Kristin H. Braziunas

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EDUCATION

2018-Present **Ph.D.**, University of Wisconsin-Madison, Department of Integrative Biology.
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: *Measuring wastewater metabolism and nutrient concentrations*

2007 Tutor/Grader, Philosophy, Oberlin College. Courses tutored: Deductive Logic

PROFESSIONAL EXPERIENCE

2008-16 Lieutenant/EMT, Oberlin Fire Department, Oberlin, OH
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., R. Seidl, W. Rammer, and M. G. Turner. Can we manage a future with more fire? Effectiveness of defensible space treatment depends on housing amount and configuration. Landscape Ecology. (In review)

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. 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-Present "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: *Oberlin Light Bulb Brigade*

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 (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, 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

2014-Present Steering Committee Member, 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	Invited member, Working Group on "Creating a unified approach to evaluate regime shift detection methods", Funded by Canadian Institute of Ecology and Evolution
2019	"Geospatial Modeling with NASA Earth Observations using Google Earth Engine and R", Led by NASA DEVELOP, Working 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
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)