

# Aimée T. Classen

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## CURRENT POSITIONS

**Director** of the University of Michigan Biological Station, **Professor**, Department of Ecology and Evolutionary Biology, The University of Michigan, Ann Arbor, MI, 2020-present

### Key responsibilities

- Direct a research and educational field campus that services researchers and students from around the world; the largest campus in the University of Michigan System (>13,000 acres)
- Develop the research, education and community engagement mission
- Responsible for strategic and administrative decision making for a unit that services the largest University of Michigan college as well as students and faculty from > 8 other UM colleges
- Coordinate a community of > 500 people, ~15,000 user days a year (excluding the public)
- Administer a budget of ~\$3M/yr
- Oversee >140 buildings and their facilities as well as research infrastructure
- Direct a staff of 14 year-round and > 60 from May-August
- Serve as part of the College Chairs & Directors committee

### Major accomplishments to date

- Executed a self-study, as well as an external review, 2023
- Developed a strategic plan, the first in organizational history, 2024
- Created an advisory board of cross-campus University leaders, 2023
- Secured > \$10M from the University Regents, Provost and college of Literature, Sciences and the Arts (LSA) to update campus infrastructure and take the campus carbon neutral
- Developed a Diversity, Equity and Inclusion and a field safety strategy as part of our operations
- Increased the diversity of faculty, researchers and students
- Developed a facilities and campus plan with a focus on inclusion
- Increased communications to increase transparency. Written news stories increased 570% last year; instituted a monthly newsletter
- Created strategy that increased planned giving and total gifts by 13% in its first year
- Developed a Diversity, Equity and Inclusion plan and a field safety strategy for our campus
- Increased the diversity of faculty, researchers and students in our community
- Developed a facilities and campus plan
- Increased communications to increase transparency. Written news stories increased 570% last year; instituted a monthly newsletter
- Created donor strategy that increased planned giving and total gifts by 13% in its first year
- Recruited new research teams to conduct work at the Biological Station

Honorary Research Associate, Victoria University of Wellington, New Zealand, 2016-present

- Mentor graduate students and maintain research funding
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## PREVIOUS POSITIONS

**Editor-in-Chief**, Ecological Monographs, The Ecological Society of America, 2016-20

- Helped lead strategic vision for all Ecological Society of America publications
- Led and developed strategy for one of the top journals in Ecology
- Increased number of manuscript submissions every year over tenure
- Increased the diversity of editorial board and increased journal transparency
- Increased journal impact factor to 10; maintained rank as top 10 Ecological journal

**Director** of the George D. Aiken Forestry Sciences Laboratory, **Professor**, The University of Vermont, Rubenstein School of Environment and Natural Resources, Burlington, VT, 2018-20

- Managed the Rubenstein Research laboratory facility—coordinated space, community and research activities

**Associate Professor** and **Interim Director** of the Natural Resources Program, Rubenstein School of Environment and Natural Resources, The University of Vermont, Burlington, VT, 2017-2018

- Worked on assessment for the Natural Resources program, advised students, and promoted student programming

**Associate Professor**, The Natural History Museum of Denmark, The Center for Macroecology, Evolution and Climate, The University of Copenhagen, Copenhagen, Denmark, 2014-18

**Associate Editor-in-Chief**, Ecological Monographs, 2012-16, The Ecological Society of America

- Assisted with journal vision, reviewed all manuscripts submitted, recruited editorial board
- Helped lead strategic vision for all ESA publications

Visiting Associate Professor, Hawkesbury Institute for the Environment, University of Western Sydney, Australia, 2014-25

**Associate Professor & Chair of Undergraduate Affairs**, Ecology & Evolutionary Biology, The University of Tennessee, Knoxville, TN, 2012-15

- Overhauled the undergraduate student program to increase transparency and graduation rates

Visiting Assistant Professor, Department of Biology, University of Copenhagen, Denmark, 2009-10

Assistant Professor, Ecology & Evolutionary Biology, The University of Tennessee, Knoxville, TN 2008-12

Staff Scientist, Oak Ridge National Laboratory, Oak Ridge, TN 2005-08

Research Assistant Professor, Ecology & Evolutionary Biology, University of Tennessee 2005-08

American Association of University Women (AAUW) American Fellow, 2003-04

Laboratory technician, School of Earth, Energy and Environmental Sciences, Stanford University, Palo Alto, CA, 1998-99

Middle & primary school teacher, Pinewood School, Los Altos Hills, CA, 1997-98

Middle school teacher, The Eaglebrook School, Deerfield, MA, 1995-96

## EDUCATION

### **Postdoctoral Fellow, Global Change Biology**

Oak Ridge National Laboratory, Oak Ridge, TN, 2005

### **Ph.D., Biology**

Northern Arizona University, Flagstaff, AZ, 2004

### **B.A., Biology**

Smith College, Northampton MA, 1995

Parental leave: Harry 2004 (5/04-1/05) & Finn 2007 (12/07-7/08)

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## FELLOWSHIPS & AWARDS

**Elected Fellow**, American Association for the Advancement of Science, 2024  
**Elected Fellow**, The Ecological Society of America, 2020  
**Elected Fellow**, Gund Institute for Environment, University of Vermont, 2018-20  
**Awardee**, Mentoring Award, Association for Women Soil Scientists, 2015  
**Promising young scholar**, The US National Academy of Sciences, Frontiers in Science, 2014  
**Awardee**, Research and Creative Achievement Award, UT College of Arts and Sciences, 2012  
**Awardee**, Teaching Award, Pi Beta Phi, 2012  
**Promising young scholar**, The US National Academy of Sciences Frontiers in Science, 2007  
**Fellow**, Kavli Foundation Science, 2007  
**Awardee**, Best paper, Forest Soils, Soil Science Society of America, 2007  
**Awardee**, Outstanding Mentor Award, US Department of Energy, 2006  
**American Fellow**, American Association of University Women, 2003-04  
**Graduate Fellow**, Merriam-Powell Center for Environmental Research 2002-03  
**Awardee**, Best student presentation, honorable mention, Soil Ecology Society Meetings, 2003  
**Awardee**, Best paper, Forest Soils, Soil Science Society of America, 2002  
**Elected fellow**, Sigma Xi, 1995  
**Awardee**, Brown Botany Prize, Smith College, 1995  
**Awardee**, NCAA All-American, swimming, 1991-93

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## PROFESSIONAL SERVICE

### NON-PROFIT BOARD SERVICE

**Scientific Advisory Board**, Netherlands Institute of Ecology, Wageningen, The Netherlands, 2018-present

- *Elected by the Royal Academy of Arts and Sciences to advise the Netherlands Institute of Ecology's management team regarding strategy, science vision and activities*
- *Assisted with Institute self-study and external review, 2023*
- *Search committee, Director of the Terrestrial Ecology Group, 2024*
- *Search committee, Assistant Professor of the Terrestrial Ecology group, 2024*

**Board member**, Collaborative Earth, (formerly Earthshot Institute), 2022-present

- *Strategic planning*
- *Advising leadership*

**Board of Trustees**, Rocky Mountain Biological Laboratory, Gothic, CO, 2016-22

- *Developed & implemented research, education, DEI, and community engagement strategic plan; oversee budget & infrastructure decision*
- *Strategic planning committee, 2017-20*
- *Chaired Diversity, Equity & Inclusion committee, 2019-20*
- *Research evaluation committee, 2019-20*
- *Facilities committee, 2016-20*
- *Evaluated the Executive Director, 2016-20*
- *Board self-evaluation committee, 2016-20*
- *Chair, research vision committee, 2017-19*
- *Chair, facilities committee, 2016-17*

- *Research committee, 2014-16*

#### EDITORIAL BOARD & JOURNAL SERVICE

*Editorial Committee, Annual Reviews of Ecology, Evolution, & Systematics, 2022-present, journal ranks 3rd out of all Ecology & Evolutionary Biology Journals*

*Editorial board, Ecology & Ecological Monographs, Ecological Society of America, 2011-22*

*Visiting Editorial Committee, Annual Reviews of Ecology, Evolution, and Systematics, 2021*

*Special Issue Guest Editor, Functional Ecology, 2017-18*

*Editorial Board, Ecology Letters, 2012-16*

*Associate Editor, Journal of Plant Ecology, 2014-16*

*Guest Editor, Ecosphere, 2012*

*Committee member, Ecological Society of America (ESA) committee to envision the future of ESA journals, 2012-13*

#### EXTERNAL ACADEMIC REVIEW & STEERING COMMITTEE SERVICE

*Co-chair, The US Department of Energy: Designing Future Ecosystem Experiments Part 1: Lessons Learned from Ecosystem-scale Experimental Field Studies Workshop, 2024-25*

*External Reviewer, Program in Evolution, Ecology, & Biodiversity, College of Biological Sciences, University of California, Davis, CA 2019*

*Steering committee, Functional Ecology of Alpine Plants Global Network, 2018-21*

*Steering committee, Terrestrial Ecosystem Response to Atmospheric and Climatic Change, 2007-10*

#### OTHER EXTERNAL SERVICE

**Reviewer, Tenure and/or Promotion:** **2024** (USA R1 institution x3); **2023** (Regents professor x1; USA R1 institution x4; International R1 institution x1; USA R1 research organization x2); **2022** (international research institution x1; US R1 institution x2; Regents professor x1); **2021** (USA R1 academic institution x3; USA PUI x1; research institution x1; Reviewer for Regents professor x1); **2020** (USA R1 institution x2; International R1 institution x1); **2019** (international R1 institution x1; USA R1 institution x3; USA research institution x1, **2018** (USA R1 institution x2); **2017** (USA R1 institution x2); **2015** (USA R1 institution x1)

**Member, Research Center equipment Committee, Rocky Mountain Biological Lab, 2012**

**Member, Douglas Distinguished Lectureship Committee, Rocky Mountain Biological Lab, 2011-13**

**Select national agency review panels:** US National Science Foundation (2020); US Department of Energy (2018); European Union BiodivERsA ERA-NET (2015-16); US National Science Foundation (2011); US National Ecological Observatory Network site reviewer (2007)

#### UNIVERSITY & COLLEGE LEADERSHIP SERVICE

**Member, Executive Committee, The Graham Institute, University of Michigan, 2023-present**

**Member, Provost's Hiring Committee, Vice Provost of Climate Action & Sustainability, 2024**

**Member, Biosciences Initiative Coordinating Committee, 2020-23. Selected as a University Leader in the Biosciences to strengthen research and education in the biosciences across the university through strategic leadership, coordination and alignment across the campus**

**Member, University of Michigan Development Campaign Committee, 2022-23, developed strategic areas for University development campaign focused on Environmental Change**

**Member, College Carbon Neutrality facilities team, 2021-22, guided the vision to take the College of LSA facilities carbon neutral**

**Member**, Mid-career Biosciences Faculty Achievement Recognition award (MBioFAR) committee, University of Michigan, 2021-22

**Member**, Search Committee, Vice President of Research, University of Vermont, 2020

**Co-chair**, Graduate Program Review Committee, Rubenstein School, University of Vermont, 2019-20

**Member**, Rubenstein School Faculty Standards Committee, University of Vermont, 2019-20

**Chair**, Academic Benchmarking Committee, Rubenstein School, UVM, 2017-18

**Member**, College of Arts & Sciences Dean's Advisory Council, University of Tennessee, 2011-12

**Member**, University-wide Governors Chair search committee, University of Tennessee, 2009-11

#### UNIVERSITY & COLLEGE SERVICE

**Member**, Climate and Space Sciences and Engineering Assistant Professor 3rd year review committee, University of Michigan, 2024

**Mentor**, University of Michigan Collegiate Fellow, Mia Howard, 2022-24

**Member**, University of Michigan LSA Carbon Neutrality Program Manager Search Committee, 2023, hired a leader to help take the college carbon neutral

**Member**, Faculty 3rd year review Committee, School for Environment and Sustainability, University of Michigan, 2022, 2023

**Program Reviewer**, Keck Foundation-Science & Engineering and Medical Research Program, University of Michigan, 2022

**Mentor**, Michigan Fellow, Roberto Márquez, University of Michigan, 2022-23

**Member**, Working Group Committee, The Institute for Global Change Biology, University of MI, 2022

**Member**, College Graduate Student Standards Committee, University of Vermont, 2017-20

**Affiliated Faculty**, Quantitative and Evolutionary STEM Training Program, University of VT, 2017-20

**Affiliated Faculty**, Food Systems Graduate Program, University of Vermont, 2017-20

**Member**, NEON Soil sensor Technical Working group, 2017-18

**Member**, University Natural Sciences Undergraduate Affairs committee, University of TN, 2012-14

**Faculty Affiliate**, Initiative for Quaternary Paleoclimate Research, University of Tennessee, 2011-15

**Mentor**, Program for Excellence & Equity in Research, University of Tennessee, 2011-14

**Faculty Affiliate**, Bredesen Center for Interdisciplinary Research and Graduate Education, University of Tennessee, 2011-13

**Member**, University committee for women, University of Tennessee, 2009-10

**Member**, National Ecological Observatory Network (NEON) committee, University of TN, 2006-07

#### UNIVERSITY DEPARTMENTAL SERVICE

**Member**, Departmental Graduate Affairs Committee, University of Michigan, 2024-present

**Mentor**, Departmental Junior Faculty, University of Michigan, Thais Vasconcelos (2022-present), André Green (2021-present), Kelly Speer (2023-24)

**Member**, Faculty Launch Committee, Mia Howard, 2024-present, University of Michigan

**Member**, Departmental Faculty Tenure Report Committee, University of Michigan, 2024, 2023

**Member**, Departmental Awards Committee, University of Michigan, 2023, 2024

**Chair**, Departmental Faculty Tenure Report Committee, University of Michigan, 2022, 2021

**Member**, Departmental Faculty 3rd year review, University of Michigan

Chair, Departmental Retreat Committee, University of Michigan, 2021-23

Member, Frontiers Master's Program Admission Committee, Ecology & Evolutionary Biology, University of Michigan, 2021-22

Member, Departmental Faculty 3rd Year Review Committee, University of Michigan, 2021

Chair, Outreach & Engagement Committee, Center for Macroecology, Evolution & Climate, University of Copenhagen, 2015-18

Chair, Disease Ecology Faculty Search Committee, University of Copenhagen, 2015

Member, Departmental Executive Committee, University of Tennessee, 2012-15

Member, Department Head Search Committee, University of Tennessee, 2012-13

Member, Departmental Undergraduate Curriculum Committee, University of Tennessee, 2008-11

Member, Department Ecology Faculty Search Committee, University of Tennessee, 2010

Mentor, Historically Black Colleges & Universities & Minority Education Institutions Research Program, Oak Ridge National Laboratory, 2007

Mentor, Southeastern Consortium for Minorities in Engineering & Science, Oak Ridge National Laboratory, 2006

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## INVITED TALKS, PRESENTATIONS & PANELS

**Invited talks 2024:** University of Miami, Department of Biology; Michigan State, Ecology & Evolutionary Biology; Kellogg Biological Station

**Keynote,** US Department of Energy, Washington, DC, 2024

**Presenter,** Graduate student recruitment flash talk, Ecology & Evolutionary Biology, University of Michigan, 2024

**Invited talk 2023:** Institute for Global Change Biology, University of Michigan

**Invited panelist,** Career Event for Alpha Tau Pi, a professional biology fraternity, University of Michigan, 2023

**Keynote,** Evolution, Climate Change and Infectious Disease Symposia, University of Michigan, 2022

**Keynote,** Université de Montréal, 100th anniversary of the département de sciences biologiques de l'UdeM celebration, Canada, 2022

**Keynote,** Cornell University, "Celebrating 65 years of biogeochemistry at Cornell - Learning from the past to inform the future" special seminar series, 2022

**Invited talks 2022:** Michigan Ecology and Evolutionary Biology Society of undergraduates, University of Michigan (fall & winter term); Ohio State University, Department of Biology

**Invited panelist & speaker,** Stoichiometry in Symbiosis Workshop, Ohio State University, 2021

**Invited talks 2020:** American Geophysical Union, American Society for Microbiology (ASM, plenary speaker, postponed), University of Houston (postponed), Cornell University (postponed)

**Keynote,** Jack and Pat Bryan Distinguished Lecture, Syracuse University, 2020

**Invited talks 2019:** University of Michigan, EEB; University of Michigan, SEAS; Texas Tech University; University of Lincoln, Lincoln, UK; Holden Arboretum, Cleveland, Ohio; McGill University, Montreal, Canada

**Invited presenter,** Ecological Society of America webinar, Academic Publishing, 2019

**Invited panelist,** Women in Soil Science Event, The University of Vermont, 2019

**Invited talks 2018:** Concordia University, Canada; Harvard Forest, Harvard University; The University of Vermont, Department of Biology; The University of Michigan

**Plenary Speaker**, American Society for Microbiology, 2018

**Invited panelist**, “getting into graduate school”, Rocky Mountain Biological Station, 2018

**Invited talks 2017**: INIBIOMA, CONICET, Universidad Nacional del Comahue, Argentina; The Vermont Agency of Natural Resources; Smith College, USA; The University of New Hampshire; The University of Minnesota; Swedish University of Agricultural Sciences, Uppsala, Sweden; The University of Vermont, Plant and Soil Sciences Department; Doñana Biological Station, Sevilla, Spain; The Gund Institute, The University of Vermont; The University of Vermont, Plant Biology Department; The University of Massachusetts, Department of Microbiology

**Keynote**, The US Department of Energy TES/SBR meeting, Washington DC, 2017

**Keynote**, The 2nd Global Soil Biodiversity Conference, China, 2017

**Invited talks 2016**: The University of Vermont, Rubinstein School of the Environment; New Mexico State University, Department of Plant Sciences; Jornada Long Term Ecological Research Station (ARS); German Centre for Integrative Biodiversity Research (iDiv), Germany

**Invited talks 2015**: University of Notre Dame, Department of Biology; Dartmouth College, Department of Biology; The Villum Foundation, Denmark; Estonian University of Life Sciences, Estonia; Ecological Society of America meeting Organized Oral Session; Global Network of Long-term Observatories on Mountain Social-Ecological Systems, USA

**Keynote**, Natural History Museum of Denmark “Science Gala, Vin & Videnskab”, Denmark, 2015

**Keynote**, Danish Oikos meetings, Denmark, 2015

**Invited panelist**, Women in Science Ethics, Rocky Mountain Biological Laboratory, 2015

**Invited talks 2014**: Henan University, China; University of Copenhagen, Terrestrial Ecology, Denmark; Rocky Mountain Biological Laboratory; “Geek Week” Crested Butte Colorado Science Festival, Colorado; Rocky Mountain Biological Laboratory science series; Ecological Society of America Meetings Organized Oral Session; Natural History Museum of Denmark, Evolutionary Genomics Section, Denmark; Center for Macroecology, Evolution and Climate (CMEC), Denmark; Lund University, Sweden

**Keynote**, British Ecological Society Conference on Carbon, UK, 2014

**Invited talks 2013**: Institute of Botany, Chinese Academy of Sciences, China; Institute of Geographic Sciences & Natural Resources Research, CAS, China; German Academic Exchange Service & the Alexander von Humboldt Foundation webinar, Germany; Umeå University, Department of Biology, Sweden; University of Alberta, Canada; German Centre for Integrative Biodiversity Research (iDiv), Germany

**Presenter**, USA Science Festival, Washington DC, 2013, 2012, 2011

**Invited talks 2012**: American Geophysical Union Symposia; Indiana University; Peking University, China; Swedish University of Agricultural Sciences, Umeå, Sweden; Boise State University, Department of Biology; University of New Mexico, Department of Biology; University of British Columbia, Canada; “Geek Week”, Crested Butte Colorado Science Festival

**Invited talks 2011**: Imperial College London, Silwood Park, UK; University of College London, UK; Developing International Geoarchaeology Conference, Tennessee; The Ecological Society of America, Symposia; University of Kentucky; Scottish Crop Research Institute, Scotland

**Invited talks 2010**: The Ecological Society of America meeting, Organized Oral Session; University of Copenhagen, Department of Biology, Denmark; Netherlands Instituut voor Ecologie, The Netherlands; University of Copenhagen, Ecology & Evolutionary Biology, Denmark; The Naturalist Club of Tennessee

**Invited talks 2009**: Department of Energy, Program for Ecosystem Research, Washington DC; Maryland American Association of University Women Conference; University of North Carolina, Asheville; Center for Macroecology and Evolution, Denmark; Alabama A&M University; League of Women Voters Knoxville, Tennessee

**Invited talks 2006-08:** Cornell University, New York; Department of Energy, Biological & Environmental Research, Global Change Education; University of Tennessee, Knoxville; Appalachian State University; Ecological Society of America symposia; Department of Energy, Program for Ecosystem Research workshop on precipitation, Denmark; Harvard Forest, Harvard University

**Invited panelist,** US Department of Energy Day of Science participant to attract underrepresented students into scientific professions, 2006

**Invited talks 2002-04:** University of Notre Dame; Oak Ridge National Laboratory; Humboldt State University; Redwood Sciences Laboratory, US Forest Service

**Selected contributed talks, 2008-present:** Ecological Society of America (>67); American Society for Microbiology (>5); International Congress of Entomology (1); International Congress of Entomology (1); International Society for Microbiology: ISME (1); Botanical Society of America (1); Oikos meeting (2); American Geophysical Union (>10); Ecology of Microorganisms (2); European Geophysical Union (4); EURCA Undergraduate Research Fair (11); Soil Ecology (11); Soil Science Society of America (6); Association of Southeastern Biologists (4); Southwestern Association of Biologists (4); Mid-Atlantic States Mycology Conference (2); EuroSoils (1); Enzymes in the Environment (2); Southern Forest Tree Improvement Conference (1); Microbes as Important Drivers of Soil Processes meeting (1); Argonne National Laboratory Soils Workshop (2); Southern Appalachian Man and the Biosphere Conference (1); Dissertations Initiative for the Advancement of Climate Change Research Symposium (1); Women Evolving the Biological Sciences Symposia (1); Joint Meeting of the Society for Range Management and the American Forage and Grassland Council (1); South Eastern Population Ecology and Evolutionary Genetics (SEPEEG) Conference (1); International Association of Landscape Ecologists World Congress (1); American Association for the Advancement of Science (1); National Academies of Sciences Frontiers of Science Symposia (2); Ecological Society of Japan (1)

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## SELECTED ORGANIZED & INVITED WORKING GROUPS

**Organized,** Ecosystem Consequences of Changing Winters in the Anthropocene, Department of Energy ESS PI Meeting, Washington, DC, 2024

**Invited,** Invasive ant impacts on ecosystem function, Sevilla, Spain, 2024

**Invited,** Biotic modulators of plant community resistance and resilience to global changes—Synthesis of the current knowledge and future directions. University Oulu, Finland, 2023

**Invited,** Stoichiometry in Symbiosis Workshop, Ohio State University, 2021

**Organized,** Tipping the Scales: Strategy And Tactics For Successful Manuscript Submissions, ESA Annual Meeting, co-organizer, 2020

**Invited,** Creating a framework to interpret and model plant and mycorrhizal fungal traits at the global scale, NIMBioS, University of Tennessee, 2020

**Invited,** The Living Earth Collaborative Parasite-Ecosystem, Washington University, Missouri, 2019, 2018

**Organized,** WaRM Warming and species Removals in Mountains workshop, Vermont, 2018

**Invited,** Enhancing Long-Term Soil Carbon Sequestration by Ectomycorrhizal Fungi, University of Michigan, 2018

**Organized,** INTERFACE Microbial Carbon Cycling workshop, Vermont, 2017

**Organized,** Warming and species Removals in Mountains workshop, Denmark, 2016

**Organized,** INTERFACE-Climani workshop on tipping points, Italy, 2016

**Invited,** ClimFun Fungal Communities under global change symposia, Denmark, 2016

**Organized,** Frontiers in terrestrial climate feedbacks workshop, INTERFACE, 2016

**Invited,** Climate models revisited —mycorrhizal dynamics, Royal Netherlands Academy, The Netherlands, 2015



Invited, Tropical Plant Collections: Legacies from the past?, Royal Danish Academy of Sciences, Denmark, 2015

Invited, Ecological Society of America Organized Oral Session, 2015

Invited, American Geophysical Union, Symposia on data-model fusion, 2015

Organized, Global Network of Long-term Observatories on Mountain Social-Ecological Systems, 2015

Invited, Using results from global change experiments to inform land model development, China, 2014

Invited, The US National Academy of Sciences Frontiers of Science & Engineering Promising Young Scholar program, Brazil, 2014

Invited, Biodiversity and forest management workshop, University of Copenhagen, Denmark, 2014

Invited, The US Department of Energy's workshop on Research for Sustainable Bioenergy, 2013

Organized, INTERFACE, Scaling across space and time, Czech Republic, 2013

Invited, Understanding Biodiversity and Climate Change, German Academic Exchange Service, Germany, 2012

Invited, National Socio-Environmental Synthesis Center (SESYNC), workshop, University of MI, 2012

Organized, INTERFACE, Nutrient constraints on the net carbon balance, Iceland, 2011

Organized, INTERFACE, How Do We Improve Earth System Models?, Florida, 2011

Invited, National Institute for Mathematical and Biological Synthesis – linking plants and soil, 2011

Invited, Oak Ridge National Laboratory, Laboratory Directed Research & Development Initiative, 2010

Invited, US Department of Energy, US National Science Foundation, long-term global change experiments, 2009

Organized, Optimizing soil process representations in climate models. Oak Ridge, Tennessee, 2009

Invited, Department of Energy, The Next Generation of Climatic Change Experiments, 2008

Invited, NSF ADVANCE, Women Evolving Biological Sciences, 2008

Invited, US National Academy of Science, Kavli Frontiers of Science, Promising Young Scholar Program, 2006

Organized, Ecological Society of America Symposia, data-model integration, 2006

Invited, Effects of precipitation change on terrestrial ecosystems, Denmark, 2006

Invited, How to succeed in ecology, Ecological Society of America, 2006

Invited, Terrestrial Ecosystem Response to Atmosphere and Climate Change, 2005

Invited, European Geophysical Union, symposia on neutrons in science, Austria, 2005

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## RESEARCH FUNDING

### CURRENT FUNDING

#### *US DEPARTMENT OF ENERGY*

- The US Department of Energy, 2022-25, AmeriFlux Management Project Core Site, \$325,626 sub-contract, Co-PI
- The US Department of Energy, 2021-25, The potential for advanced snowmelt timing to decouple plant and mycorrhizal fungal phenology and biogeochemical cycling, \$897,998, plus allocation to LBL, total = \$999,698, Co-PI

#### *US NATIONAL SCIENCE FOUNDATION*

- The US National Science Foundation, 2024-28, AccelNet Implementation MICROBENet-Net: Multi-Institute Collaborative Research on BELOWground plant-microbial interactions Network of Networks. \$1,500,000, Co-PI
- The US National Science Foundation, 2020-25, LTREB: Phenological responsiveness of plants and bees: consequences for species, interactions, community composition and biomass. \$741,187 USD, Co-PI

- The US National Science Foundation, 2021-26, Collaborative Research: Understanding How Students' Sense of Belonging Develops During Undergraduate Field Experiences: Supports, Barriers, and Implications for Faculty \$68,875, Host PI

#### *OTHER AGENCY/FOUNDATION*

- The Wild Animal Initiative, 2024-26, How do sublethal parasitic infections influence the diet and welfare of North America's most abundant mammals? \$167,337, Co-PI
- General Secretary of Universities, Research and Technology, Andalusia, Spain, 2022-25 Ecosystem effects of the Invasive Argentine Ant: Fauna and Soil, 179,870 Euro, Co-PI
- Marsden Fund, Royal Society Te Apārangi, New Zealand, 2021-24, Changing climate and biodiversity in mountains: understanding the interactive effects of warming, species extinctions and invasions on ecosystem function, 960000 NZD, Co-PI
- The Swedish Scientific Research Council, 2020-24, The impact of competition on plant-mycorrhizal associations in a warmer Arctic, 4,340,000 SEK, Co-PI

#### *INTERNAL FUNDS*

- McIntire-Stennis, University of Michigan, 2024-26, From trees to stands: Assessing forest ecosystems integrated multifunctionality at scales relevant to decision making, \$139,534, Co-PI
- University of Michigan School for Environment and Sustainability Themes Funds, 2023-24, Adaptive management of culturally and economically important wildlife in tribal lands of Michigan's Upper Peninsula, \$80,000, Co-PI

#### *PRIOR FUNDING*

##### *US DEPARTMENT OF ENERGY*

- Environmental Molecular Science Laboratory (EMSL) Exploratory Research proposal (2020) Exploring soil organic matter dynamics in a warming world using an array of warming experiments and soil models, \$52,834, PI
- The US Department of Energy, 2013-18, Incorporating rhizosphere interactions and soil physical properties into a soil carbon degradation model through experimenting across ecotypes, \$988,039 USD, PI
- The US Department of Energy, 2015-16, Bog extension: Incorporating rhizosphere interactions and soil physical properties into a soil carbon degradation model through experimenting across ecotypes, \$23,105, PI
- The US Department of Energy, 2006-09, Community and ecosystem response to global change: interactive effects of atmospheric carbon dioxide, surface temperatures, and soil moisture, \$1,700,000, PI
- The US Department of Energy, 2007-09, Implications of enhanced fine-root production in the Oak Ridge FACE experiment, \$1,200,000 USD, Co-PI
- The US Department of Energy, 2005-06, Responses to elevated CO<sub>2</sub> in a closed canopy deciduous forest, \$597,444, Co-PI

##### *US NATIONAL SCIENCE FOUNDATION*

- The US National Science Foundation, 2019-23, RII Track-2 FEC: Leveraging Intelligent Informatics and Smart Data for Improved Understanding of Northern Forest Ecosystem Resiliency, \$3,000,000, Co-PI
- The US National Science Foundation, 2021, REP supplemental for LTREB: Phenological responsiveness of plants and bees: consequences for species, interactions, community composition and biomass. \$54,570, PI

- The US National Science Foundation, 2019-20, LTREB: Phenological responsiveness of plants and bees: consequences for species, interactions, community composition and productivity, \$171,416, Co-PI
- The US National Science Foundation, 2010-17, Research Coordination Network: Integrated Network for Terrestrial Ecosystem Research on Feedbacks to the Atmosphere and Climate, \$500,000, Co-PI

#### *OTHER AGENCIES*

- Natural Environment Research Council, UK, 2018-20, Functional Ecology of Alpine Systems; a global network, 80,905 GBP, collaborative partner
- The US Department of Agriculture, 2019, Acquisition of an ICP-OES for a multiuser facility \$49,975, Co-PI
- Ministry of Business Innovation and Employment's Te Pūnaha Hihiko Fund, New Zealand, 2016-18, The Future of Our Taonga Tipu. 100,000 NZD, Co-PI
- Climate Impacts Research Centre, Sweden, 2017, Automatic Detection of Arctic Microarthropods, 50,000 SEK, Co-PI
- Carlsberg Foundation, 2015, Request for a gas exchange cluster to explore climate change impacts on montane ecosystems around the world, 360,000 DKK, PI
- IK lykkes fond, Norway, 2015, Alpine plant-fungal interactions under shrub encroachment and their role in ecosystem carbon turnover, 20,000 NOK, Co-PI

#### *INTERNAL FUNDS & SUB-CONTRACTS*

- McIntire-Stennis, University of Michigan, 2022-24, Assessing Tradeoffs in Forest Resilience to Water and Productivity losses at the Boreal–Temperate Ecotone, McIntire-Stennis, University of Michigan, \$150,000, Co-PI
- McIntire-Stennis, University of Vermont, 2019-24, The State of Carbon in Northeast Forests – creating an Integrated Soil Carbon inventory to explore and understand what drives variation in soil carbon across scales and with management, \$512,352, Co-PI
- Gund Institute Catalyst Award, 2020–21, Low cost & high frequency quantification of soil nutrients in ecosystems undergoing rapid global change, \$50,000, PI
- Gund Institute Catalyst Award, 2017-19, Catalyzing research, scholarship, and teaching in montane systems, \$46,538, Co-PI
- Hawkesbury Institute for the Environment Research Exchange Program, Australia, 2014-15, 9,964 AUD, PI
- Oak Ridge National Laboratory, 2013-15, Applying methods for the study of plant-microbe interactions, \$44,475, PI
- The University of Tennessee, 2013-14, Initiative for Quaternary Paleoclimate Research, \$40,000, Co-PI
- Oak Ridge National Laboratory, 2013, Joint Directive Research and Development, Incorporating rhizosphere interactions and soil physical properties into a soil carbon degradation model, \$55,000, PI
- The University of Tennessee, 2013, Technology to improve ecology labs and curriculum at UT \$85,000, Co-PI
- The University of Tennessee, 2012-13, Initiative for Quaternary Paleoclimate Research, \$55,000, Co-PI
- Oak Ridge National Laboratory, 2013, Joint Directive Research and Development. Incorporating microbial dynamics that alter soil carbon fluxes into terrestrial carbon cycle models, \$47,846, PI
- Oak Ridge National Laboratory, 2011-12, Assessment of microbial communities associated with wood decomposition, \$192,298, PI
- The University of TN, 2011, Initiative for Quaternary Paleoclimate Research, \$51,600, Co-PI

- The University of Tennessee, 2011, Microbiology across Campuses Educational and Research Venture, Understanding the links among microbial community composition and function and soil processes, \$10,000, PI
- Oak Ridge National Laboratory, 2010, Joint Directive Research and Development. Combining molecular biology with ecology to determine the genetic and environmental constraints to primary productivity, \$64,940, PI
- The University of Tennessee, 2010, Microbiology across Campuses Educational and Research Venture. Bridging the gaps in soil carbon and nitrogen cycling: microbes as predictors of global climate change?, \$21,315, PI
- Oak Ridge National Laboratory, 2009, Assessment of microbial communities associated with *Populus*. \$56,113, PI
- Oak Ridge National Laboratory, 2009, Joint Directive Research and Development. Developing a systems biology approach for linking genetic and environmental constraints to primary productivity – can patterns scale to the field?, \$63,000, PI
- Oak Ridge National Laboratory, 2006-08, Lab Directed Research and Development, Disentangling soil respiration using genomic techniques, \$655,000, PI
- Oak Ridge National Laboratory, 2008-09, Lab Directed Research and Development, Carbon drivers of the microbe-switchgrass rhizosphere interface, \$750,000, Co-PI
- Oak Ridge National Laboratory SEED, 2006, Does genetic diversity within species influence ecosystem nutrient cycling?, \$20,000, PI

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## PEER-REVIEWED PUBLICATIONS

GOOGLE SCHOLAR H-INDEX = 58, # OF CITATIONS = 16,020

*\*undergraduate student, \*\*graduate student, +postdoctoral fellow, ^research lab member*

126. Brinkhoff RE, Sanders NJ, Henning JA, Newman G, Prager C, Read QD, Rewcastle KE, Sundqvist MK, Hovenden MJ, Souza L, Vought OK, Classen AT (*in review*) Dominant plant species increase the impact of warming on the carbon cycle at low, but not high elevation mountain sites.
125. Vought OK, Sanders NJ, Ibañez I, Sundqvist MK, Henning JA, Prager CM, Read QD, Rewcastle KE, Classen AT (*in review*) Effects of warming and dominant species removal on plant biomass are driven by early-season production.
124. Souza L, Classen AT, Rudgers JA, Miller ML, Pyle JAM, Simberloff R, Fordyce JA, Harte J, Kivlin SN (*in review*) Warming temperatures decouple interactions between plants and soil microbes.
123. Schulman HB<sup>+</sup>, Pyle JAM, Classen AT, Inouye D, Simberloff R, Sorensen P, Thomas IV W, Rudgers JA, Kivlin SN (*in review*) Phosphorus limitation shapes metabolic strategy of fungal-bacterial partnerships in montane meadow soil.
122. Reed, D.E., H. Chu, B.G. Peter, J. Chen, M. Abraha, B. Amiro, R.G. Anderson, M.A. Arain, P. Arruda, G.A. Barron-Gafford, C. Bernacchi, D.P. Beverly, S.C. Biraud, T.A. Black, P.D. Blanken, G. Bohrer, R. Bowler, D.R. Bowling, M.S. Bret-Harte, Mario Bretfeld, Nathaniel A. Brunsell, Stephen H. Bullock, Gerardo Celis, Xingyuan Chen, Aimee T. Classen, David R. Cook, Alejandro Cueva, Higo J. Dalmagro, Kenneth Davis, Ankur Desai, Alison J. Duff, Allison L. Dunn, David Durden, Colin W. Edgar, Eugenie Euskirchen, Rosvel Bracho, Brent Ewers, Lawrence B. Flanagan, Christopher Florian, Vanessa Foord, Inke Forbrich, Brandon R. Forsythe, John Frank, Jaime Garatuza-Payan, Sarah Goslee, Christopher Gough, Mark Green, Timothy Griffis, Manuel Helbig, Andrew C. Hill, Ross Hinkle, Jason Horne, Elyn Humphreys, Hiroki Ikawa, Go Iwahana, Rachhpal Jassal, Bruce Johnson, Mark Johnson,, Steven A. Kannenberg, Eric Kelsey, John King, John F. Knowles, Sara Knox,, Hideki Kobayashi, Thomas Kolb, Randy Kolka, Ken W. Krauss, Lars Kutzbach, Brian Lamb, Beverly Law, Sung-Ching Lee, Xuhui Lee, Heping Liu, Henry W. Loescher,, Sparkle L. Malone, Roser Matamala, Marguerite Mauritz, Stefan Metzger,, Gesa Meyer, Bhaskar Mitra, J. William Munger, Zoran Nestic, Asko Noormets, Thomas L.

- O'Halloran, Patrick T O'Keeffe, Steven F. Oberbauer, Walter Oechel, Patty Oikawa, Paulo C. Olivas, Andrew Ouimette, Gilberto Pastorello, Jorge F. Perez-Quezada, Claire Phillips, Gabriela Posse, Bo Qu, William L. Quinton, Michele L. Reba, Andrew D. Richardson, Valentin Picasso, Adrian V. Rocha, Julio C. Rodriguez, Roel Ruzol, Scott Saleska, Russell L. Scott, Adam P. Schreiner-McGraw, Edward A.G. Schuur, Maria Silveira, Oliver Sonnentag, David L. Spittlehouse, Ralf Staebler, Gregory Starr, Christina Staudhammer, Chris Still, Cove Sturtevant, Ryan C. Sullivan, Andy Suyker, David Trejo, Masahito Ueyama, Rodrigo Vargas, Brian Viner, Enrique R. Vivoni, Dong Wang, EJ Ward, S Wiesner, L Windham-Myers, D Yannick, EA Yepez, T Zenone, J Zhao, D Zona (*in revision*) Network of Networks: Time-Series Clustering of AmeriFlux Sites. *Journal of Geophysical Research: Biogeosciences*
121. Propson BE, Zak DR, Classen AT, Burton AJ, Freedman ZB (2024) Gains in soil C storage under anthropogenic N deposition are rapidly lost following its cessation. *Ecology* <https://doi.org/10.1002/ecy.4444>
  120. Jing X, Classen AT, Li D, Lin L, Mingzhen L, Sanders NJ, Wang Y, Feng W (2024) The overlooked third dimension: soil depth drives microbial community structure and function along a salinity gradient. *Ecography* [doi.org/10.1111/ecog.07118](https://doi.org/10.1111/ecog.07118)
  119. Pastore MA<sup>+</sup>, Classen AT, D'Amato AW, English ME, Rand K<sup>^</sup>, Foster JF, Adair EC. (2024) Frequent and strong cold-air pooling drives temperate forest composition. *Ecology & Evolution* [doi.org/10.1002/ece3.11126](https://doi.org/10.1002/ece3.11126)
  118. Potapov AM, CA Guerra, J van den Hoogen, A Babenko, BC Bellini, MP Berg, SL Chown, L Deharveng, L Kováč, NA Kuznetsova, J Ponge, MB Potapov, DJ Russell, D Alexandre, JM Alatalo, JI Arbea, I Bandyopadhyay, V Bernava, S Bokhorst, T Bolger, G Castaño-Meneses, M Chauvat, T-W Chen, M Chomel, AT Classen, J Cortet, P Čuchta, A Manuela de la Pedrosa, SSD Ferreira, C Fiera, J Filser, O Franken, S Fujii, EG Koudji, M Gao, B Gendreau-Berthiaume, DF Gomez-Pamies, M Greve, IT Handa, C Heiniger, M Holmstrup, P Homet, M Ivask, C Janion-Scheepers, M Jochum, S Joimel, BCS Jorge, E Jucevica, L Carlos Iuñes de Oliveira Filho, O Klauber-Filho, D Baretta, EJ Krab, A Kuu, ECA de Lima, D Lin, A Liu, J Lu, MJ Luciañez, MT Marx, MM McCary, MA Minor, T Nakamori, I Negri, R Ochoa-Hueso, JG Palacios-Vargas, MM Pollierer, P Querner, N Raschmanová, Muhammad Imtiaz Rashid, LJ Raymond-Léonard, L Rousseau, RA Saifutdinov, S Salmon, EJ Sayer, N Scheunemann, C Scholz, J Seeber, YB Shveenkova, SK Stebaeva, M Sterzynska, X Sun, WI Susanti, AA Taskaeva, MP Thakur, MA Tsiafouli, MS Turnbull, MN Twala, AV Uvarov, LA Venier, LA Widenfalk, BR Winck, D Winkler, D Wu, Z Xie, R Yin, D Zeppelini, TW Crowther, N Eisenhauer, S Scheu (2024) Global fine-resolution data on springtail abundance and community structure. *Scientific Data* 11:22. [doi.org/10.1038/s41597-023-02784-x](https://doi.org/10.1038/s41597-023-02784-x)
  117. Spinnella S<sup>\*\*</sup>, Classen AT, Sanders NJ, McLaren JR (2024) Context dependence of warming induced shifts in montane soil microbial functions. *Functional Ecology* 38:1199–1209 <https://doi.org/10.1111/1365-2435.14538>
  116. Suonan J., Lv W Classen AT, Wang W, La B, Lu X, Songzha C, Chen C, Miao Q, Sun Lamao, Wang S (2024) Alpine plants exhibited deep supercooling upon exposed to episodic frost events during the growing season on the Qinghai-Tibet Plateau. *Journal of Plant Ecology*: rtae034 <https://doi.org/10.1093/jpe/rtae034>
  115. Zhao C, Zhao Y, Classen AT, Wang Z, Li Y, Liu Y, Yang Z, Li G, Fu S (2024) Drought shifts soil nematode and microbial community traits and mediates the carbon cycle. *Journal of Plant Ecology* 17(2): rate012
  114. Potapov AM, CA Guerra, J van den Hoogen, A Babenko, BC Bellini, MP Berg, SL Chown, L Deharveng, L Kováč, NA Kuznetsova, J Ponge, MB Potapov, DJ Russell, D Alexandre, JM Alatalo, JI Arbea, I Bandyopadhyay, V Bernava, S Bokhorst, T Bolger, G Castaño-Meneses, M Chauvat, T-W Chen, M Chomel, AT Classen, J Cortet, P Čuchta, A Manuela de la Pedrosa, SSD Ferreira, C Fiera, J Filser, O Franken, S Fujii, EG Koudji, M Gao, B Gendreau-Berthiaume, DF

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113. Pastore MA<sup>+</sup>, Classen AT, English ME<sup>^</sup>, Frey SD, Knorr MA, Rand K<sup>^</sup>, Adair EC (2023) Soil microbial legacies influence freeze-thaw responses of soil. *Functional Ecology* 37:1055-1066. DOI: 10.1111/1365-2435.14273
  112. Yancy CE<sup>\*</sup>, Juice SM<sup>\*\*</sup>, Classen AT, Rustad L, Adair EC (2023) The impact of ice storms on mycorrhizal fungi varies by season and mycorrhizal type in a hardwood forest. *Ecosphere* 14(5): e4526. <https://doi.org/10.1002/ecs2.4526>
  111. Barrios-Garcia MN, Gonzalez-Polo M, Simberloff D, Classen AT (2022) Wild boar activity impacts soil function, but that impact varies by plant community. *Biological Invasions*. <https://doi.org/10.1007/s10530-022-02936-x>
  110. Jing X<sup>+</sup>, Prager CM<sup>+</sup>, Chen L, Chu H, Gotelli NJ, He JS, She Y, Yang T, Zhu B, Classen AT, Sanders NJ (2022) The influence of aboveground and belowground species composition on spatial turnover in nutrient pools in alpine grasslands. *Global Ecology & Biogeography* 31:486-500. DOI: 10.1111/geb.13442
  109. Koltz AM, Civitello D, Becker D, Deem SL, Classen AT, Barton BT, Brenn-White M, Johnson ZE, Kutz S, Malishev M, Preston D, Vannatta JT, Penczykowski RM, Ezenwa V (2022) Sublethal effects of parasitism on ruminants can have cascading consequences for ecosystems. *Proceedings of the National Academies of the Sciences* 119, e2117381119.
  108. Pastore MA<sup>+</sup>, Classen AT, D'Amato AW, Foster JR, Adair EC (2022) Cold air pools as microrefugia for ecosystem functions in the face of climate change. *Ecology* DOI: 10.1002/ecy.3717
  107. Prager CM<sup>+</sup>, Classen AT, Sundqvist MK, Barrios-Garcia MN, Cameron EK, Chen L, Chisholm C, Crowther T, Deslippe JR, Grigulis K, He JS, Henning J, Hoenden M, Høye TT, Jing X<sup>+</sup>, Lavorel S, McLaren JR, Metcalfe DB, Newman G<sup>^</sup>, Rixen C, Read QD, Rewcastle KE<sup>\*\*</sup>, Rodriguez-Cabal MA, Wardle DA, Wipf S, Sanders NJ (2022) Integrating natural gradients, experiments, and statistical modelling in a distributed network experiment: An example from the WaRM Network. *Ecology & Evolution* DOI: 10.1002/ece3.9396
  106. Rewcastle KE<sup>\*\*</sup>, Henning JA<sup>\*\*</sup>, Read QD<sup>\*\*</sup>, Irwin R, Sanders NJ, Classen AT (2022) Plant removal across an elevational gradient marginally reduces rates, substantially reduces variation in mineralization. *Ecology* 103(1):e03546. DOI: 10.1002/ecy.3546
  105. Santangelo, J. S., R. W. Ness, B. Cohan, C. R. Fitzpatrick, S. G. Innes, S. Koch, L. S. Miles, S. Munim, P. R. Peres-Neto, C. Prasad, A. T. Tong, W. E. Aguirre, P. O. Akinwole, M. Alberti, J. Álvarez, J. T. Anderson, J. J. Anderson, Y. Ando, N. R. Andrew, F. Angeoletto, D. N. Anstett, J. Anstett, F. Aoki-Gonçalves, A. Z. A. Arietta, M. T. K. Arroyo, E. J. Austen, F. Baena-Díaz, C. A. Barker, H. A. Baylis, J. M. Beliz, A. Benitez-Mora, D. Bickford, G. Biedebach, G. S. Blackburn, M. M. A. Boehm, S. P. Bonser, D. Bonte, J. R. Bragger, C. Branquinho, K. I. Brans, J. C. Bresciano, P. D. Brom, A. Bucharova, B. Burt, J. F. Cahill, K. D. Campbell, E. J. Carlen, D. Carmona, M. C. Castellanos, G. Centenaro, I. Chalen, J. A. Chaves, M. Chávez-Pesqueira, X.-Y. Chen, A. M. Chilton, K. M. Chomiak, D. F. Cisneros-Heredia, I. K. Cisse, A. T. Classen, M. S. Comerford, C. C. Fradinger, H. Corney, A. J. Crawford, K. M. Crawford, M. Dahirel, S. David, R. D. Haan, N. J.

Deacon, C. Dean, E. del-Val, E. K. Deligiannis, D. Denney, M. A. Dettlaff, M. F. DiLeo, Y.-Y. Ding, M. E. Domínguez-López, D. M. Dominoni, S. L. Draud, K. Dyson, J. Ellers, C. I. Espinosa, L. Essi, M. Falahati-Anbaran, J. C. F. Falcão, H. T. Fargo, M. D. E. Fellowes, R. M. Fitzpatrick, L. E. Flaherty, P. J. Flood, M. F. Flores, J. Fornoni, A. G. Foster, C. J. Frost, T. L. Fuentes, J. R. Fulkerson, E. Gagnon, F. Garbsch, C. J. Garroway, A. C. Gerstein, M. M. Giasson, E. B. Girdler, S. Gkelis, W. Godsoe, A. M. Golemiac, M. Golemiac, C. González-Lagos, A. J. Gorton, K. M. Gotanda, G. Granath, S. Greiner, J. S. Griffiths, F. Grilo, P. E. Gundel, B. Hamilton, J. M. Hardin, T. He, S. B. Heard, A. F. Henriques, M. Hernández-Poveda, M. C. Hetherington-Rauth, S. J. Hill, D. F. Hochuli, K. A. Hodgins, G. R. Hood, G. R. Hopkins, K. A. Hovanes, A. R. Howard, S. C. Hubbard, C. N. Ibarra-Cerdeña, C. Iñiguez-Armijos, P. Jara-Arancio, B. J. M. Jarrett, M. Jeannot, V. Jiménez-Lobato, M. Johnson, O. Johnson, P. P. Johnson, R. Johnson, M. P. Josephson, M. C. Jung, M. G. Just, A. Kahilainen, O. S. Kailing, E. Kariñho-Betancourt, R. Karousou, L. A. Kirn, A. Kirschbaum, A.-L. Laine, J. M. LaMontagne, C. Lampei, C. Lara, E. L. Larson, A. Lázaro-Lobo, J. H. Le, D. S. Leandro, C. Lee, Y. Lei, C. A. León, M. E. L. Tamara, D. C. Levesque, W.-J. Liao, M. Ljubotina, H. Locke, M. T. Lockett, T. C. Longo, J. T. Lundholm, T. MacGillavry, C. R. Mackin, A. R. Mahmoud, I. A. Manju, J. Mariën, D. N. Martínez, M. Martínez-Bartolomé, E. K. Meineke, W. Mendoza-Arroyo, T. J. S. Merritt, L. E. L. Merritt, G. Migiani, E. S. Minor, N. Mitchell, M. M. Bazargani, A. T. Moles, J. D. Monk, C. M. Moore, P. A. Morales-Morales, B. T. Moyers, M. Muñoz-Rojas, J. Munshi-South, S. M. Murphy, M. M. Murúa, M. Neila, O. Nikolaidis, I. Njunjić, P. Nosko, J. Núñez-Farfán, T. Ohgushi, K. M. Olsen, Ø. H. Opedal, C. Ornelas, A. L. Parachnowitsch, A. S. Paratore, A. M. Parody-Merino, J. Paule, O. S. Paulo, J. C. Pena, V. W. Pfeiffer, P. Pinho, A. Piot, I. M. Porth, N. Poulos, A. Puentes, J. Qu, E. Quintero-Vallejo, S. M. Raciti, J. A. M. Raeymaekers, K. M. Raveala, D. J. Rennison, M. C. Ribeiro, J. L. Richardson, G. Rivas-Torres, B. J. Rivera, A. B. Roddy, E. Rodriguez-Muñoz, J. R. Román, L. S. Rossi, J. K. Rowntree, T. J. Ryan, S. Salinas, N. J. Sanders, L. Y. Santiago-Rosario, A. M. Savage, J. F. Scheepens, M. Schilthuizen, A. C. Schneider, T. Scholier, J. L. Scott, S. A. Shaheed, R. P. Shefferson, C. A. Shepard, J. A. Shykoff, G. Silveira, A. D. Smith, L. Solis-Gabriel, A. Soro, K. V. Spellman, K. S. Whitney, I. Starke-Ottich, J. G. Stephan, J. D. Stephens, J. Szulc, M. Szulkin, A. J. M. Tack, Í. Tamburrino, T. D. Tate, E. Tergemina, P. Theodorou, K. A. Thompson, C. G. Threlfall, R. M. Tinghitella, L. Toledo-Chelala, X. Tong, L. Uroy, S. Utsumi, M. L. Vandegehuchte, A. VanWallendael, P. M. Vidal, S. M. Wadgyar, A.-Y. Wang, N. Wang, M. L. Warbrick, K. D. Whitney, M. Wiesmeier, J. T. Wiles, J. Wu, Z. A. Xirocostas, Z. Yan, J. Yao, J. B. Yoder, O. Yoshida, J. Zhang, Z. Zhao, C. D. Ziter, M. P. Zuellig, R. A. Zufall, J. E. Zurita, S. E. Zytynska, and M. T. J. Johnson. 2022. Global urban environmental change drives adaptation in white clover. *Science* 375:1275-1281.

104. Seybold E, Dwivedi R, Musselman K, Kincaid D, Schroth A, Perdrial J, Classen AT, Adair EC (2022) Winter runoff events pose an unquantified continental-scale risk of high wintertime nutrient export. *Environmental Research Letters* 17: 104044
103. Zanne AE, H Flores-Moreno, J Powell, W Cornwell, J Dalling, A Austin, AT Classen, P Eggleton, K Okada, C Parr, E Adair, S Adu-Bredu, M Azharul Alam, C Alvarez-Garzón, D Apgaua, R Aragón, M Ardón, S Arndt, L Ashton, N Barber, J Beauchene, M Berg, J Beringer, M Boer, J Bonet, K Bunney, T Burkhardt, D de Carvalho, D Castillo-Figueroa, L Cernusak, A Cheesman, T Cirne-Silva, J Cleverly, JHC Cornelissen, T Curran, A D'Angioli, C Dallstream, N Eisenhauer, F Evouna Ondo, A Fajardo, R Fernandez, A Ferrer, M Fontes, M Galatowitsch, G González, F Gottschall, P Grace, E Granda, H Griffiths, M Lara, M Hasegawa, M Hefting, N Hinko-Najera, L Hutley, J Jones, A Kahl, M Karan, J Keuskamp, T Lardner, M Liddell, Craig Macfarlane, C Macinnis-Ng, R Mariano, M MGéndez, W Meyer, A Mori, A Souza de Moura, M Northwood, R Ogaya, R Oliveira, A Orgiazzi, J Pardo, G Peguero, J Penuelas, L Perez, J Posada, Cecilia M Prada, T Přívětivý, S Prober, J Prunier, G Quansah, V Resco de Dios, R Richter, M Robertson, L F Rocha, M A. Rúa, C Sarmiento, R Silberstein, M Silva, F Siqueira, M Stillwagon, J Stol, M Taylor, F Teste, D Tng, D Tucker, M Türke, M Ulyshen, O Valverde-Barrantes, E van den Berg,

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  100. Meisner A+, Snoek BL, Nesme J, Dent E\*\*, Jaquoid S, Classen AT, Prime A (2021) Soil microbial legacies differ following drying-rewetting and freezing-thawing cycles. *ISME* 15:1207–1221 10.1038/s41396-020-00844-3
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4. [Classen AT](#), Langley JA (2005) Data-model integration is not magic. *New Phytologist* 166:367-369.
3. Hart SC, [Classen AT](#), Wright RJ (2005) Long-term interval burning alters fine root and mycorrhizal dynamics in a ponderosa pine forest. *Journal of Applied Ecology* 42:752-761.
2. [Classen AT](#), Boyle SI, Haskins KE, Overby ST, Hart SC (2003) Community-level physiological profiles of bacteria and fungi: plate type and incubation temperature influences on contrasting soils. *FEMS Microbiological Ecology* 44:319-328.
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#### EDITORIALS, BOOK REVIEWS & REPORTS

15. [Classen AT](#), Inouye BD (2019) Editorial. *Ecological Monographs* 89 (1):1.
14. [Classen AT](#) (2018) Taking on the intimidating task of mycorrhizal biogeography (Book Review: *Biogeography of Mycorrhizal Symbiosis* by Leho Tedersoo). *Frontiers of Biogeography* 10.1-2, e39077.
13. [Classen AT](#), Inouye BD (2018) Editorial. *Ecological Monographs* 88(1):3.
12. Niu S, [Classen AT](#), Luo Y (2018) Functional traits along a transect. *Functional Ecology* 32:4-9.
11. [Classen AT](#), Inouye BD (2017) Editorial. *Ecological Monographs* 87(1):3.
10. [Classen AT](#) (2016) Editorial. *Ecological Monographs* 86(1):2-3.
9. Ellison AM, [Classen AT](#) (2015) Editorial. *Ecological Monographs* 85(1):1-2.
8. Dukes JS, [Classen AT](#), Wan S, Langley JA (2014) Using results from global change experiments to inform land model development and calibration. *New Phytologist* 204:3.
7. Ellison AM, [Classen AT](#), Baldwin JD (2014) Editorial. *Ecological Monographs* 84:1-2.
6. Pett-Ridge et al. (2014) Research for Sustainable Bioenergy Workshop: Linking genomic and ecosystem sciences. Workshop report. The US Department of Energy.
5. Schimel D, Strong DR, Ellison AM, Peters DPC, Silver S, Johnson EA, Belnap J, [Classen AT](#), Essington TE, Finley AO, Inouye BD, Stanley EH (2014) Editors are editors, not oracles. *Bulletin of the Ecological Society of America* 95:342–346.
4. [Classen AT](#) (2011) Aboveground-belowground interactions in a changing world (Book review: Aboveground-belowground linkages: biotic interactions, ecosystem processes, and global change). Richard D. Bardgett and David A. Wardle. *Ecology* 92:1189–1190.
3. Hanson PJ, [Classen AT](#), Kueppers L, Luo Y, McDowell NG, Morris J, Rogers A, Thorton P, Ceulemans R, Dukes J, Goulden M, Jackson R, Knapp A, Kirschbaum M, Lewin K, MacCracken M, Melillo J, Ringler T (2008) Ecosystem research: Understanding climate change impacts on ecosystems and feedbacks to the physical climate. Report of the workshop on “Exploring

Science Needs for the Next Generation of Climate Change and Elevated CO<sub>2</sub> Experiments in Terrestrial Ecosystems” The Department of Energy.

2. Schadt CW, Classen AT (2007) Book review: Soil Microbiology, Ecology, and Biochemistry. Eldor A. Paul, editor. *Soil Science Society of America Journal* 71:1420.
  1. Classen AT (2006) Will herbivore range expansions exacerbate the effects of global climate change on soil microclimate? *CSA News* 51:1.
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## TEACHING

### UNIVERSITY OF MICHIGAN

Senior Ecology & Evolutionary Biology capstone class, BS, Fall 2022, Spring 2024, Spring 2025

Undergraduate Research, BS, 2022, 2023, 2024

Junior/Senior Seminar

### UNIVERSITY OF VERMONT

Junior/ Senior seminar, BA/BS, 2020

Ecosystem Ecology, BA/BS/MS/PhD, 2018-20

Research in Ecology, BA/BS, 2019-20

Ecology, Ecosystems, and Environment (BA/BS), 2017-20

### UNIVERSITY OF COPENHAGEN

Climate Change Impacts Adaptation and Mitigation, 2015-16

Climate change and biodiversity, co-taught, MS/BS, 2015-16

Plant-herbivore interactions, co-taught, MS, 2014-15

Nature management, co-taught, MS, 2014-15

### UNIVERSITY OF TENNESSEE

Ecosystem ecology laboratory, BS, 2010-14

General ecology, BS, 2009-14

Ecosystem ecology, BS, 2008-14

Ecology & global change seminar, BS, 2008-14

Graduate Independent study, MS/PhD, 2008-14

Undergraduate research, BS, 2008-14

Undergraduate independent study, BS, 2008-14

Advanced ecology, co-taught, MS/PhD, 2010-13

Ecology & evolutionary biology seminar, MS/PhD, 2005-14

Mycorrhizal ecology, BS, 2005-14

Graduate seminar on writing, MS/PhD, 2005-14

Science Education, Reading & Discussion seminar, PhD, 2009-10

Undergraduate independent study, BS, 2008-14

Advanced ecosystem ecology, BS, 2011

Introduction to faculty research, MS/PhD, 2008-09

### INTERNATIONAL & EXTERNAL COURSES

Microbiomes and Global Change. University of California, Irvine, 2019

Soil Ecology and Planetary Boundaries, Wageningen University, The Netherlands, 2016

Science writing and editing, Aarhus University, Denmark, 2015

Communicating science, Estonian University of Life Sciences, Estonia, 2015

Communicating science, Hunan, China, 2014

Global change and biogeography, Peking University, China, 2013

Coupled natural and human systems in a changing world Honors Class, Costa Rica, 2013

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## SELECTED NATIONAL/INTERNATIONAL GRANTS & AWARDS TO ADVISEES

*Garden Club of America*: Mary T. Carothers Summer Environmental Studies Scholarship, P. Falb, BS, 2024, 2023

*Fulbright Scholar*: E. Waldron, BS Mount Holyoke College, 2024; Kenna Rewcastle, BS, 2016

*Fulbright Scholar honorable mention*: K. Rewcastle, BS, 2015

*National Science Foundation Graduate Research Fellowship Program*: MS, E O'Brien, 2020; BS, K. Rewcastle, 2017; BS K. Connell, 2017; BS, A. Pennyworth, 2015; BS, L. Breza, 2013; PhD, L. Moorhead, 2012; PhD, E. Austin, 2007

*National Science Foundation Graduate Research Fellowship Program honorable mention*: PhD, O. Vought, 2020; PhD, J. Moore, 2011, 2010; PhD, E. Austin, 2006

*US National Science Foundation post-doctoral fellowship*: E. Meineke, 2017

*Marie-Curie Post-doctoral fellowship*: D. Hewins, 2016, declined

*Sigma Xi grant in aid of research*: K. Rewcastle, BS, 2014; S. Wood, BS, 2013;

*US National Science Foundation GROW fellowship*: L. Moorhead, PhD, 2014

*US National Science Foundation EAPSI fellowship*: J. Henning, PhD, 2014

*US Department of Energy Marvin L. Wesley Award*: M. Cregger, PhD, 2012; C. Iversen, PhD, 2008

*American Association of University Women fellow*: L. Souza, post-doc, 2011

*US Department of Defense, SMART fellow*: M. Cregger, PhD, declined

*US Department of Energy GREF fellowship*: M Cregger, PhD, 2008; C. Iversen, PhD

*US National Science Foundation Dissertation Improvement Grant*: C. Iversen, PhD, 2007

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## ADVISEES

### Current GRADUATE STUDENTS

Brenda Hernández, PhD (2024-)

Aadia Moseley-Mccloud, MS (2023-)

Madeleine Gellinger, PhD (2023-)

Barryette Oberholzer, PhD, SLU, Umeå, Sweden (2022-), co-advised Paul Kardol

Kohsuke Tanigawa, PhD, SLU, Umeå, Sweden, co-advised Paul Kardol

Olivia Vought, PhD (2021-)

Indira León, PhD, Victoria University of Wellington, NZ (2021-), co-advised with Julie Deslippe

Jim Den Uyl, PhD, Victoria University of Wellington, NZ (2020-), co-advised with Julie Deslippe

### FORMER GRADUATE STUDENTS [ITALICS = CURRENT INSTITUTION]

Brenda Hernández (MS 2024) *PhD Student at UMich*

Sorrel Hartford (MS 2023)

Elizabeth O'Brien (MS 2023) *Consultant, Climate Risk Modeling*

Kenna Rewcastle (PhD 2021) *Scientist, EPA Office of Air & Radiation, Climate Policy Branch*

Justyna Giejstowt (PhD 2019) *Senior Ecologist and Botanist, Wildlands Consulting, New Zealand*

Ji "Sonamkyi" Suonan (PhD 2017) *Associate Professor, Qinghai Normal University*

Jeremiah Henning (PhD 2017) *Assistant Professor, University of South Alabama*

Leigh Moorhead (PhD 2017) *United States Environmental Protection Agency*

Elizabeth Dent (MS 2017)

Jessica Moore (PhD 2016) *Lecturer, University of Tennessee*

Aurelija Petkevičienė (MS 2015) *Regulatory Affairs Specialist Baltics, Bayer*

Emily Austin (PhD 2013) *Data Scientist, New Hampshire, Department of Health & Human Services*

Melissa Cregger (PhD 2012) *Senior Staff scientist, Oak Ridge National Laboratory*



Colleen Iversen (PhD 2008) *Senior Staff scientist, Oak Ridge National Laboratory*

**GRADUATE STUDENT - ROTATIONS, EXTERNAL COMMITTEE MEMBER, EXAMINER** [*year graduated*]

McKenzie Smith, PhD, Tulane, New Orleans, Louisiana (2022-present)

Evan Perkowski, PhD Texas Tech University, Lubbock, Texas (2023)

Sydne Spinella, MS University of Texas El Paso, Texas (2022)

Fiona Jevon, PhD Dartmouth College, New Hampshire (2020)

Julia Kemppinen, PhD University of Helsinki, Finland (2020)

Pernilla Borgström, PhD Swedish University of Agricultural Sciences, Sweden (2017)

Kirk Barnett, PhD Western Sydney University, Australia (2017)

Gesche Blume-Werry, PhD Umeå University, Sweden (2016)

Nathaly Guerrero Ramirez, PhD iDiv, Germany (2016)

Anna Stern Gren, PhD Lund University, Sweden (2014)

Erin Cameron, PhD University of Alberta, Canada (2013)

Christopher Habeck, PhD University of Wisconsin (2009)

Shannon Pelini, PhD Notre Dame, Indiana (2008)

**GRADUATE STUDENT COMMITTEE MEMBER** [*current or year graduated*]

Hitaishi Desai, PhD Michigan SEAS (2024-)

Quinn Moon Michigan EEB (2024-)

Julia Eckberg, PhD Michigan EEB (2022-)

Grace Zhang, PhD Michigan EEB (2021-)

Samuel Schaffer-Morrison, PhD Michigan EEB (2020-)

Rosaura Chapina, PhD UVM Rubenstein (2019-)

Jennifer Wen, MS Michigan, SEAS (2022)

Lindsey Pett, PhD UVM Biology (2022)

Natalia Aristizabal, PhD UVM Rubenstein (2024)

Amanda Northrop, PhD UVM Biology, committee chair (2020)

Carla Brenda Maldonado Goyzueta, PhD, University of Copenhagen (2016)

University of Tennessee, 2016-18: Quentin Read, PhD; Lacy Chick, PhD; Sara Kuebbing, PhD; Rafael Zenni, PhD; Jeremy Chandler, PhD Micro; Melissa Burt, MS; Denise Kendall, PhD; Katie Stuble, PhD; Noelia Barrios, PhD; Amanda Alison, MS; Keith Post, PhD; Emmi Felker-Quinn, PhD; Joe Huges, PhD; Jarrod Blue, MS; Greg Crutsinger, PhD; Lara Souza, PhD; Windy Bunn, MS; Martin Nuñez, PhD

**POSTDOCTORAL FELLOWS** [*italics = current institution*]

Rose Brinkhoff, 2022-

Alison Bressler, 2022-23, *Water Center at the Graham Sustainability Institute*

Melissa Pastore, 2020-23, *US Forest Service, Minneapolis, Minnesota*

Kenna Rewcastle, 2021-22, *US Environmental Protection Agency, Washington, DC*

Case Prager, 2017-21, *US Department of State, Washington DC*

Xin Jing, 2017-21, *Assistant Professor, Lanzhou University, China*

Annelein Meisner, 2014-19, *Scientist MicrobiomeSupport, Netherlands*

Emily Meineke, 2017-18, *Assistant Professor, University of California, Davis*

Erin Cameron, 2015-18, *Assistant Professor, Saint Mary's University, Nova Scotia, Canada*

Daan Blok, 2015-18, *Policy Officer, Netherlands Polar Research Program, Netherlands*

Maja Sundqvist, 2014-17, *Assistant Professor, SLU, Sweden*

Jiang Jiang, Professor, 2012-15, *Professor, Nanjing Forestry University, China*

Emily Moran, 2010-12, *Associate Professor, University of California, Merced*

Lara Souza, 2009-12, *Associate Professor, University of Oklahoma*

Marie-Anne de Graaff, 2008-10, *Professor, Boise State University, Idaho*

Paul Kardol, 2007-09, *Associate Professor, SLU, Sweden*

Hector Castro, 2006-08, *Research Associate, University of Tennessee*

## VISITING RESEARCHERS [*italics* = affiliated institution]

April Bermudez, 2021-22, *NSF Post-Bac, Rocky Mountain Biological Laboratory*

Cancan Zhao, 2018-19, *Henan University, China*

M. Noelia Barrios Garcia Moar, 2018, *Fulbright Fellow, Conicet, Argentina*

Mariano Rodriguez-Cabal, 2018, *Fulbright Fellow, Conicet, Argentina*

Wenting Feng, Scientist, 2018, *Chinese Academy of Agricultural Sciences, Beijing, China*

Xin Jing, 2016 & 2017, *Peking University, China*

Laura Steffy, 2016, *Primary School Teacher, Texas*

Katarzyna Koszela, 2015-16, post-doc, *University of Silesia, Poland*

Qiong Zhao, 2015, *Institute of Applied Ecology at the Chinese Academy of Sciences, China*

Leslie Smith, 2012-13, *Your Ocean Consulting, LLC, USA*

George Byrd, 2007-08, *Ferrum College, Virginia*

Xiongwen Chen, 2007, *Alabama A&M University, Alabama*

## UNDERGRADUATE STUDENT ADVISING & MENTORING

**CURRENT HONORS STUDENTS:** Anna Wooten (EEB, UMich), Peter Falb (EEB, UMich), Kate Fitzsimmons (Chem, UMich)

**FORMER HONORS STUDENTS: 2023-24:** Joanna Livingston (EEB, reader, UMich), Nick Hyslop (PiTE, reader, UMich), Annie Cress (EEB, reader, UMich). **2022:** Samantha King (SEAS, reader, UMich), Eva Schwartz (EEB, reader, UMich). **2018-21:** Olivia Vought (Rubenstein, UVM), Laura Pinover (Rubenstein, committee, UVM), Gordon Coates (Rubenstein, committee, UVM), Julia Pupko (Rubenstein, committee, UVM), Colleen Yancey (Chair, Biology, UVM)

**FORMER UNDERGRADUATE & HIGH SCHOOL STUDENT COLLABORATORS: 2024:** Benjamin Barney (Columbia University), Ada LaTarte (St. Paul Academy, Minnesota). **2023:** Noah Manuszak (UMich), Zoraya Piedra (Webster University), Emma Waldron (Mt. Holyoke College). **2022-23:** Christopher Twig (UMich), Marlana Peek (UMich). **2021-23:** Ariel Lindholm (UMich). **2021-22:** Julia Klinkman (UMich, UROP), Sophia Arbani (UMich), Lily MacKrell (UMich). **2021:** April Bermudez (UC Riverside), Paola Cruz-Martinez (Purchase College)

**2014-21:** Olivia Vought (UVM); Siobhan Calhoun (University of Pennsylvania); Bailey Sharon (Western State); Ashley Silver (University of Toledo); Alex Linter (Pomona College); Rowan Pannier (UVM); Finn Quan-Shau (UVM); Olivia Vought (UVM); Carri Finkelstein (UVM); Allyssa McCutcheon (UVM); Gordon Coates (UVM); Laura Pinover (UVM); Joscie Norris (UVM); Nichole Crothers (UVM); Karin Rand (UVM, BIO); Natalie Elizabeth Bingham (UVM); Zoe Albion, Allie Pankoff, Calla Sopko, Maya Dizack, Anna Malvin (UVM); Tom DeMouth (UVM); Caitlin Gosciminski (UVM); Rowan Pannier (Crested Butte High School, CO); Raina Fitzpatrick (Haverford College/RMBL); Ben Miller (UT); Brennan Flanagan (UT); Silvia Iradukunda (UT); Sarah Ottinger (UT); Helen Law (UT); Wyatt Arnold (University of Chicago); Magnus Heide Andreasen (KU)

**2009-15:** Peter Meidl (UT); Monique Garrett (Humboldt State); Kenna Rewcastle (UT/KU); Sara La Haie (UT); Sneha Patel (UT); Kent Cornell (UT); Nick Hendershot (UT); Brandy Pieper (UT); Nora Dunkirk (UT); Jaime Call (UT); Su'ad Yoon (UT/RMBL); Raina Fitzpatrick (West High School TN); Sarah Wood (UT); Kelsey Richesin (UT); Kelly Giro (UT); Alaina Marinello (UT); Corinne Calhoun (Pomona College); Courtney Patterson (UT); Matthew Floyd (UT); Katie Sloop (UT); Heather Tran (UT); Amanda Oaks (UT); Katie Park (Maryville University); Minh Tran (Emory); M Stephanie Jensen (UT); Gordon Robinson (UT); Danny Lusk (UT); Matt Olive (UT); Phoebe Wright (UT); Lauren Breza (UT); Jackie Aareson (UT); Tander Simberloff (Smith College); Alix Pfennigwerth (UT); Laura Marsh (UT); Tander Simberloff (West High School TN); Anna Proffitt (UT)

**2005-08:** John Bevans (University of Tampa); Kelly Rula (Bowdoin College); Elizabeth Ferguson (UT); Gloria Jimenez (Carleton College); Vanessa Garcia (Cal State, Fresno); Caitlin Guthrie (Pomona College); Jennifer Burks (Earlham College); Emily Austin (Hampshire College); Emmi Felker-Quinn

(Smith College); Melissa Habenicht (UT); Zach Kiershmann (UT); Sarah Kortebein (Farragut High School TN); Onike Mnzawa (UT); Sharon Gray (U of Illinois); Emily Mitchell (Oak Ridge High School TN); Rebecca Roha (Gettysburg College); Marlene Tyner (U of Michigan); Luke Zachmann (U of Minnesota, Morris); Katherine Sides (Northern Arizona University); Katrina Cox (Pellissippi Community College); Kerri Crawford (UT); Caroline DeVan (UT); Sam Freyaldenhoven (Hendrix College)

**UNDERGRADUATE ACADEMIC ADVISEES (UNIVERSITY OF VERMONT & UNIVERSITY OF TENNESSEE):**

**2016-20:** 185 Environmental Science/Parks, Recreation & Tourism/Natural Resources majors

**2010-16:** P. Meidl; K. Rewcastle; C. Thomas; C. Blanks; S. Wood; B. Williams; C. Murphy; C. Grabstein; B. Moreno; J. Carney; C. Whitt; M. Hayes; S. Rhodes; L. Barlow; K. Richesin; A. Pfennigwerth; M. Sullivan; M. Olive; C. Caponet; G. Bragg; P. Wright