

Don C. Radcliffe

Ph.D. Candidate in Environmental and Forest Sciences | Harvey Fire and Disturbance Ecology Lab
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EDUCATION

- 2019 - **Ph.D.** - Environmental and Forest Sciences, 2019-2024 (Expected)
University of Washington
Dissertation: Ecological forest management of fuel and restoration treatments in dry forests of western North America
Adviser: Brian J. Harvey
- 2017 - 2019 **M.S.** - Environment and Natural Resources, Forest Science Specialization, 2017-2019
Ohio State University
Thesis: Topographic, edaphic, and stand structural factors associated with oak and hickory mortality and maple and beech regeneration in mature forests of Appalachian Ohio
Advisers: Stephen N. Matthews and David M. Hix
- 2010 - 2015 **B.S.** - Forest Science, Life Sciences Communication; Certificate in Environmental Studies
University of Wisconsin – Madison
Advisers: Craig G. Lorimer and Eric L. Kruger
- 2013 Study Abroad - New Zealand Conservation
Massey University

ACADEMIC PUBLICATIONS

- Radcliffe D.C.**, Bakker J.D., Churchill D.J., Alvarado E.C., Peterson D.W., Laughlin M.M., Harvey B.J. 2024. How are long-term stand structure, fuel profiles, and potential fire behavior affected by fuel treatment type and intensity in Interior Pacific Northwest forests?
- Radcliffe D.C.**, Hix D.M., Matthews S.N. 2021. “Predisposing factors’ effects on mortality of oak (*Quercus*) and hickory (*Carya*) species in mature forests undergoing mesophication in Appalachian Ohio.” *Forest Ecosystems*: 8:7.
- Radcliffe D.C.**, Matthews S.N., Hix D.M. 2020. “Beyond oak regeneration: modelling mesophytic sapling density drivers along topographic, edaphic, and stand-structural gradients in mature oak-dominated forests of Appalachian Ohio.” *Canadian Journal of Forest Research*: 50(11): 1215-1227.

INVITED BOOK CHAPTERS

- Radcliffe D.C.** 2018. “Millennial employees and rural places: a millennial forester’s thoughts about increasing young employee recruitment and retention in the National Forest System.” In: Wilent, S. (editor). *193 Million Acres: Towards a Healthier and More Resilient Forest Service*. Society of American Foresters, Bethesda, MD: 409-437 (invited book chapter).

GRANTS

- 2024 – 2026 Joint Fire Science Program: Fuel treatment longevity in the interior Pacific Northwest. (\$481K – contributor: primary writer and study designer. Will fund postdoctoral fellowship).
- 2022 - 2024 Joint Fire Science Program Graduate Innovation Award: Effects of fuel treatment configuration on avian diversity in western dry forests. (\$25K – co-PI, with adviser Brian Harvey)

ACADEMIC PRESENTATIONS

- Radcliffe D.C.**, Bakker J.D., Laughlin M.M., Alvarado E.C., Churchill D.J., Peterson D.W., Harvey B.J. 2023. “How are long-term stand structure, fuel profiles, and potential fire behavior affected by fuel treatment type and intensity in Interior Pacific Northwest forests?” *Association for Fire Ecology, 10th International Fire Ecology and Management Congress*, Monterey, California. Oral Presentation.
- Radcliffe D.C.**, Bakker J.D., Churchill D.J., Harvey B.J. 2023. “Long-term effects of common fuel treatments on fuel loads in Western US dry forests: knowledge gaps and research advances.” *Ecological Society of America Annual Meeting*, Portland, Oregon. Oral Presentation.
- Radcliffe D.C.**, Laughlin M.M., Bakker J.D., Alvarado E.C., Churchill D.J., Peterson D.W., Harvey B.J. 2021. “Long-term trajectories of fuels and stand structure in dry forests of central Washington.” *Association for Fire Ecology, 9th International Fire Ecology and Management Congress*. Oral Presentation (virtual).
- Radcliffe D.C.**, Laughlin M.M., Bakker J.D., Harvey B.J. 2020. “Long-term trajectories of fuel profiles among experimental restoration treatments in dry forests of the Eastern Cascades.” *Ecological Society of America Annual Meeting*. Oral Presentation (virtual).
- Radcliffe D.C.**, Matthews S.N., Hix D.M. 2019. “Effects of topography and soil on mesophytic sapling dynamics in mature oak-hardwood forests of southeast Ohio.” *Society of American Foresters National Convention*, Louisville, Kentucky. Oral Presentation.
- Radcliffe D.C.**, Hix D.M., Matthews, S.N. 2019. “Oak and hickory mortality patterns in mature low-disturbance forests of Appalachian Ohio” *Society of American Foresters National Convention*, Louisville, Kentucky. Oral Presentation.
- Radcliffe D.C.**, Matthews S.N., Hix D.M. 2018. “Implications of changing oak and maple dynamics for understanding stability of wildlife habitats in southeast Ohio.” *The Wildlife Society National Conference*, Cleveland, Ohio. Oral Presentation.
- Radcliffe D.C.**, Hix D.M., Matthews S.N. 2018. “Successional dynamics of oaks and maples in mature second-growth forests, varying by slope aspect in Ohio.” *Society of American Foresters, National Convention*, Portland, Oregon. Oral Presentation.
- Hix D.M., Matthews S.N., Goebel P.C., Palus J.D., Andrew E.E., **Radcliffe D.C.** 2018. “Quantifying change in hardwood forests across the Ecological Land Types of the Wayne National Forest.” *Central Hardwoods Forest Conference*, Bloomington, IN. Oral Presentation.
- Radcliffe D.C.**, Matthews S.N., Hix D.M. 2017. “Oak decline and maple increase includes favorable aspects.” *Society of American Foresters, National Convention*, Albuquerque, New Mexico. Poster presentation.

PROFESSIONAL PRESENTATIONS

- Radcliffe D.C.** 2023. “How long does this stuff work for? Fuel treatment longevity in dry forests of the Pacific Northwest. Malheur National Forest Monitoring and Research Symposium hosted by Blue Mountain Forest Partners. John Day, Oregon. Oral Presentation.
- Radcliffe D.C.** 2021. “Fuels treatment longevity in western dry forests: preliminary synthesis results and research needs.” Washington Cooperative Fish and Wildlife Research Unit Annual Student Symposium. Seattle, Washington. Oral Presentation (virtual).
- Radcliffe D.C.** 2021. “Fuels and restoration treatment longevity in dry forests the Western US: a review and synthesis.” Presentation to Washington Department of Natural Resources science staff. Seattle, Washington. Oral Presentation (virtual).
- Radcliffe D.C.** 2020. “How long do fuels reduction treatments reduce wildfire risk in dry forests? Long term experimental results from the East Cascades of Washington.” Washington Cooperative Fish and Wildlife Research Unit Annual Student Symposium. Seattle, Washington. Oral Presentation (virtual).
- Radcliffe D.C.** 2020. “Long term effects of thinning, burning, and thinning + burning on fuel loadings in East Cascades of Washington.” Graduate Student Symposium, University of Washington School of Environmental and Forest Sciences. Seattle, Washington. Oral Presentation.
- Radcliffe D.C.** 2019. “Changes in oak forests in southeast Ohio.” Kowlett Seminar Series for the plant pathology department at Ohio State University. Columbus, Ohio. Oral Presentation.

- Radcliffe D.C.**, Blake J., Schadegg R. 2017. "Ecological effects of salvage logging and public relations implications for forestry." Joint intern presentation to Society of American Foresters and The Wildlife Society national staffs. Bethesda, Maryland. Oral presentation.
- Selz, B., **Radcliffe D.C.**, 2015. "Final report of the UW-Madison forestry capstone project on the Kickapoo Valley Reserve." Presentation to the Kickapoo Valley Reserve staff and stakeholders. LaFarge, Wisconsin. Oral presentation.
- Radcliffe D.C.**, 2015. "My experiences and thoughts on working for the Forest Service." Presentation to the UW-Madison Student Chapter of the Society of American Foresters. Madison, Wisconsin. Oral presentation.

SELECTED JOURNALISTIC PUBLICATIONS

- Radcliffe D.C.** 2019. "To talk with young adults about forestry, try inspiring with the big picture." *The Forestry Source*, 24(9): 7, 23.
- Radcliffe D.C.** 2019. "Many Wisconsin oak stands are aging, potentially losing value from stem decay." Forest Data Network (online).
- Radcliffe D.C.** 2018. "Oak and ash veneer prices fall due to threat of tariffs, sugar maple veneer prices hold steady." Forest Data Network (online).
- Radcliffe D.C.** 2017. "Montana forest collaboration works to build trust." *The Forestry Source*, 22(4):1, 14-15.
- Radcliffe, D.C.** 2017. "Timber Innovation Act introduced (again), with bipartisan support." *The Forestry Source*, 22(5): 19.
- Radcliffe D.C.** 2017. "Baltimore aims for 40% tree canopy: a case study in urban forestry methods and an urban role for the US Forest Service." *The Forestry Source*, 22(6): 1, 6-7.
- Radcliffe D.C.** 2014. "Readying communities for rising seas." *In Common*, Spring/Summer 2014: 23.
- Radcliffe D.C.** 2014. "Early agriculture drove global climate change, research shows." Nelson Institute for Environmental Studies (online news).
- Radcliffe D.C.** 2014. "Swarm of discoveries: Wisconsin insect collection one of the best." Nelson Institute for Environmental Studies (online news).
- Radcliffe D.C.** 2014. "Tribal Youth Media Project yields movies that matter." Nelson Institute for Environmental Studies (online news).
- Radcliffe D.C.** 2014. "Monkeys may be future model for Ritalin-ADHD studies." *Daily Cardinal*, 123(64): 8.
- Radcliffe D.C.**, Spike J. 2013. "UW challenges invasive species paradigm." *Daily Cardinal* (online news).

TEACHING EXPERIENCE

- 2021-2022 Teaching Assistant (grading, lecturing, field trip logistics), Forest Ecology, University of Washington (62 students in two quarters, mixed graduate and undergraduate). Adjusted Combined Median Teaching Evaluation: 4.6/5.0

STUDENT MENTORSHIP AND SUPERVISION

- 2023 Supervised and mentored 2 recent graduates in fieldwork (Oregon)
- 2022 **Mark Elbrecht**, University of Washington SEFS Capstone Research Project
- 2020 - 2021 **Allison Phillips**, University of Washington SEFS Capstone Research Project
- 2020 Supervised and mentored 9 undergraduates or recent graduates in fieldwork (Washington)
- 2019 Supervised and mentored 6 undergraduates or recent graduates in fieldwork (Washington)
- 2018 Supervised and mentored 3 undergraduates or recent graduates in fieldwork (Ohio)
- 2017 Supervised and mentored 2 undergraduates or recent graduates in fieldwork (Ohio)

PROFESSIONAL EXPERIENCE

- 2017 Forest Policy Intern, Society of American Foresters; North Bethesda, Maryland
- 2016 Project Manager, Hoff Construction (general contractor); Mount Horeb, Wisconsin
- 2014 - 2015 Forestry Technician (silviculture, timber, botany, and fire), United States Forest Service; Eureka, Montana

2013 - 2014 Field Technician (whitetail deer mortality and gap-phase tree regeneration studies), Kruger Lab, University of Wisconsin – Madison; Winter, Wisconsin

SERVICE AND VOLUNTEER EXPERIENCE

2022 - 2023 Head organizer, University of Washington School of Environmental and Forest sciences graduate student retreat

2021 - present Member, Diversity Equity and Inclusion Committee, University of Washington School of Environmental and Forest Sciences; Seattle, Washington

2019 - present Manuscript reviewer, four manuscripts. Journals: *Ecosystems*, *Ecology*, *Ecosystems*, *Global Ecology and Biogeography*.

2019 - present Volunteer, University of Washington School of Environmental and Forest Sciences Christmas Tree Sale

2019 - 2023 Leader, Graduate Student Rock Climbing Group, University of Washington School of Environmental and Forest Sciences; Seattle, Washington

2019 - 2020 Officer, Graduate Student Council, University of Washington School of Environment and Forest Sciences; Seattle, Washington

2018 - 2019 President, Society for Ecology Restoration Ohio State University Chapter; Columbus, Ohio

2018 - 2019 Emcee, Ohio Ecology on Tap public outreach series; Columbus, Ohio.

2017 - 2018 Avian Fieldwork Volunteer, Ohio State University natural gas right of way corridor management project; Cadiz, Ohio

2017 Farm Volunteer, WWOOF Latin America; Cahuasqui, Ecuador

2014 - 2015 President, Society of American Foresters University of Wisconsin – Madison Student Chapter; Madison, Wisconsin

2014 Volunteer, US Fish and Wildlife Service common loon banding; Eureka, Montana

2012 - 2019 Volunteer, Habitat for Humanity (various locales)

2012 Rider, Bike & Build (Portsmouth, New Hampshire to Vancouver, British Columbia)

2011 - present Invasive species removal (various locales)

PROFESSIONAL AFFILIATIONS

Society of American Foresters, Ecological Society of America, Forest Stewards Guild, The Audubon Society, The Wildlife Society, Association for Fire Ecology

CERTIFICATIONS

OSHA 30 Safety for Construction Managers; 2016, Forest Service Chainsaw (B Faller); 2015, Forest Service Wildland Firefighter (Type 2); 2014, Trapper's Education (Wisconsin); 2006, Boater's Safety (Wisconsin); 2006, Hunter's Safety (Wisconsin); 2002

AWARDS

2023 UW School of Environmental and Forest Sciences Graduate Student of the Year

2019 University of Washington School of Environmental and Forest Sciences Fellowship

2019 University of Washington College of the Environment Topoff Award

2017 Ohio Agricultural Research and Development Fellowship

2015 Stone Forestry Scholarship Award

2015 Brian Howell Science Communication Scholarship Award

2014 Forest Service Spot Award (for conducting extensive rare plant survey work)

2014 Stone Forestry Scholarship Award

2013 Vicky Lee Hirsh Academic Merit Award; Fall 2013

2013 Lenore Landry Life Sciences Communication Scholarship Award

2013 Stone Forestry Scholarship Award

2012 Comstock Forestry Scholarship Award

2012 Robert Bjorklund Scholarship Award

2012 Stone Forestry Scholarship Award