

Caitlin McDonough MacKenzie

ecology, climate change, conservation & alpine communities

Education

Boston University 2017	PhD, Biology <i>Climate Change, Species Loss, and Spring Phenology in and Around Acadia National Park, Maine</i> Advisor: Richard Primack
University of Vermont 2010	MS, Field Naturalist & Ecological Planning Program <i>Collaboration at High Elevations: Monitoring Alpine Plant Phenology in the White Mountains with Citizen Scientists</i> Advisor: Jeffrey Hughes
Harvard University 2006	BA, Environmental Science & Public Policy Senior Thesis Advisor: David Foster

Professional Appointments

Colby College 2020-2022	Visiting Assistant Professor Environmental Studies
University of Maine 2017-2020	David H. Smith Conservation Fellow Postdoctoral Fellow Climate Change Institute
Emerson College 2014- 2017, 2019	Affiliated Faculty Institute for Liberal Arts & Interdisciplinary Studies

Publications

1. Ellwood, Elizabeth R., Amanda S. Gallinat, **Caitlin McDonough MacKenzie**, Tara Miller, Abraham J. Miller-Rushing, Caroline Polgar, and Richard B. Primack. 2022. Plant and bird phenology and plant occurrence from 1851 to 2020 (non-continuous) in Thoreau's Concord, Massachusetts. *Ecology*. <https://doi.org/10.1002/ecy.3646>
2. Nelson, Sarah, **Caitlin McDonough MacKenzie**, Toni Lyn Morelli, Jay Wason, Bryan Wentzell, Rachel Hovel, Glenn Hodgkins, Abe Miller-Rushing, David Miller, Steve Tatko, Amanda Cross, and Mike Pouch. 2022. Climate change in the mountains of Maine and the Northeast. *Northeastern Naturalist*. 28 (Special Issue 11):ii-xi. <https://doi.org/10.1656/045.028.s1111>
3. Liu, Yan, **Caitlin McDonough MacKenzie**, Richard B. Primack, Michael J. Hill, Xiaoyang Zhang,

- Zhuosen Wang, and Crystal B. Schaaf. 2021. Using remote sensing to monitor the spring phenology of Acadia National Park across elevational gradients. *Ecosphere*. 12, no. 12: e03888. <https://doi.org/10.1002/ecs2.3888>
4. Anderson, Sean C., Paul R Elsen, Brent B Hughes, Rebecca K Tonietto, Molly C Bletz, David A Gill, Meredith A Holgerson, Sara E Kuebbing, **Caitlin McDonough MacKenzie**, Mariah H Meek, Diogo Verissimo. 2021. Trends in ecology and conservation over eight decades. *Frontiers in Ecology and the Environment*. <https://doi.org/10.1002/fee.2320>
 5. Nocco, Mallika A., Bonnie M. McGill, **Caitlin McDonough MacKenzie**, Rebecca K. Tonietto, Joan Dudney, Molly C. Bletz, Talia Young, and Sara E. Kuebbing. 2021. Mentorship, equity, and research productivity: lessons from a pandemic. *Biological Conservation*. 255 (2021): 108966. <https://doi.org/10.1016/j.biocon.2021.108966>
 6. **McDonough MacKenzie, Caitlin**, Tony Chang, Mallika A. Nocco, Rebecca S. Barak, Molly C. Bletz, Sara E. Kuebbing, and Michael Dombeck. 2020. Recurrent neural network reveals overwhelming sentiment against 2017 review of US monuments from humans and bots. *Conservation Letters*. 13(6), p.e12747 <https://doi.org/10.1111/conl.12747>
 7. Burgio Kevin R, **Caitlin McDonough MacKenzie**, Stephanie B Borrelle, SK Morgan Ernest, Jacquelyn L Gill, Kurt E Ingeman, Amy Teffer, and Ethan P White. 2020. Ten Simple Rules for a successful remote postdoc. *PLoS Computational Biology*. 16(5): e1007809. <https://doi.org/10.1371/journal.pcbi.1007809>
 8. **McDonough MacKenzie, Caitlin**, Amanda S. Gallinat, and Lucy Zipf. 2020. Low-cost observations and experiments return a high value in plant phenology research. *Applications in Plant Sciences* 8(4): e11338 <http://doi:10.1002/aps3.11338>
 9. Berend, Kevin, Kristen Haynes, and **Caitlin McDonough MacKenzie**. 2019. Featured Review: Common garden experiments as a dynamic tool for ecological studies of alpine plants and communities in northeastern North America. *Rhodora*. 121(987): 174-212. <https://doi.org/10.3119/18-16> **WINNER OF THE 2020 FERNALD AWARD**
 10. **McDonough MacKenzie, Caitlin**, Jason Johnston, Abraham J. Miller-Rushing, William Sheehan, Robert Pinette, and Richard Primack. 2019. Advancing Leaf-Out and Flowering Phenology is Not Matched by Migratory Bird Arrivals Recorded in a Hunting Guide's Journal in Aroostook County, Maine. *Northeastern Naturalist*. 26(3), 561-579. <https://doi.org/10.1656/045.026.0309> **COVERED IN THE WASHINGTON POST: HOW A MID-20TH-CENTURY HUNTING GUIDE MAY FILL THE GAPS ON CLIMATE CHANGE IN MAINE**
 11. Heberling, Mason, **Caitlin McDonough MacKenzie**, Jason Fridley, Susan Kalisz, and Richard Primack. 2019. Phenological mismatch with trees reduces wildflower carbon budgets. *Ecology Letters*. 22(4): 616-623 <https://doi.org/10.1111/ele.13224> **WINNER OF THE 2020 MERCER AWARD**
 12. **McDonough MacKenzie, Caitlin**, Glen Mittelhauser, Abraham J. Miller-Rushing, and Richard B. Primack. 2019. Featured Review: Floristic change in New England and New York: regional patterns of plant species loss and decline. *Rhodora*. 121(985): 1-36. <https://doi.org/10.3119/18-04>
 13. **McDonough MacKenzie, Caitlin**, Richard B. Primack, and Abraham J. Miller-Rushing. 2019. Trails-as-transects: phenology monitoring across heterogenous microclimates in Acadia National Park, Maine. *Ecosphere*. <https://doi.org/10.1002/ecs2.2626>
 14. **McDonough MacKenzie, Caitlin**, Richard Primack, and Abraham Miller-Rushing. 2018. Local environment, not local adaptation, drives leaf-out phenology in common gardens along an elevational

gradient in Acadia National Park, Maine. *American Journal of Botany*. 105(6): 986–995.
<https://doi.org/10.1002/ajb2.1108>

15. **McDonough MacKenzie, Caitlin**, Georgia Murray, Richard Primack, and Doug Weihrauch. 2017. Lessons from Citizen Science: Assessing volunteer-collected plant phenology data with Mountain Watch. *Biological Conservation*. 208: 121-126. <http://dx.doi.org/10.1016/j.biocon.2016.07.027>

Published Reports & Commentaries

1. **McDonough MacKenzie, Caitlin**, Rebecca Barak, Skylar Bayer, Molly Bletz, Mark Brunson, Joan Dudney, Orou Gaoue, Jacquelyn Gill, April Harris, Sara Kuebbing, Bonnie McGill, Mallika Nocco, Rebecca Tonietto, Megan Vahsen, and Elizabeth Waring. 2020. Plant Love Stories: Share your story and grow a movement. *Bulletin of the Ecological Society of America*. 101(2), p.e01663.
<https://doi.org/10.1002/bes2.1663>
2. **McDonough MacKenzie, Caitlin**, Sara Kuebbing, Rebecca S. Barak, Molly Bletz, Joan Dudney, Bonnie M. McGill, Mallika A. Nocco, Talia Young, Rebecca K. Tonietto. 2019. We do not want to “cure plant blindness” we want to grow plant love. *Plants People Planet*.
<https://doi.org/10.1002/ppp3.10062>

Teaching & Mentoring

Colby College

Visiting Assistant Professor

Courses 2021-2022

BI 271 Intro to Ecology Lecture: 45 students
 BI 271 Intro to Ecology Lab: 16 students
 ES 297 Knitting & Reading the Forested Landscape: 12 students
 ES 327 Conservation Paleobiology: 13 students
 ES 120 Ecology & Natural History in Maine: Thoreau to Carson, a writing-intensive freshmen class: 12 students

Courses 2020-2021

BI 271 Intro to Ecology Lecture: 45 students
 BI 271 Intro to Ecology Lab: 16 students
 ES 338 Forest Ecology: 9 students
 ES 398 Conservation Paleobiology: 6 students
Teaching & Learning at Colby Fellowship

Honors Thesis Committee Member

Grace Neumiller Class of 2021, Environmental Studies
 Title: Contrasting Patterns of Nutrient Limitation in the Littoral and Pelagic Zones of Mesotrophic Maine Lakes
Taryn Waite Class of 2021, Environmental Studies
 Title: Storm Characteristics Affect Biogeochemical Responses Differently Across

Lentic and Lotic Areas in a Large River

Grace Horne Class of 2021, Biology

Title: Reduced performance of ash-specialist caterpillars on non-native, cultivated Oleaceous plants

University of Maine

Instructor of Record

Graduate Committee Member

Andrea Tirrell M.S. student defending Fall 2022, Ecology and Environmental Science Master's Thesis: A Sky Island Perspective: New England Alpine Plant Distributions and Adaptations Under Climate Change

Undergraduate Capstone Advisor

Maddie Eberly Class of 2021, Forestry

Title: Conservation Paleoecology

Madison Syer Class of 2020, Parks, Recreation and Tourism

Title: Paleobiological Perspectives on Subalpine Vegetation in Acadia National Park

Cas Carroll Class of 2019, Ecology and Environmental Science

Title: Conservation Paleobiology at Sargent Mountain Pond: Macrofossil Analysis of Holocene Treeline Position in Acadia National Park

Honors Thesis Committee Member

Marie Ring Class of 2018, Biology

Title: Examining Avian Diversity in Acadia National Park Through Time

Emerson College

Affiliated Faculty

Fall 2019

SC 223 Climate Change: 1 Section, 34 students

Spring 2016 & 2017

SC 292 New England Forests: 2 Sections, 70 students

Spring 2014 & Fall 2014

SC 223 Climate Change: 2 Sections, 61 students

SC 223 Climate Change: 1 Section, 25 students

Boston University
Teaching Assistant

Fall 2011 & 2012

BI 107 Biology 1 Lab Instructor: 2 Sections, 32 students

University of Vermont
Teaching Assistant

Spring 2010 & 2009

NR 140 Applied Environmental Statistics, Lab Instructor

Fall 2009

NR 205 Ecosystem Management: Integrating Science, Society & Policy, Discussion
Section Leader

Fall 2008

NR 001 Natural History and Field Ecology, Field Lab Instructor

Grants & Funding

**Second Century
Stewardship Fellowship**
2019-2020

Conservation Paleobiology and Traditional Ecological
Knowledge of Subalpine Plant Communities in Acadia National
Park.
PI
TOTAL BUDGET: \$20,000

**David H. Smith
Conservation Research
Postdoctoral Fellowship**
2017-2019

Conservation Challenges for Tundra Refugia under Climate Change:
A Paleoecological Perspective on Subalpine and Alpine Vegetation in
Maine.
PI with Mentors Jacquelyn Gill (University of Maine) & Abe Miller-
Rushing (Acadia National Park)
TOTAL BUDGET: \$150,000

**Schoodic Research
Fellowship**
2016

Patterns of Species Loss and Spring Phenology in Acadia National
Park, Maine.
PI
TOTAL BUDGET: \$2,500

**NSF-DEB Doctoral
Dissertation Improvement
Grant (DDIG) 1501266**
2015-2017

Plant Ecology in a Changing Climate: Patterns of Species Loss and
Spring Phenology in Acadia National Park, Maine.
Co-PI with Richard Primack (Boston University)
TOTAL BUDGET: \$12,818

Waterman Fund Grant 2015	Ridges in a Warming Climate: Monitoring Plant Phenology in Acadia National Park. PI TOTAL BUDGET: \$1,800
National Park Service Cooperative Agreement 2013-2014	Identify Species Vulnerable to Climate Change at Acadia National Park. Graduate Student & Grant Co-author under PI Richard Primack (Boston University) TOTAL BUDGET: \$189,000
George Melendez Wright Climate Change Fellowship 2011	Reconstructing past plant phenology in Acadia National Park: tracking climate change through herbarium specimens, written records, and historic photographs. PI TOTAL BUDGET: \$12,000

Awards & Honors

2022	Young Alumni Award, Bancroft High School
2020	George Mercer Award, Ecological Society of America Merritt Fernald Award, New England Botanical Society
2017	Best Talk, Acadia Science Symposium, College of the Atlantic Best Talk, BU Biology Grad Student Association Research Symposium
2016	PLOS Ecology ESA Annual Meeting Reporting Fellow
2014	Boston University Women's Guild Scholarship Graduate Student Research Award, New England Botanical Society
2013	Graduate Student Policy Award, Ecological Society of America Science Café runner up, Ecological Society of America
2012	Bechtel Grant Travel Award, Schoodic Institute Phenology 2012 Travel Scholarship

- 2010 Graduate Student Research Award for Outstanding Scholarship, Rubenstein School of Natural Resources, University of Vermont
- 2006 Cum Laude, Honors Thesis, Harvard University

Presentations

Invited Talks

- 2022 Bancroft High School, Worcester, MA
Babson College, webinar
- 2021 Gulf of Maine Research Institute Findings from the Field Community Series on Phenology and Climate Change, webinar for middle school students
Merryspring Nature Center, webinar
Baxter State Park Research Committee Meeting, webinar
California Polytechnic State University, webinar
College of the Holy Cross, webinar
Mount Desert Island Science Café Online
SUNY Oswego's Rice Creek Field Station's Arbor Day Web Conference
- 2020 North Carolina Botanical Garden webinar
Tower Hill Botanic Garden webinar
Mount Desert Island Historical Society webinar
Maine Mountain Collaborative webinar
Saint Anselm College, Manchester, NH
Colby College, Waterville, ME
Climate Change Institute Lecture Series, University of Maine, Orono, ME
- 2019 New England Botanical Club, Harvard University, Cambridge MA
Pint of Science, Trident Booksellers, Boston, MA
College of the Atlantic, Human Ecology Forum, Bar Harbor, ME
New England Botanical Club, Harvard University, Cambridge, MA
- 2018 Worcester Garden Club at Broad Meadow Brook Mass Audubon Sanctuary
Merryspring Nature Center, Camden, ME
Signs of the Seasons, UMaine Cooperative Extension webinar
Acadia National Park, Bar Harbor, ME
Baxter State Park Research Committee Meeting, Augusta ME

- 2017 School of Biology and Ecology, University of Maine, Orono, ME
Harvard University School of Design (at Acadia National Park), Mount Desert Island, ME
Signs of the Seasons, UMaine Cooperative Extension webinar
- 2016 Great Summer Adventure, MDI Historical Society, Bar Harbor, ME
Mass Audubon Wachusett Meadow Lecture Series, Princeton, MA
College of the Atlantic, Bar Harbor, ME
- 2015 Ellsworth Garden Club, Ellsworth, ME
- 2014 Coffee & Conversations Series, College of the Atlantic, Bar Harbor, ME
- 2013 Community Lecture Series, Eagle Hill Institute, Steuben, ME
Colby College (at Schoodic Institute), Winter Harbor, ME
- 2011 Josselyn Botanical Society Meeting at Schoodic Institute, Winter Harbor, ME

Symposia

- 2021 Early Career Fellows and Mercer Award Symposium, Ecological Society of America (virtual)
- 2020 Virtual Symposium on Climate Change in Maine's Mountains
- 2019 Inclusion is an Imperative in U.S. National Parks Inspire Session, Ecological Society of America, Louisville, KY
Dynamics and Demography of Alpine Islands Colloquia, Botany 2019, Botanical Society of America annual conference, Tucson, AZ
- 2015 Northeast Alpine Stewardship Gathering, Millinocket, ME
- 2010 New England Regional Phenology Network Meeting, Durham, NH

Contributed Talks

- 2021 Botany 2021 (virtual)

- 2020 Ecological Society of America (virtual)
North American Congress for Conservation Biology (virtual)
Botany 2020 (virtual)
- 2019 Ecological Society of America, Louisville, KY
- 2018 North American Congress for Conservation Biology, Toronto, Ontario
Borns Symposium, Climate Change Institute, University of Maine, Orono,
ME Northeast Natural History Conference, Burlington, VT
- 2017 Acadia Science Symposium, College of the Atlantic, Bar Harbor, ME
BU Biology Grad Student Association Research Symposium, Boston, MA
- 2016 New England Regional Phenology Network Meeting, Crawford Notch, NH
- 2015 Ecological Society of America, Baltimore, MD
- 2014 American Society of Naturalists Meeting, Pacific Grove, CA
- 2012 Phenology 2012, University of Wisconsin-Milwaukee, WI
National Park Service Climate Change Webinar Series
- 2010 Ecological Society of America, Pittsburgh, PA (last minute stand-in for Doug Weihrauch)
- 2009 Graduate Research Symposium, University of Vermont, Burlington, VT

Posters

- 2018 Northeast Alpine Stewardship Gathering, Fairlee, VT
- 2016 Ecological Society of America, Fort Lauderdale, FL
- 2015 Acadia Science Symposium, Winter Harbor, ME
Northeast Natural History Conference, Springfield, MA
Boston University Graduate Research Symposium, Boston, MA

- 2014 Acadia Science Symposium, Winter Harbor, ME
 Rescheduled 2013 Acadia Science Symposium, Winter Harbor, ME (held in April 2014 due to October 2013 government shutdown)
 Northeast Natural History Conference, Springfield, MA
- 2013 Ecological Society of America, Minneapolis, MN
- 2012 Acadia Science Symposium, Winter Harbor, ME
 Ecological Society of America, Portland, OR
 Public Participation in Scientific Research Workshop, Portland, OR
- 2010 Ecological Society of America, Pittsburgh, PA

Science Communication

Plant Love Stories
www.plantlovestories.com
 Co-founder

Organizer Plant Love Stories Inspire Session at the Ecological Society of America annual meeting in Louisville, KY, August 2019

2018-

Co-Lead Author We do not want to “cure plant blindness” we want to grow plant love. 2019. Letter to the Editor in *Plants People Planet*. <https://doi.org/10.1002/ppp3.10062>

Speaker SUNY Oswego’s Rice Creek Field Station Arbor Day Web Conference, April 2021

Speaker Plant Love Stories live story-telling event in conjunction with the North American Congress for Conservation Biology in Toronto, July 2018
<https://www.plantlovestories.com/post/low-elevation-alpine-love-live>

Contributor Low Elevation Alpine Love, February 28, 2018
<https://www.plantlovestories.com/post/low-elevation-alpine-love>

PLoS Ecology Blog
 Community Editor
 2017-2019

Blogger Reporting on recent scientific research in conservation, plant ecology, and climate change through interviews, book reviews, and new research summaries.
 The complete collection of my PLoS writing (49 posts):
<http://www.cmmackenzie.com/ecology>

TEDx Talk

2017

“Botanizing with my 19th Century Girlfriend”

TEDx Piscataqua River, Portsmouth, NH

<https://www.youtube.com/watch?v=02JG9hpitHk&t=112s>**Outreach in Acadia National Park****Partner Scientist with Park Interpreters****iSwoop**

2017-2020

Interpreters and Scientists Working On Our Parks (iSWOOP), a National Science Foundation-funded model to build visitors’ understanding of science at National Parks

Writing**Bangor Daily News**

2017

McDonough MacKenzie, Caitlin. National Parks Belong to All Americans. They Should Remain Accessible to All. Op-ed in the *Bangor Daily News*. December 19, 2017.

<http://bangordailynews.com/2017/12/19/opinion/contributors/national-parks-belong-to-americans-they-should-remain-accessible-to-all/>

**The Magazine of the
Mount Desert Island
Historical Society**

2015

McDonough MacKenzie, Caitlin. 2015. The Changing Flora of Mount Desert Island. *Chebacco, the Magazine of the Mount Desert Island Historical Society*. 16: 126-138.

***Friends of Acadia
Journal***

2012

McDonough MacKenzie, Caitlin. 2012. Two Weeks: Tracking the Spring Bloom in Acadia. *Friends of Acadia Journal*. 17.2: 9-11.

Museum Co-Curator**Somesville Museum**

2016

“Before Acadia: Adventure & Discovery” at the Mount Desert Island Historical Society Somesville Museum, Somesville, ME

Naturalist’s Notebook

2014

“Botanizing in Acadia” at the Naturalist’s Notebook in Northeast Harbor, ME

Service

**Flora Conservanda: New England Plant
Conservation Program (NEPCoP)**

2022

Plants & Climate Migration Subcommittee
Member

Tower Hill Botanic Garden
 Boylston, MA
 2020-2021

Strategic Planning Committee Member

David H. Smith Fellowship
 2020

20th Anniversary Organizing Committee Member

Cambridge Urban Forest Master Plan Task Force
 Cambridge, MA
 2018-2019

Task Force Member

Plants of Baxter State Park
 2012-2015

Field Assistant, Photographer
 Mittelhauser, Glen, Jensen Bissell, Don Cameron, Alison C. Dibble, Arthur Haines, Jean Hoekwater, Marilee Lovit, and Aaron Megquier. *Plants of Baxter State Park*. Orono, Maine: University of Maine Press. 2016. 477 pages.

Manuscript Reviewer

Biological Conservation, Global Change Biology, Northeastern Naturalist, Ecosystems, Basic and Applied Ecology, International Journal of Plant Science, Ecology Letters, New Phytologist, Conservation Science and Practice, Frontiers in Ecology and the Environment, Rhodora, Current Biology, PLoS One, Quaternary Research, Ecological Monographs, Ecosphere, Plant Biology, Ecological Solutions and Evidence, Agricultural and Forest Meteorology

Society Membership & Leadership

New England Botanical Society

Council Member (2020-)
 Graduate Student Award Committee Chair (2020-)
 Diversity, Equity & Inclusion Committee Member (2021-)
 Mission Statement Committee Member (2019-2020)

Ecological Society of America

Paleoecology Section Chair (2019-2020)
 Inclusive Ecology Section Executive Board Member (2017-)
 SEEDS Mentor (2016, 2020)

**Society for
Conservation Biology**

Botanical Society of America

Boston University Graduate Women in Science and Engineering Board Member (2014-2015)

Organizing For Conference

Symposium on Climate Change in Maine's Mountains
October 2020

Symposium Co-Organizer

Session Co-Chair Alpine Habitat and Management

Co-Editor Special Issue of *Northeastern Naturalist* on Climate Change in Maine's Mountains (Summer 2021)
<https://www.eaglehill.us/NENAonline/TOCs/nena-v28-sp11-2021.shtml>

Ecological Society of America Annual Meeting
Louisville, KY
August 2019

Inspire Session Organizer Plant Love Stories

Workshop Co-Organizer Including Citizen Science in Your Research - Working with Citizen Science Data, Volunteers, and More

Workshop Co-Organizer #MeToo In the Sciences: Your Rights and Options When You're Being Harassed Because Of Your Race, Gender, Religion, Or Disability Status

David H. Smith Conservation Research Fellowship Retreat
Schoodic Institute, Winter Harbor, ME
May 2018

Host Fellow

Organizer And Panel Moderator Conservation in the Pine Tree State: challenges and success stories of collaborations across communities, agencies, and NGOs

Workshops & Professional Development

(* = invited participant)

Allen Island Writing Retreat*

Colby College, Allen Island, ME May 2022, three-day writing retreat with workshops "Sustaining a research pipeline at any point in your career" and "How to find your rhythm after COVID" led by Kelly Clancy.

TREETIME: Terrestrial Responses To Emerging Environments Through Time, Integrated From Moments To Eons*

Morton Arboretum, Lisle, IL May 2021 (virtual), two-day research design workshop to kick off writing an NSF Biology Integration Institute (BII) led by Morton Arboretum focused on plant phenology research.

Colby Bowdoin Bates Course Design Experience*

Colby College, Waterville, ME, January 2021 (virtual), three-day workshop focused on developing transformational learning outcomes, assessing student learning, and pedagogical strategies for building inclusive learning communities.

Colby Bowdoin Bates May Institute: Reflecting on our Remote Past*

Colby College, Waterville, ME, May 2020 (virtual), three-day event fostering connections with colleagues to engage in dialogue, reflection, and planning sessions focused on learning from our pivot to emergency remote teaching this spring.

Teaching and Learning in the Context of Emerson's Diverse Student Community Emerson College, Boston, MA, November 2019, two-hour workshop for faculty, staff, and affiliated faculty with Dr. Tuseda Roberts, Emerson's Director for Faculty Development and Diversity.

Designing Equitable Community-engaged Research Projects*

Kilauea Military Camp, Volcanoes National Park, HI October 2019, half-day workshop for Smith Fellows with Megan Heyza, Executive Director of the Eastside Improvement Association of Flint and Dr. Rebecca Tonietto, Assistant Professor at the University of Michigan-Flint.

Diversity, Equity, Inclusion, and Justice Workshop*

Kilauea Military Camp, Volcanoes National Park, HI October 2019, two-day workshop for Smith Fellows with Anee Korme, The Raben Group.

American Institute of Biological Sciences Congressional District Visits

September 2019 meetings: Representative Jared Golden's staff (ME 2nd district) & Representative Katherine Clark's staff (MA 5th district)

Second Century Stewardship Communications Workshop*

Schoodic Institute at Acadia National Park, Winter Harbor, Maine, July 2019, two and a half day program for Second Century Stewardship Fellows to develop communication skills by creating and implementing individual communication plans, with workshops on storytelling, improv, and social media, and a panel with local members of the media.

Graduate Teaching Academy*

University of Maine, Center for Innovative Teaching and Learning, Orono, ME, Spring 2019, semester-long series of workshops to help graduate students and postdocs develop skills related to undergraduate teaching and transfer those abilities beyond the classroom.

Facilitation Training*

Santa Barbara, CA January 2019, two-day workshop for Smith Fellows with Julian Griggs (Dovetail Consulting).

Survey Research Methods: Sampling and Questionnaire Design

North American Congress for Conservation Biology in Toronto, Ontario July 2018, one-day workshop on quantitative survey sampling design and questionnaires, instrument design, and best practices with Dr. Kenneth E. Wallen and Dr. Ashley A. Dayer.

Business Management Principles for Conservation Research and NGOs*

Schoodic Institute, Winter Harbor, ME May 2018, one-day introduction to applying business management principles to conservation science research and NGOs with Dr. Michael Dombeck and Dr. Brett Dickson (Conservation Science Partners).

ARGON Augmenting Research Grounded On Neon*

Utah State University, Logan, UT March 2018, three-day workshop on big data and biogeographical patterns of ecological traits, species abundance distributions, and community composition.

Wilderness First Responder

Harvard University, Cambridge, MA January 2018, week-long wilderness medicine course. Recertified January 2021. (Previously WFR certified 2003-2006, 2007-2016)

Media Training Workshop*

Annapolis, MD January 2018, two-day workshop for Smith Fellows with Tim Ward and Teresa Erickson, Intermedia Communications Training.

Diversity, Equity, Inclusion, and Justice Workshop*

Leopold Center, WI October 2017, one-day workshop for Smith Fellows with Whitney Tome, The Raben Group.

Storytelling Workshop*

Leopold Center, WI October 2017, three-day workshop for Smith Fellows with Tim Ward and Teresa Erickson, Intermedia Communications Training.

Field Course Design Workshop

Ecological Society of America meeting, Portland, OR August 2017, one-day workshop and facilitated working session with Dr. Angie Moline, founder of Educate Wild!

DCSI Drilling and Coring Summer Institute*

University of Minnesota, Minneapolis, MN June-July 2017, comprehensive two-week hands-on training course with Dr. Amy Myrbo Research Associate and Director of Outreach, Diversity, and Education at the National Lacustrine Core Facility.

PACE Paleo And Community Ecology Pace Workshop*

Schoodic Education & Research Center, Winter Harbor, ME May 2017, week-long NSF-funded workshop with Dr. Jacquelyn Gill & Dr. Jack Williams.

The Op-ed Project*

Timberline Lodge, OR, April 2017, one-day workshop for Smith Fellows.

ComSciCon: The Communicating Science Workshop for Graduate Students*

Cambridge, MA, June 2015, three-day professional development experience in science communication for graduate students in STEM

American Institute of Biological Sciences Congressional District Visits

September 2014 meeting: Representative Katherine Clark's staff (MA 5th district).

Biological Ecological Sciences Coalition Congressional Visits Day*

Washington, DC, April 2013, training in policy engagement & meetings with Massachusetts Congressional Delegation and staffers as a part of the ESA Graduate Student Policy Award

Work Experience

The Nature Conservancy 2007

Field Research Assistant
Ellsworth Creek, WA

Sierra Club 2007

Environmental Policy Intern
Chicago, IL

Appalachian Mountain Club 2003-2006

Hut Naturalist
Zealand Falls Hut Summers 2003, 2005, Greenleaf Hut Fall 2006
White Mountains, NH

EcoTarium Museum of Science and Nature 2002

Summer Staff
Worcester, MA

Singing Eagle Lodge Girls' Summer Camp 2001-

Board Member 2014-2016
Hiking Trip Leader
Soccer Counselor
Holderness, NH