

Madison M. Laughlin

School of Environmental and Forest Sciences
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University of Washington
Seattle, Washington 98195

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EDUCATION

- 2020 – present **M.S.**, Environmental and Forest Sciences, University of Washington
- 2014 – 2018 **B.A.**, Natural Resources (forestry emphasis) and Geology, Northland College – *summa cum laude*

ACADEMIC AND PROFESSIONAL EXPERIENCE

- 2019 – 2020 **Research Scientist**, University of Washington and Department of Natural Resources, Seattle, WA
- *Assess trends and status of forest structure restoration needs in eastern Washington*
- 2019 **Research Assistant**, the Harvey Lab, University of Washington, Seattle, WA
- *Collect data on post-fire forests in eastern and western Washington*
 - *Survey and stem map long term monitoring research sites in western Cascades*
- 2018 **Scientific Technician II**, the Washington Department of Natural Resources, Olympia, WA
- *Collect data for a research project studying the effects of wildfires on tree regeneration across different burn severities and forest types in eastern Washington*
- 2016 – 2018 **Research Assistant**, the Forestry and Wildlife Research Lab at Northland College, Ashland, WI
- *Research the spatial and geochemical patterns of lichen in super-canopy eastern white pines*
 - *Research arboreal wildlife activity in super-canopy eastern white pines*
 - *Other projects: small mammal trapping in the Apostle Islands National Lakeshore, purple loosestrife monitoring on the Chippewa Flowage*
- 2017 **Research Assistant**, the Genetics Lab at Northland College, Ashland, WI
- *Identify microsatellite regions and PCR recipes found in the literature for carnivore species of northern Wisconsin to be used for scat analysis in classes at Northland College in future years*

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VOLUNTEER EXPERIENCE

- 2017 – 2018 **Camera Traps in the Apostle Islands National Lakeshore**, Northland College and the National Park Service, Ashland, WI
- *Navigate to remote locations to deploy and maintain trail cameras (replace batteries and SD cards, position trail cameras, set up scent lures)*
- 2017 **American Kestrel Project**, Northland College, Ashland, WI
- *Check nest boxes for American Kestrel nestlings, identify age of nestlings, and assist in banding of nestlings*

CERTIFICATIONS

- Small Mammal Handling Training through University of Wisconsin, Madison (2017)
- Chainsaw Safety and Bucking Certification (2017)
- Wisconsin DNR Boat Certification (2017)
- Wildland Firefighting Certification, I-100, S-130, S-190, and L-180 (2016)
- Arboreal Climbing Safety Training (2016)

PUBLICATIONS

Laughlin, M.M., Martin, J.G., and Olson, E.R. 2020. Arboreal camera trapping reveals seasonal behaviors of *Peromyscus* spp in *Pinus Strobus* canopies. *The American Midland Naturalist* 183 (2): 210-222.

Laughlin, M.M., Martin, J.G., Liesch, P.J., and Olson, E.R. 2018. Dragonfly (Odonata: Corduliidae, Macromiidae, Gomphidae, Aeshnidae) and Damselfly (Odonata: Calopterygidae) exuviae observed at record heights in *Pinus strobus* and *Picea alba* canopies. *The Great Lakes Entomologist* 51 (1): 26-29.

Laughlin, M.M., Olson, E.R., and Martin, J.G. 2017. Arboreal camera trapping expands *Hyla versicolor* complex (Hylidae) canopy use to new heights. *Ecology* 98.8. DOI: 10.1002/ecy.1843

Laughlin, M.M., Hoff, H., Martin, J.G., and Olson, E.R. *In prep.* Arboreal activity of *Hyla versicolor* in *Pinus strobus* (eastern white pine) canopies: *for* Herpetological Review.

Martin, J.G., Karr, V., **Laughlin, M.M.**, and Olson, E.R. *In prep.* The problem with scaling big trees: Sensitivity and methodologies for measuring individual stems and reducing allometric errors: *for* Journal of Forestry.

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PRESENTATIONS

- Laughlin, M.M.** 2018. Lichen biogeochemical and spatial dynamics in canopies of Eastern white pine (*Pinus strobus*) in northern Wisconsin, USA. Poster presented at the Northland College Honors Day Poster Symposium, Ashland, WI.
- Laughlin, M.M.** 2018. Physical and chemical effects of invasive earthworms on soil profiles in the Chequamegon-Nicolet National Forest in northern Wisconsin, USA. Poster presented at the Northland College Honors Day Poster Symposium, Ashland, WI.
- Laughlin, M.M.,** Martin, J.G., and Olson, E.R. 2018. Arboreal camera trapping reveals arboreal behavior of *Hyla versicolor*, *Peromyscus leucopus*, and *Peromyscus maniculatus* in northern Wisconsin, USA. Poster session presented at the 78th Midwest Fish and Wildlife Conference, Milwaukee, Wisconsin.
- Laughlin, M.M.,** Martin, J.G., and Olson, E.R. 2017. Lichen biogeochemical and spatial dynamics in canopies of Eastern white pine (*Pinus strobus*). Poster session presented at the fall meeting of the American Geophysical Union, New Orleans, Louisiana.
- Laughlin, M.M.,** Martin, J.G., and Olson, E.R. 2017. Arboreal camera trap images provide insight into extent of canopy-use of *Hyla versicolor* (eastern gray tree frog) and *Peromyscus* spp. (deer mouse). Oral presentation at the Wildlife Society Conference, Milwaukee, Wisconsin.

AWARDS

- **James E. Meeker Award for Excellence in Natural Resources Research**, Northland College, May 2018
- **Northland College Natural Resources Merit Award**, Northland College, May 2018
- **Bruce Goetz Tools of the Trade Award in Geology**, Northland College, May 2018
- **Honorable Mention, Honors Day Poster Symposium**, Northland College, May 2018
- **Bruce Goetz Geosciences Award**, Northland College, May 2017

GRANT PROPOSALS

Northland College Parsonage Fund, 2015-2018, various capstone and research projects
\$1,894.98

Hughes Jeffords Chippewa Flowage Conservation Fund, 2017, Purple Loosestrife Monitoring on the Chippewa Flowage, **\$1,103.20.**

John C. Bock Foundation, 2017, the Habitat and Structure of Individual Large Tree Canopies in the Lake States, CoPI with Jonathan Martin and Erik Olson, **\$15,203.**