hampshire: NRESS Student Support Fund, **\$500**
- 2017 University of New Hampshire: Dissertation Year Fellowship, **\$20,060**
- 2017 Mycological Society of America: Forest Fungal Ecology Research Award, **\$1,250**
- 2017 Mycological Society of America: Mentor Student Travel Award, **\$750**
- 2016 University of New Hampshire: NRESS Student Support Fund, **\$1,000**
- 2016 University of New Hampshire: Graduate School Travel Grant, **\$200**
- 2016 University of New Hampshire: Farrington Fund Travel Grant, **\$1,732**
- 2016 University of New Hampshire: Summer Teaching Assistant Fellowship, **\$3,150**
- 2015 University of New Hampshire: NRESS Student Support Fund, **\$1,000**
- 2015 American Society of Mammalogists: Grants in Aid of Research, **\$1,500**
- 2014 North American Truffling Society: Pavelek Memorial Scholarship, **\$1,500**
- 2014 University of New Hampshire: NRESS Student Support Fund, **\$1,000**
- 2014 University of New Hampshire: Farrington Fund Travel Grant, **\$450**
- 2011 University of Wisconsin – Stevens Point: Student Research Grant, **\$500**
- 2010 Wisconsin Department of Natural Resources, **\$25,211**
- 2010 Prairie Biotics Research Inc. Grant, **\$1,000**
- 2009 Undergraduate Research Initiative: University of Wisconsin Stevens Point, **\$1,550**
- 2009 Doug Stevens Wildlife Grant: University of Wisconsin Stevens Point, **\$2,400**

Not Awarded

- 2017 NSF Preliminary Proposal. Collaborative proposal: Interactions among mycorrhizal fungi, small mammals, and trees affect ecosystem functioning in a temperate forest
E. A. Hobbie, R. J. Rowe, A. P. Ouimette, T. R. Horton, **R. B. Stephens**, J. Craine, D. L. Phillips
- 2016 Northeastern States Research Cooperative. Small mammals, truffles, and trees: the importance of multitrophic biodiversity to ecological functioning, **\$61,297**
R. J. Rowe, E. A. Hobbie, A. P. Ouimette, **R. B. Stephens**
- 2015 Northeastern States Research Cooperative. Mycophagy and consumer competition: small mammals as ecosystem engineers of ectomycorrhizal fungal diversity, **\$92,306**
R. J. Rowe, E. A. Hobbie, T. R. Horton, **R. B. Stephens**
- 2015 NSF Doctoral Dissertation Improvement Grant Program. Multitrophic interactions and ecosystem function: small mammals as engineers of mycorrhizal fungal communities, **\$19,070**
R. B. Stephens, R.J. Rowe
- 2013 Northeastern States Research Cooperative. Impacts of forest management and biotic interactions on small mammal communities in the White Mountain National Forest, **\$103,344**
R. J. Rowe, M. Yamasaki, **R. B. Stephens**
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HONORS AND AWARDS

- 2017 Robert and Patricia Switzer Foundation - Finalist
- 2017 UNH Graduate Research Conference - Best NRESS PhD Oral Presentation
- 2017 University of New Hampshire Three Minute Thesis - Third Place
- 2016 Martha & Theodore Frizzell Scholarship
- 2014 70th Annual Northeast Association of Fish & Wildlife Agencies Conference - Best Student Poster Award
- 2012 Wisconsin Chapter of the Wildlife Society Graduate Student Aldo Leopold Memorial Scholarship
- 2012 Wisconsin Chapter of the Wildlife Society - Best Student Presentation Award
- 2012 Jack Massopust Memorial Scholarship
- 2012 College of Natural Resources Outstanding Graduate Research Student
- 2012 UWSP Outstanding Graduate Research Student
- 2012 UWSP Merit Scholarship
- 2009 Wisconsin Chapter of the Wildlife Society Undergraduate Student Aldo Leopold Memorial Scholarship
- 2009 Aldo Leopold Audubon Society Scholarship
- 2009 Arthur W. Mueller Jr. Scholarship
- 2009 Chancellor's Leadership Award
- 2009 White-Tails Unlimited Marshfield Chapter Scholarship
- 2008 Eric Munson Memorial Award
- 2008 White-Tails Unlimited Marshfield Chapter Scholarship
- 2007 Almond Bancroft Rod and Gun Club Scholarship
- 2006 Almond Bancroft Rod and Gun Club Scholarship
- 2005 Almond Bancroft Rod and Gun Club Scholarship
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MEMBERSHIPS IN PROFESSIONAL SOCIETIES

2016 - Present Mycological Society of America
 2014 - Present North American Truffling Society
 2011 - Present American Society of Mammalogists

TEACHING AND MENTORING EXPERIENCE

Graduate Teaching Assistant

2017 **Ornithology (ZOOL 542)** University of New Hampshire, Spring Semester
 Designed and taught labs

2016 **Studio Soils (NR 501)** University of New Hampshire, Fall Semester
 Taught soil labs, graded papers

2016 **Mammalogy (NR 712/812)** University of New Hampshire, Spring Semester
 Designed and taught labs

2015 **Studio Soils (NR 501)** University of New Hampshire, Fall Semester
 Taught soil labs, graded papers

2014 **Studio Soils (NR 501)** University of New Hampshire, Fall Semester
 Taught soil labs, graded papers

2012 **Ecological Basis for Natural Resources Management (NR151)** Associate lecturer position at University of Wisconsin Stevens Point, College of Natural Resources, Spring Semester
 Lectured, prepared tests, and graded papers

2011 **Mammalogy (Bio 378)** University of Wisconsin Stevens Point, Biology Department, Spring Semester, Specimen preparation labs and topical lectures

Guest Lectures

2016 - 2019 **Inventory and Monitoring of Ecological Communities (NR 740)**
 Co-lead module on techniques and methods for studying small mammals including study design considerations, live trapping demonstration, marking techniques, and study skin preparation; University of New Hampshire, Natural Resources and the Environment, Fall Semesters

2016 **Soil Ecology (NR 706)**
 Guest lecture on truffles and mycorrhizal fungi; University of New Hampshire, Natural Resources and the Environment, Fall Semester

Undergraduate Mentees

UNH Summer Undergraduate Research Fellowship (SURF), UNH Undergraduate Research Award (URA)

2018 - Present **Benjamin Wymer** - Habitat associations of small mammals and their impact on forest regeneration in northern New Hampshire (SURF)

2017 - 2019 **Corina Danielson** - Factors influencing seed selection by small mammals in New England forests (SURF)

2017 - 2018 **Samm Stein-Azen** - Linking rodents to our roots (SURF)

2015 - 2016 **Lilly Poland** - Missing digits in shrews: insights into a secret life (URA)

2014 - 2016 **Chris Burke** - Skeletal injuries in small mammals: a multi species assessment of injury type and prevalence (URA)

- 2014 - 2015 **Rebecca Graves** - Effects of age, density, and seasonality on molt pattern in the mammal genus *Peromyscus* (Honor's Thesis 2015)
- 2014 - 2015 **Jonny Nowick** - Do diets of woodland jumping mice and southern red-backed voles differ across forest types? (Senior Project)
- 2013 - 2015 **Marissa Cyr** - Effects of small mammal density on diet breadth (SURF)
- 2013 - 2015 **Tyler Remick** - Truffle abundance and mycophagy by small mammals in northern New England forests (SURF and Honor's Thesis 2015)
- 2012 - 2015 **Andrew Uccello** - Variation in truffle consumption by *Myodes gapperi* between managed and unmanaged forests in northern New Hampshire (Senior Project)
- 2011 - 2012 **Krishun Karau** - Effects of researcher experience and animal disposition on measurement variation in *Mus musculus* (Senior Project)
- 2010 - 2012 **Sara Wendt** - Distinguishing *Peromyscus leucopus noveboracensis* and *P. maniculatus gracilis* using external field measurements in Wisconsin (Senior Project)

Graduate Student Committees

2018 - Present **Nicholas Moore** (MS, University of New Hampshire)

2018 - Present **Sarah Cuprewich** (MS, Purdue University)

PROFESSIONAL SERVICE AND OUTREACH

Professional Service

- 2012 - Present **Referee/Reviewer**
American Midland Naturalist, Botany, Canadian Journal of Zoology, Ecological Applications, Journal of Mammalogy, Landscape Ecology, Mammal Research, Northeastern Naturalist, Oecologia, The Prairie Naturalist, Scientific Reports, Wildlife Society Bulletin & Zoologia
- 2017 - Present **Informatics committee member**
American Society of Mammalogists
- 2017 **Poster judge, UNH Graduate Research Conference**
University of New Hampshire, Durham, NH
- 2015 **Video posted to YouTube on how to repair bear damaged Sherman live traps**
<https://www.youtube.com/watch?v=awdX3g-xGKU>
- 2015 **One-day seminar on study skin preparation of mammals for Yale students**
Yale University, New Haven, CT
- 2011 **Two-day seminar on study skin preparation of bird and mammals for University of Wisconsin Parkside students and faculty**
University of Wisconsin Stevens Point, Stevens Point, WI

Museum Collaborations

Museum specimens document the occurrence of species in space and time and are used by ecologists, morphologists, and conservation biologists among others. Since 2006 I have deposited over 5,000 mammal specimens and hundreds of truffle specimens in museum collections across the United States. I have also arranged exchanges for museum specimens with no data to build teaching collections at UWSP and UNH. Below is a list of museums that I have deposited specimens in.

Mammal specimens

- Museum of Southwestern Biology, Albuquerque, NM

- University of Wisconsin – Stevens Point Museum of Natural History, Stevens Point, WI
- National Museum of Natural History, Smithsonian Institution, Washington, D.C.
- Yale Peabody Museum of Natural History, New Haven, CT
- Natural History Museum of Utah, Salt Lake City, UT
- Monte L. Bean Life Science Museum, Provo, UT
- Harvard Museum of Comparative Zoology, Cambridge, MA
- University of Alaska Museum, Fairbanks, AK
- Oakland Museum of California, Oakland, CA

Truffle specimens

- Oregon State University Mycological Collection, Corvallis, OR
- University of Florida Herbarium, Gainesville, FL
- National Fungal Collection, Smithsonian Institution, Washington, D.C.

Educational Outreach

- 2018 **Linking Rodents to Our Roots** – Co-developed an outdoor education program with an undergraduate student that illustrates the importance of rodents and fungi to forest health. In collaboration with White Pine Programs, York, ME.
- 2017 **Elementary school visit** – Hands on demonstration of mammals of North America using museum specimens as part of National Parks Day at Acton Elementary School. Acton, ME
- 2014 **Environmental Literacy Program (Hubbard Brook Research Foundation)** – Participated in a program that provides teachers from local schools with the resources and training to bring science from Hubbard Brook and Bartlett Experimental Forests into their science education efforts. I worked with a high school science teacher from North Conway (near my dissertation study site) on ways to bring results from my research into her classroom.
- 2009 - 2012 **Annual UWSP Collections Crawl** – Collection (mammalogy and ornithology) tours and demonstrations at the Museum of Natural History to the general public at the University of Wisconsin Stevens Point, Stevens Point, WI.

MEDIA

- 2019 **Small Mammals, Mycorrhizal Fungi, and Forest Regeneration** (Adaptive Silviculture for Climate Change website) <https://www.adaptivesilviculture.org/news/small-mammals-mycorrhizal-fungi-and-forest-regeneration>
- 2018 **Chipmunks and truffles - a recipe for a healthy forest** (Northern Woodland Magazine) <https://northernwoodlands.org/articles/article/chipmunks-truffles-healthy-forest>
- 2017 **5 new truffle species identified in New Hampshire** (Associated Press) <https://www.apnews.com/3daeddec946a42abbec1f2b75a962afe>
- 2016 **Moles, shrews, mice and more: researchers focus in on New Hampshire's many small mammals** (New Hampshire Wildlife Journal Magazine) <https://wildlife.state.nh.us/pubs/documents/samples/moles-shrews-mice.pdf>