Kristin H. Braziunas

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EDUCATION

2018-Present	Ph.D. , University of Wisconsin-Madison, Department of Integrative Biology (major), Quantitative Ecology and Modeling (minor) Dissertation: Operationalizing resilience of social-ecological systems to changing climate and fire in US Northern Rocky Mountain forests Phi Kappa Phi. Advisor: Dr. Monica G. Turner
2016-2018	M.S., University of Wisconsin-Madison, Department of Integrative Biology Thesis: Looking beyond the mean: Drivers of variability in postfire stand development of Rocky Mountain conifers Phi Kappa Phi. Advisor: Dr. Monica G. Turner
2004-2008	B.A. , Oberlin College, Environmental Studies (major), Philosophy (minor) Phi Beta Kappa, Sigma Xi. Advisor: Dr. John E. Petersen

ACADEMIC EXPERIENCE

2017-Present	Graduate Research Assistant, Integrative Biology, University of Wisconsin-Madison
2016-2017	Graduate Teaching Assistant, Integrative Biology, University of Wisconsin-Madison
2016	Research Specialist, Zoology, University of Wisconsin-Madison Project: Parameterizing the process-based model iLand for forests in Yellowstone
2007-8	Senior Operator, Living Machine, Environmental Studies, Oberlin College Project: <i>Measuring wastewater metabolism and nutrient concentrations</i>
2007	Tutor/Grader, Philosophy, Oberlin College. Courses tutored: Deductive Logic

PROFESSIONAL EXPERIENCE

2008-16	Promoted in 2013 (hired as Firefighter/EMT)
2014-15	Program Director, Cleveland Water Alliance, Cleveland, OH
2010-14	Assistant Director, The Oberlin Project, Oberlin, OH Promoted in 2011 (hired as Energy Policy Committee Fellow)
2008-11	Program Coordinator, Providing Oberlin With Efficiency Responsibly (POWER), Oberlin, OH

PUBLICATIONS

- **Braziunas, K. H.,** D. C. Abendroth, and M. G. Turner. Young forests and fire: Using LiDAR to explore relationships between fuels and fire severity in a subalpine forest reburn. (In prep)
- **Braziunas, K. H.,** R. Seidl, W. Rammer, and M. G. Turner. 2020. Can we manage a future with more fire? Effectiveness of defensible space treatment depends on housing amount and configuration. Landscape Ecology. https://doi.org/10.1007/s10980-020-01162-x
- Albrich, K., W. Rammer, M. G. Turner, Z. Ratajczak, **K. H. Braziunas**, W. D. Hansen, and R Seidl. 2020. Simulating forest resilience: a review. Global Ecology and Biogeography 29(12): 2082-2096.
- Turner, M. G., **K. H. Braziunas**, W. D. Hansen, and B. J. Harvey. 2019. Short-interval severe fire erodes the resilience of subalpine lodgepole pine forests. Proceedings of the National Academy of Sciences 116(23): 11319-11328.
- **Braziunas, K. H.,** W. D. Hansen, R. Seidl, W. Rammer, and M. G. Turner. 2018. Looking beyond the mean: Drivers of variability in postfire stand development of conifers in Greater Yellowstone. Forest Ecology and Management 430: 460-471.
- Hansen, W. D., **K. H. Braziunas**, W. Rammer, R. Seidl, and M. G. Turner. 2018. It takes a few to tango: Changing climate and fire regimes can cause regeneration failure of two subalpine conifers. Ecology 99(4): 966-977.

RESEARCH GRANTS AND FELLOWSHIPS

- 2020-Present "Less fuel for the fire: How will drought amplify effects of short-interval fire?", Joint Fire Science Program Graduate Research Innovation Award (\$25,000). Student PI.
- 2020-Present P.E.O. Ventura Neale Trust Endowed Scholar Award, International Chapter of the P.E.O. Competitive fellowship for women doctoral/medical students. (\$15,000)
- 2019-Present "Anticipating and Envisioning Future Landscapes of Greater Yellowstone", Camp Monaco Prize 2019, Prince Albert II of Monaco Foundation (\$100,000). Graduate student participant.
- 2018-2020 "Testing LiDAR for mapping canopy and surface fuels in Grand Teton National Park", National Park System Cooperative Research and Training Programs Grant, United States Department of the Interior (\$56,400). Student PI.
- 2016-17 Incoming Student Graduate Research Fellowship, Zoology, University of Wisconsin-Madison (\$20,000)
- 2008 Blank Fellowship, Environmental Studies, Oberlin College (\$3,000)

AWARDS AND HONORS

2019 Student Research Grants Competition, Graduate School, University of Wisconsin-Madison (\$1,200)

2019	Graduate Summer Research Award, Integrative Biology, University of Wisconsin-Madison (\$3,500)
2017	Phi Kappa Phi
2017	Honorable Mention, Graduate Research Fellowship Program, National Science Foundation
2016-18	John Jefferson Davis Travel Award, Zoology, University of Wisconsin-Madison (Received five times: \$3,000)
2010	Firefighter of the Year, Oberlin Fire Department
2009	Chill Out: Campus Solutions to Global Warming, National Wildlife Federation. Project: <i>Oberlin Light Bulb Brigade</i>
2008	Joyce Gorn Memorial Prize in Environmental Studies, Oberlin College
2008	Phi Beta Kappa
2008	Sigma Xi

INVITED TALKS

2019 "Western forests in an uncertain future: How will changing climate and increasing fire activity affect forested and human landscapes in the Greater Yellowstone Ecosystem?" Public Talk, Environmental Studies and Biology, Oberlin College.

CONTRIBUTED PRESENTATIONS (presenting author only)

- **Braziunas, K. H.**, D. Abendroth, and M. G. Turner. 2020. Young forests and fire: Using LiDAR to explore relationships between fuels and fire severity in a subalpine forest reburn. (Virtual ePoster presentation*). IALE-North America Annual Meeting, Virtual Remote Conference, May 10-14. *Originally oral presentation, format changed due to COVID19.
- **Braziunas, K. H.**, R. Seidl, W. Rammer, and M. G. Turner. 2019. Can we manage a future with more fire? Fuels treatments dampen increasing fire risk in the wildland urban interface. (Oral presentation). US-IALE Annual Meeting, Fort Collins, CO, April 7-11.
- **Braziunas, K. H.**, R. Seidl, W. Rammer, A. R. Rissman, and M. G. Turner. 2018. Can we manage a future with more fire? Effects of defensible space and spatial configuration on local and landscape-level fire severity. (Poster). Ecological Society of America Annual Meeting, New Orleans, LA, August 5-10.
- **Braziunas, K. H.**, W. D. Hansen, R. Seidl, W. Rammer, and M. G. Turner. 2018. Looking beyond the mean: Drivers of variability in postfire stand development of Rocky Mountain conifers. (Poster). US-IALE Annual Meeting, Chicago, IL, April 8-12.
- **Braziunas, K. H.**, W. D. Hansen, R. Seidl, W. Rammer, and M. G. Turner. 2017. Age alone is not enough: Multiple drivers control postfire stand development in Rocky Mountain conifers. (Oral presentation). Ecological Society of America Annual Meeting, Portland, OR, August 6-11.
- **Braziunas**, K. H., W. D. Hansen, R. Seidl, and M. G. Turner. 2017. Adapting the process-based model iLand to simulate subalpine forest dynamics in Greater Yellowstone. (Poster).

Wisconsin Ecology 20th Annual Spring Symposium, Madison, WI, April 4-5. (*Winner best content*)

Braziunas, K. H., W. D. Hansen, R. Seidl, and M. G. Turner. 2016. Adapting the process-based model iLand to simulate subalpine forest dynamics in Greater Yellowstone. (Poster). 13th Biennial Scientific Conference on the Greater Yellowstone Ecosystem, Grand Teton National Park, October 4-6.

Braziunas, K., J. E. Petersen, C. Frantz, and R. Shammin. 2008. Compact fluorescent light bulb exchange programs as a potentially cost effective and socially beneficial approach to offsetting carbon emissions locally. (Oral presentation). Association for the Advancement of Sustainability in Higher Education, Raleigh, NC, October 11.

TEACHING EXPERIENCE

Teaching Assistant

2016, 2017 Introductory Biology, University of Wisconsin-Madison (2 semesters)

Guest Lectures

2019 "Introduction to landscape ecology." Systems Ecology, Environmental Studies Program, Oberlin College.

2019 "Ecosystem modeling." Principles of Landscape Ecology, Forest and Wildlife Ecology, University of Wisconsin-Madison.

MENTORING

Graduate student mentorship

2019-2020 Zoology Introductions for New Grads (ZING) mentor for first-year MS/PhD students (Katherine Charton, PhD Student, University of Wisconsin-Madison)

Supervised undergraduate field and research assistants

2019-2020 Claire Finucane, University of Wisconsin-Madison

PROFESSIONAL CERTIFICATIONS

2015	Blue Card Incident Commander
2015	Fire Investigation Technician, International Association of Arson Investigators
2014	Fire Safety Inspector, Ohio Department of Public Safety
2013	Fire Officer I, Cuyahoga Community College
2012	Firefighter II, Ohio Department of Public Safety
2010	Firefighter I, Ohio Department of Public Safety
2010	Emergency Medical Technician-Basic, Ohio Department of Public Safety
2009	Volunteer Firefighter, Ohio Department of Public Safety

SERVICE AND APPOINTMENTS

2020-Present	Member, Racial Justice Task Force, Integrative Biology Graduate Student Organization, University of Wisconsin-Madison
2020-Present	Member, IALE-North America Equity, Inclusion, and Diversity Committee
2017-Present	Peer Reviewer: Conservation Letters, Ecology, Forest Ecology and Management, Forests, Global Environmental Change, Landscape Ecology, PLOS One, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society B: Biological Sciences
2014-Present	Steering Committee Member and Fellowship Subcommittee Chair, Oberlin Environmental Education Alumni Association, Oberlin College, Oberlin, OH
2020	Student Representative, IALE-North America Online Conference Organizing Committee, 2020 IALE-North America Annual Meeting
2019-2020	Graduate Student Representative, Polar/Arctic Ecosystems and Ecological Modeling Faculty Search Committee, University of Wisconsin-Madison
2018-2020	Graduate Student Representative, IALE-North America Executive Committee
2018-19	Nominations Committee, Phi Beta Kappa, University of Wisconsin-Madison
2016-17	Treasurer, Zoology Graduate Student Organization, University of Wisconsin-Madison
2009-16	Treasurer, Board of Directors, Bill Long Foundation, Oberlin, OH
2015	Vice Chair, Public Utilities Commission, City of Oberlin, OH
2014-15	Member, Northeast Ohio Regional Sewer District External Advisory Committee, Cleveland, OH
2013-15	Commissioner, Public Utilities Commission, City of Oberlin, OH
2012-15	Board member, Providing Oberlin With Efficiency Responsibly (POWER), Oberlin, OH

OTHER PROFESSIONAL ACTIVITIES AND TRAINING

2020-Present	"A call to action: Striving for racial justice in academic biology", 7-part webinar series, Society for the Advancement of Biology Education Research (SABER)
2020-Present	Invited member, Working Group on "Creating a unified approach to evaluate regime shift detection methods", Funded by Canadian Institute of Ecology and Evolution
2020	"LANDIS-II Training", 4-day virtual workshop, The Landis-II Foundation
2020	"Bystander Intervention: Stepping in With Care and Confidence", UW-Madison Office of Human Resources
2020	"Understanding Your Experiences and Identities", Foundational diversity and inclusion training, UW-Madison Office of Human Resources

2019	"Searching for Excellence and Diversity: Faculty Search Workshop", Women in Science & Engineering Leadership Institute (WISELI), UW-Madison
2019	"Geospatial Modeling with NASA Earth Observations using Google Earth Engine and R", Led by NASA DEVELOP, Workshop at US-IALE annual meeting in Fort Collins, CO
2018	"From Drone to Landscape – UAS Data Processing" Workshop, Led by Center for Geospatial Analytics, North Carolina State University, Workshop at US-IALE annual meeting in Chicago, IL
2018	"Basics of LiDAR Data Workshop", 2-day workshop, Wisconsin State Cartographer's Office, Held at UW-Milwaukee
2016	"Graduate Assistants' Equity Workshop", Division of Diversity, Equity, and Educational Achievement, UW-Madison
2016	National Ecological Observatory Network (NEON) Data Institute (6-day training on working with NEON and other spatio-temporal data), Boulder, CO

PROFESSIONAL MEMBERSHIPS

Ecological Society of America

North American Regional Association of the International Association for Landscape Ecology (IALE-North America)