

CV Aimée T. Classen

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Education

- 2004 PhD, Biology, Northern Arizona University, Arizona, USA
1995 BA, Biological Science, Smith College, Massachusetts, USA

Appointments

- 2020- Director, University of Michigan Biological Station, USA
Professor, Ecology & Evolutionary Biology, University of Michigan, USA
Affiliate, Gund Institute for Environment, University of Vermont, USA
- 2016- Adjunct Professor, Victoria University of Wellington, New Zealand
- 2020- Adjunct Professor, Rubenstein School, University of Vermont, USA
- 2018-2020 Professor, Rubenstein School, University of Vermont, USA
Director, George D. Aiken Forestry Sciences Laboratory, University of Vermont, USA
Fellow, Gund Institute for Environment, University of Vermont, USA
Adjunct Professor, Department of Biology, University of Vermont, USA
- 2014-2020 Faculty, Center for Macroecology, Evolution and Climate, University of Copenhagen, Denmark
- 2017-2018 Interim Natural Resources Program Director, Rubenstein School, University of Vermont, USA
Associate Professor, Rubenstein School, University of Vermont, USA
- 2014-2018 Associate Professor, Natural History Museum, University of Copenhagen, Denmark
- 2015-2018 Adjunct Associate Professor, University of Tennessee, USA
- 2012-2015 Associate Professor, Department of Ecology and Evolutionary Biology, University of Tennessee, USA
- 2008-2012 Assistant Professor, Department of Ecology and Evolutionary Biology, University of Tennessee, USA
- 2005-2008 Staff Scientist, Oak Ridge National Laboratory, Tennessee, USA
- 2005 Postdoctoral Fellow, Oak Ridge National Laboratory, Tennessee, USA

Editorial, Non-profit board, Scientific advisory appointment

- 2018-now The Royal Netherlands Academy of Arts and Sciences, International science advisory board, Netherlands Institute of Ecology (NIOO-KNAW)
- 2016-2022 Editor-in-Chief, *Ecological Monographs*
- 2011-2022 Editorial board *Ecology & Ecological Monographs*
- 2021-2022 Guest Editorial Committee member, *Annual Reviews of Ecology, Evolution, and Systematics*

- 2016-2022 Board of Trustees, Rocky Mountain Biological Laboratory, Colorado, USA
- 2017-2018 Guest Editor for a Special Issue, *Functional Ecology*
- 2012-2016 Associate Editor-in-Chief, *Ecological Monographs*
Editorial Board, *Ecology Letters*
- 2014-2016 Associate Editor, *Journal of Plant Ecology*
- 2012 Guest Editor, *Ecosphere*

Other appointments

- 2017-2020 Affiliated Faculty, Quantitative and Evolutionary STEM Training (QuEST) Program, University of Vermont, USA
- 2017-2020 Affiliated Faculty, Food Systems Graduate Program, University of Vermont, USA
- 2014-2015 Visiting Associate Professor, Hawkesbury Institute for the Environment, University of Western Sydney, Australia
- 2011-2014 Faculty, Initiative for Quaternary Paleoclimate Research, University of Tennessee, USA
- 2011-2013 Faculty, Bredesen Center for Interdisciplinary Research and Graduate Education, University of Tennessee, USA
- 2009-2010 Visiting Assistant Professor, Department of Biology, University of Copenhagen, Denmark
- 2005-2008 Research Assistant Professor, University of Tennessee, USA
- 2003-2004 American Association of University Women (AAUW) American Fellow
- 1995-1999 Middle school science teacher (in CA & MA) and laboratory technician (Stanford University & University of CA, Berkeley)

Leave

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

Selected awards

- 2020 Fellow, Ecological Society of America
- 2015 Association for Women Soil Scientists Mentoring Award to recognize individuals (male or female) who have made significant contributions to the education, professional growth, & achievement of females in soil science
- 2014 Promising young scholar, The US National Academy of Sciences, Frontiers in Science
- 2013 UT Chancellor's Excellence in Teaching Award Nomination & Finalist
- 2012 UT College of Arts and Sciences Research and Creative Achievement Award
Pi Beta Phi teaching award
- 2011 UT Chancellor's Excellence in Teaching Award Nomination & Finalist
UT Chancellor's Excellence in Graduate Advising and Mentoring Award Nomination

- 2010 UT College of Arts and Sciences Faculty Research Award Nomination
- 2007 Promising young scholar, The US National Academy of Sciences Frontiers in Science
Kavli Foundation Science Fellow
Best paper, Soil Science Society of America S-7
- 2006 US Department of Energy Outstanding Mentor Award
- 2002-2003 Merriam-Powell Center for Environmental Research Graduate Fellow
- 2003 Best student presentation, honorable mention, Soil Ecology Society Meetings
- 2002 Best paper, Soil Science Society of America S-7
- 1995 Sigma Xi
Smith College Brown Botany Prize
- 1991-1993 NCAA All-American (swimming)

Research funding

pending funding

- 2022-2025 Winter flooding shifts watershed hydro-biogeochemical function and export. The US Department of Energy. 1,000,000; CO-PI
- 2022-2027 BII: Forests on Edge - BII: Forests on Edge - Cell to ecosystem responses to compounding disturbances in a changing climate. The US National Science Foundation; 12,499,948 USD; Senior Personnel
- 2022-2027 AccelNet: MICROBENet^Net: Multi-Institute Collaborative Research On plant microBiomEs Network of Networks The US National Science Foundation; 1,999,494 USD (25,032 USD to UMich); Co-PI

current funding

- 2021-2024 The potential for advanced snowmelt timing to decouple plant and mycorrhizal fungal phenology and biogeochemical cycling; The US Department of Energy; 897,998 (plus allocation to LBL, total = 999,698) USD; Co-PI
- 2021-2024 Changing climate and biodiversity in mountains: understanding the interactive effects of warming, species extinctions and invasions on ecosystem function; Marsden Fund; Royal Society Te Apārangi; New Zealand; 960000 NZD; Co-PI
- 2021-2024 Collaborative Research: Understanding How Students' Sense of Belonging Develops During Undergraduate Field Experiences: Supports, Barriers, and Implications for Faculty; The US National Science Foundation; 68,875 USD; Host PI
- 2020-2024 The impact of competition on plant-mycorrhizal associations in a warmer Arctic; The Swedish Scientific Research Council; 4,340,000 SEK; Co-PI
- 2020-2025 LTREB: Phenological responsiveness of plants and bees: consequences for species, interactions, community composition and biomass. The US National Science Foundation; 741,187 USD; Co-PI

- 2021 REP supplemental for LTREB: Phenological responsiveness of plants and bees: consequences for species, interactions, community composition and biomass. The US National Science Foundation; 54,570 USD; PI
- 2020–2021 Gund Institute Catalyst Award: Low cost & high frequency quantification of soil nutrients in ecosystems undergoing rapid global change; 50,000 USD; PI
- 2019-2023 RII Track-2 FEC: Leveraging Intelligent Informatics and Smart Data for Improved Understanding of Northern Forest Ecosystem Resiliency (INSPIRES); The US National Science Foundation; 3,000,000 USD; Co-PI
- 2019-2024 The State of Carbon in Northeast Forests – creating an Integrated Soil Carbon (iSoC) inventory to explore and understand what drives variation in soil carbon across scales and with management; McIntire-Stennis, University of Vermont; 512,352 USD; Co-PI
- prior funding*
- 2020 Exploring soil organic matter dynamics in a warming world using an array of warming experiments and soil models; Environmental Molecular Science Laboratory (EMSL) Exploratory Research proposal; 52,834 USD; PI
- 2019-2020 LTREB: Phenological responsiveness of plants and bees: consequences for species, interactions, community composition and productivity; The US National Science Foundation; 171,416 USD; Co-PI
- 2018-2020 Functional Ecology of Alpine Systems. Natural Environment Research Council (NERC) UK; a global network; 80,905 GBP; collaborative partner
- 2019 Acquisition of an ICP-OES for a multiuser facility; The United States Department of Agriculture; 49,975 USD; Co-PI
- 2017-2019 Gund Institute Catalyst Award: Catalyzing research, scholarship, and teaching in montane systems, Vermont, USA; 46,538 USD; Co-PI
- 2016-2018 The Future of Our Taonga Tipu. Ministry of Business Innovation and Employment's Te Pūnaha Hihiko Fund, New Zealand; 100,000 NZD; Co-PI
- 2013-2018 Incorporating rhizosphere interactions and soil physical properties into a soil carbon degradation model through experimenting across ecotypes. The Department of Energy Terrestrial Ecosystem Science Program; 988,039 USD; PI
- 2017 Automatic Detection of Arctic Microarthropods (ADAM) Climate Impacts Research Centre (CIRC), Sweden; 50,000 SEK; Co-PI
- 2010-2017 Research Coordination Network: Integrated Network for Terrestrial Ecosystem Research on Feedbacks to the Atmosphere and Climate (INTERFACE). The US National Science Foundation; 500,000 USD; Co-PI
- 2015-2016 Bog extension: Incorporating rhizosphere interactions and soil physical properties into a soil carbon degradation model through experimenting across ecotypes. The Department of Energy Terrestrial Ecosystem Science Program; 23,105 USD; PI
- 2015 Request for a gas exchange cluster to explore climate change impacts on montane ecosystems around the world; Carlsberg Foundation; 360,000 DKK; PI
- Alpine plant-fungal interactions under shrub encroachment and their role in ecosystem carbon turnover; IK lykkes fond Norway; 20,000 NOK; Co-PI

2014-2015 Hawkesbury Institute for the Environment Research Exchange Program (inbound). 9,964 AUD; PI

2013-2015 Applying methods for the study of plant-microbe interactions. Oak Ridge National Laboratory; 44,475 USD; PI

2013-2014 Initiative for Quaternary Paleoclimate Research. The University of Tennessee; 40,000 USD; Co-PI

2013 Incorporating rhizosphere interactions and soil physical properties into a soil carbon degradation model. Joint Directive Research and Development. 55,000 USD; PI
Technology to improve ecology labs and curriculum at UT. 85,000 USD; Co-PI

2012-2013 Initiative for Quaternary Paleoclimate Research. The University of Tennessee; 55,000 USD; Co-PI
Incorporating microbial dynamics that alter soil carbon fluxes into terrestrial carbon cycle models. Joint Directive Research and Development. 47,846 USD; PI

2011-2012 Assessment of microbial communities associated with wood decomposition. Oak Ridge National Laboratory. 192,298 USD; PI
Initiative for Quaternary Paleoclimate Research. The University of Tennessee; 51,600 USD; Co-PI

2011 Understanding the links among microbial community composition and function and soil processes. Microbiology across Campuses Educational and Research Venture; 10,000 USD; PI

2010 Combining molecular biology with ecology to determine the genetic and environmental constraints to primary productivity. Joint Directive Research and Development; 64,940 USD; PI
Bridging the gaps in soil carbon and nitrogen cycling: microbes as predictors of global climate change? Microbiology across Campuses Educational and Research Venture; 21,315 USD; PI
Assessment of microbial communities associated with *Populus*. Oak Ridge National Laboratory; 56,113 USD; PI

2009 Developing a systems biology approach for linking genetic and environmental constraints to primary productivity – can patterns scale to the field? Joint Directive Research and Development; 63,000 USD; PI

2006-2009 Community and ecosystem response to global change: interactive effects of atmospheric carbon dioxide, surface temperatures, and soil moisture. The Department of Energy, Program for Ecosystem Research; 1,700,000 USD; PI

2006-2008 Disentangling soil respiration using genomic techniques. Oak Ridge National Laboratory LDRD; 655,000 USD; PI

2008-2009 Carbon drivers of the microbe-switchgrass rhizosphere interface. Oak Ridge National Laboratory LDRD; 750,000 USD; Co-PI

2007-2009 Implications of enhanced fine-root production in the Oak Ridge FACE experiment. The Department of Energy Terrestrial Carbon Program; 1,200,000 USD; Co-PI

- 2006 Does genetic diversity within species influence ecosystem nutrient cycling? Oak Ridge National Laboratory SEED; 20,000 USD; PI
- 2005-2006 Responses to elevated CO₂ in a closed canopy deciduous forest. The Department of Energy Terrestrial Carbon Program; 597,444 USD; Co-PI

Teaching

- 2020 Junior/ Senior seminar (BA/BS)
- 2018-2020 Ecosystem Ecology (BA/BS/MS/PhD)
- 2019-2020 Research in Ecology (BA/BS)
- 2017-2020 Ecology, Ecosystems, and Environment (BA/BS)
- 2015-2016 Climate change and biodiversity (co-taught, MS/BS)
Climate change (co-taught, MS)
- 2014-2015 Plant-herbivore interactions (co-taught, MS)
Nature management (co-taught, MS)
- 2010-2014 Ecosystem ecology laboratory (BS)
- 2009-2014 General ecology (BS)
- 2008-2014 Ecosystem ecology (BS)
Ecology & global change seminar (BS)
Graduate Independent study (MS/PhD)
Undergraduate research (BS)
Undergraduate independent study (BS)
- 2010-2013 Advanced ecology (co-taught, MS/PhD)
- 2005-2014 Ecology & evolutionary biology seminar (MS/PhD)
Mycorrhizal ecology (BS)
Graduate seminar on writing (MS/PhD)
- 2009-2010 Science Education, Reading & Discussion seminar (PhD)
- 2008-2014 Undergraduate independent study (BS)
- 2011 Advanced ecosystem ecology (BS)
- 2008-2009 Introduction to faculty research (MS/PhD)
- International & external courses
- 2019 Microbiomes and Global Change. University of California, Irvine USA (PhD, postdoc)
- 2016 Climate Change Impacts Adaptation and Mitigation, University of Copenhagen (co-taught, MS)
Soil Ecology and Planetary Boundaries, Wageningen University (PhD)
- 2015 Science writing and editing, Aarhus University (MS/PhD)
Communicating science, Estonian University of Life Sciences (MS/PhD)

- 2014 Communicating science, Hunan, China (MS/PhD)
- 2013 Global change and biogeography, Peking University, China (MS/PhD)
- Coupled natural and human systems in a changing world, Costa Rica (Honors, BA)

Selected invited talks or seminars

- 2021 Michigan State, USA
Kellogg Biological Station, USA
Cornell University, USA
Stoichiometry in Symbiosis Workshop, Ohio State University, USA
- 2020 American Geophysical Union, USA
Jack and Pat Bryan Distinguished Lecture keynote, Syracuse University, USA
American Society for Microbiology (ASM, *plenary speaker*), USA (postponed)
University of Houston, USA (postponed)
Cornell University, USA (postponed)
- 2019 University of Michigan, EEB, USA
University of Michigan, SEAS, USA
Texas Tech University, USA
University of Lincoln, Lincoln, UK
Holden Arboretum, Cleveland, USA
McGill University, Montreal, Canada
- 2018 Concordia University, Canada
American Society for Microbiology (ASM, *plenary speaker*), USA
Harvard Forest, Harvard University, USA
The University of Vermont, Department of Biology, USA
The University of Michigan, USA
- 2017 INIBIOMA, CONICET, Universidad Nacional del Comahue, Argentina
The Vermont Agency of Natural Resources, USA
Smith College, USA
The 2nd Global Soil Biodiversity Conference (*keynote*), China
The University of New Hampshire, USA
The University of Minnesota, USA
The US Department of Energy TES/SBR meeting (*keynote*) USA
Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden
The University of Vermont, Plant and Soil Sciences Department, USA
Doñana Biological Station, Sevilla, Spain

The Gund Institute, The University of Vermont, USA
The University of Vermont, Plant Biology Department, USA
The University of Massachusetts, Department of Microbiology, USA
2016 The University of Vermont, Rubinstein School of the Environment, USA
New Mexico State University, Department of Plant Sciences, USA
Jornada Long Term Ecological Research Station (ARS), USA
German Centre for Integrative Biodiversity Research (iDiv), Germany
2015 University of Notre Dame, Department of Biology, USA
Natural History Museum of Denmark “Science Gala, Vin & Videnskab”, Denmark
Dartmouth College, Department of Biology, USA
The Villum Foundation, Denmark
Estonian University of Life Sciences, Estonia
Danish Oikos meetings (*keynote*), Denmark
Ecological Society of America meeting Organized Oral Session, USA
Global Network of Long-term Observatories on Mountain Social-Ecological
Systems, USA
2014 Henan University, China
University of Copenhagen, Terrestrial Ecology, Denmark
Rocky Mountain Biological Laboratory, USA
“Geek Week” Crested Butte Colorado Science Festival, USA
Rocky Mountain Biological Laboratory science series, USA
Ecological Society of America Meetings Organized Oral Session, USA
Natural History Museum of Denmark, Evolutionary Genomics Section, Denmark
Center for Macroecology, Evolution and Climate (CMEC), Denmark
British Ecological Society (*keynote*) Conference on Carbon, UK
Lund University, Sweden
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
2012 American Geophysical Union Symposia, USA
Indiana University, USA

Peking University, China
 Swedish University of Agricultural Sciences (SLU), Umeå, Sweden
 Boise State University, Department of Biology, USA
 University of New Mexico, Department of Biology, USA
 University of British Columbia, Canada
 “Geek Week”, Crested Butte Colorado Science Festival, USA
 2011 Imperial College London, Silwood Park, UK
 University of College London, UK
 Developing International Geoarchaeology Conference, Tennessee, USA
 The Ecological Society of America, Symposia, USA
 University of Kentucky, USA
 Scottish Crop Research Institute (SCRI), Scotland
 2010 The Ecological Society of America meeting, Organized Oral Session, USA
 University of Copenhagen, Department of Biology, Denmark
 Netherlands Instituut voor Ecologie (NIOO-KNAW), The Netherlands
 University of Copenhagen, Ecology & Evolutionary Biology, Denmark
 The Naturalist Club of Tennessee, USA
 2009 Department of Energy, Program for Ecosystem Research, USA
 Maryland American Association of University Women Conference, USA
 University of North Carolina, Asheville, USA
 Center for Macroecology and Evolution, Denmark
 Alabama A&M University, USA
 League of Women Voters Knoxville, Tennessee, USA
 2006-2008 Cornell University, USA
 Department of Energy, Biological & Environmental Research, Global Change Education, USA
 University of Tennessee, Knoxville, USA
 Appalachian State University, USA
 Ecological Society of America symposia, USA
 Department of Energy, Program for Ecosystem Research, USA
 EPRECOT workshop on precipitation, Denmark
 Harvard Forest, Harvard University, USA
 2002-2004 University of Notre Dame, USA
 Oak Ridge National Laboratory, USA

Humboldt State University, USA

Redwood Sciences Laboratory, US Forest Service, USA

Selected invited or organized workshops

- 2021 Stoichiometry in Symbiosis Workshop, Ohio State University, USA
- 2020 Tipping the Scales: Strategy And Tactics For Successful Manuscript Submissions, ESA Annual Meeting, USA co-organizer with Nicolas Gotelli
Creating a framework to interpret and model plant and mycorrhizal fungal traits at the global scale, NIMBioS, University of Tennessee, USA
- 2019 The Living Earth Collaborative Parasite workgroup, Washington University, Missouri, USA
- 2018 The Living Earth Collaborative workgroup, Washington University, Missouri, USA
WaRM Warming and species Removals in Mountains workshop, Vermont, USA
Enhancing Long-Term Soil Carbon Sequestration by Ectomycorrhizal Fungi, University of Michigan, Michigan, USA
- 2017 INTERFACE Microbial Carbon Cycling workshop, Vermont, USA
- 2016 WaRM Warming and species Removals in Mountains workshop, Denmark
INTERFACE-Climani workshop on tipping points, Italy
ClimFun Fungal Communities under global change symposia, Denmark
Frontiers in terrestrial climate feedbacks workshop, INTERFACE, USA
- 2015 Climate models revisited —mycorrhizal dynamics, Royal Netherlands Academy, The Netherlands
Tropical Plant Collections: Legacies from the past?, Royal Danish Academy of Sciences, Denmark
Ecological Society of America Organized Oral Session, USA
American Geophysical Union, Symposia on data-model fusion, USA
Global Network of Long-term Observatories on Mountain Social Ecological Systems, USA
- 2014 Using results from global change experiments to inform land model development, China
The National Academy of Sciences Frontiers of Science and Engineering program, Brazil
Biodiversity and forest management workshop, University of Copenhagen, Denmark
- 2013 The Department of Energy's workshop on Research for Sustainable Bioenergy, USA
Scaling across space and time, Czech Republic
- 2012 Understanding Biodiversity and Climate Change, German Academic Exchange Service, Germany

- National Socio-Environmental Synthesis Center (SESYNC), workshop, University of Michigan, USA
- 2011 Nutrient constraints on the net carbon balance, Iceland
How Do We Improve Earth System Models?, USA
National Institute for Mathematical and Biological Synthesis – linking plants and soil, USA
- 2010 Oak Ridge National Laboratory, Laboratory Directed Research and Development Initiative, USA
- 2009 Department of Energy & National Science Foundation, long-term global change experiments, USA
Optimizing soil process representations in climate models. Oak Ridge, Tennessee, USA
- 2008 Department of Energy, The Next Generation of Climatic Change Experiments, USA
NSF ADVANCE, Women Evolving Biological Sciences (WEBS), USA
- 2006 National Academy of Science, Kavli Frontiers of Science, USA
Ecological Society of America Symposia, data-model integration, USA
Effects of precipitation change on terrestrial ecosystems, Denmark
How to succeed in ecology, Ecological Society of America, USA
- 2005 Terrestrial Ecosystem Response to Atmosphere and Climate Change, USA
European Geophysical Union, symposia on neutrons in science, Austria

Selected national/international grants & awards to advisees

- 2020 US National Science Foundation GRFP fellowship (E. O'Brien, MS)
- 2018 Gund Institute Postdoctoral Fellowship (E. Meineke, declined)
- 2017 US National Science Foundation GRFP fellowship (K. Rewcastle, BS)
US National Science Foundation GRFP fellowship (K. Connell, BS)
US NSF post-doctoral fellowship (E. Meineke)
- 2016 Marie Currie Postdoctoral grant (D. Hewins, declined)
Fulbright scholar (K. Rewcastle, BS)
Yates Fellowship (J. Moore, PhD)
- 2015 US National Science Foundation GRFP fellowship (A. Pheningworth, BS)
Fulbright scholar honorable mention (K. Rewcastle, BS)
- 2014 US National Science Foundation GROW fellowship (L. Moorhead, PhD)
US National Science Foundation EAPSI fellowship (J. Henning, PhD)
Sigma Xi grant in aid of research (K. Rewcastle, BS)
- 2013 Sigma Xi grant in aid of research (S. Wood, BS)

- 2012 US National Science Foundation GRFP fellowship (L. Breza, BS)
Department of Energy Marvin L. Wesely Award (M. Cregger, PhD)
- 2011 US National Science Foundation GRFP fellowship (L. Moorhead, PhD)
American Association of University Women American fellow (L. Souza, post-doc)
- 2010 US National Science Foundation GRFP honorable mention (J. Moore, PhD)
- 2008 US Department of Defense SMART fellowship (M. Cregger, PhD, declined)
Department of Energy Marvin L. Wesely Award (C. Iversen, PhD)
US Department of Energy GREF fellowship (M. Cregger, PhD)
- 2007 US National Science Foundation Dissertation Improvement Grant (C. Iversen, PhD)
US National Science Foundation GRFP fellowship (E. Austin, PhD)
- 2006 US Department of Energy GREF fellowship (C. Iversen, PhD)
US National Science Foundation GRFP honorable mention (E. Austin, BS)

Current graduate students

- 2021- Olivia Vought, PhD, University of Michigan, USA
- 2021- Indira León, PhD, Victoria University of Wellington, NZ, co-advised with Julie Deslippe
- 2021- Sorrel Hartford, MS, University of Michigan, USA
- 2020- Elizabeth O'Brien, MS, University of Michigan, USA
- 2020- Jim Den Uyl, PhD, Victoria University of Wellington, NZ, advised with Julie Deslippe
- 2020- Paulina Murray, PhD, UVM, USA, advised with Carol Adair & Tony D'Amato

Prior graduate students

- 2021 Kenna Rewcastle, PhD, University of Vermont, USA
- 2019 Justyna Giejstowt, PhD Victoria University of Wellington, NZ, advised with Julie Deslippe
- 2018 Emily Piche, MS University of Vermont, USA
- 2017 Ji "Sonamkyi" Suonan, PhD Peking University, China, advised with Jin-Sheng He
- 2017 Jeremiah Henning, PhD University of Tennessee, USA
- 2017 Leigh Moorhead, PhD University of Tennessee, USA
- 2017 Elizabeth Dent, MS, University of Copenhagen, Denmark
- 2016 Jessica Moore, PhD University of Tennessee, USA
- 2015 Aurelija Petkevičienė, MS University of Copenhagen, Denmark
- 2013 Emily Austin, PhD University of Tennessee, USA
- 2012 Melissa Cregger, PhD University of Tennessee, USA

2008 Colleen Iversen, PhD University of Tennessee, USA

External examiner, external committee member & student lab rotations

2022-now McKenzie Smith, Tulane, New Orleans, USA

2022-now Barryette Oberholzer, SLU, Umeå, Sweden

2022-now Kohsuke Tanigawa, SLU, Umeå, Sweden

2020-now Snyder Spinella, MS University of Texas El Paso, USA

2019-now Evan Perkowski, PhD Texas Tech University, USA

2018-2020 Fiona Jevon, PhD Dartmouth College, USA

2020 Julia Kempainen, PhD University of Helsinki, Finland

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

2017 Kirk Barnett, PhD Western Sydney University, Australia

2016 Gesche Blume-Werry, PhD Umeå University, Sweden

Nathaly Guerrero Ramirez, PhD iDiv, Germany

2014 Anna Stern Gren, PhD Lund University, Sweden

2013 Erin Cameron, PhD University of Alberta, Canada

2009 Christopher Habeck, PhD University of Wisconsin, USA

2008 Shannon Pelini, PhD Notre Dame, USA

Service on graduate student committees (current or year graduated)

2021-now Grace Zhang, PhD Michigan EEB

2021-now Jennifer Wen, MS Michigan, SEAS

2020-now Samuel Schaffer-Morrison, PhD Michigan EEB

2019-now Rosaura Chapina, PhD UVM Rubenstein

2018-now Lindsey Pett, PhD UVM Biology

2019-2020 Natalia Aristizabal, PhD UVM Rubenstein

2020 Amanda Northrop, PhD UVM Biology, committee chair

2016 Carla Brenda Maldonado Goyzueta, PhD CPH; Quentin Read, PhD UTK

2015 Lacy Chick, PhD UTK

2014 Sara Kuebbing, PhD UTK; Rafael Zenni, PhD UTK; Jeremy Chandler, PhD Micro UTK

2013 Melissa Burt, MS UTK; Denise Kendall, PhD UTK

2012 Katie Stuble, PhD UTK; Noelia Barrios, PhD UTK; Amanda Alison, MS UTK; Keith Post, PhD UTK; Emmi Felker-Quinn, PhD UTK; Joe Huges, PhD UTK

2010 Jarrod Blue, MS UTK

2009 Greg Crutsinger, PhD UTK

2008 Lara Souza, PhD UTK; Windy Bunn, MS UTK; Martin Nuñez, PhD UTK

Postdoctoral fellows

2020-now Melissa Pastore (UVM)

Previous postdoctoral fellows (& where they are now)

2017-2021 Case Prager, AAAS fellow, Washington DC
2017-2021 Xin Jing, Assistant Professor, Lanzhou University
2014-2019 Annelein Meisner, Scientist MicrobiomeSupport, Netherlands
2017-2018 Emily Meineke, Assistant Professor, University of California, Davis, USA
2015-2018 Erin Cameron, Assistant Professor, Saint Mary's University, Nova Scotia, Canada
2015-2018 Daan Blok, Policy Officer, Netherlands Polar Research Program, Organization for Scientific Research, Netherlands
2014-2017 Maja Sundqvist, Assistant Professor, SLU, Sweden
2012-2015 Jiang Jiang, Assistant Professor, Nanjing Forestry University, China
2010-2012 Emily Moran, Associate Professor Professor, University of California, Merced, USA
2009-2012 Lara Souza, Associate Professor, University of Oklahoma, USA
2008-2010 Marie-Anne de Graaff, Associate Professor, Boise State University, USA
2007-2009 Paul Kardol, Associate Professor, SLU, Sweden
2006-2008 Hector Castro, Research Associate, University of Tennessee, USA

Visiting post-docs, professors & teachers

2020 Ji "Sonamkyi" Suonan, Associate Professor, Qinghai Normal University (postponed, covid)
2018-2019 Cancan Zhao, Lecture of Ecology, Henan University, China
2018 M. Noelia Barrios Garcia Moar, Fulbright Fellow, Investigadora Asistente, Conicet, Argentina
2018 Mariano Rodriguez-Cabal, Fulbright Fellow, Investigadora, Conicet, Argentina
2018 Wenting Feng, Scientist, Chinese Academy of Agricultural Sciences, Beijing, China
2016, 2017 Xin Jing, post-doc, Peking University, China
2016 Laura Steffy, Primary School Teacher, Texas, USA
2015-2016 Katarzyna Koszela, post-doc, University of Silesia, Poland
2015 Qiong Zhao, Associate Professor, Institute of Applied Ecology at the Chinese Academy of Sciences, China
2012-2013 Leslie Smith, Your Ocean Consulting, LLC, USA
2007-2008 George Byrd, Associate Professor, Ferrum College, USA
2007 Xiongwen Chen, Associate Professor, Alabama A&M University, USA

Post-baccalaureate, post-masters researchers

2021-now April Bermudez (NSF Post-Bac)

Undergraduate advising & mentoring

Undergraduate honors thesis

2020-2021 Olivia Vought (Rubenstein, UVM)
2019-2020 Laura Pinover (Rubenstein, UVM)
2019-2020 Gordon Coates (Rubenstein, UVM)
2018-2019 Julia Pupko (Rubenstein, UVM)
2018 Colleen Yancey (Chair, Biology, UVM)

Undergraduate research collaborators, honors students, REUs & high school interns

2021 Julia Klinkman (UMich, UROP), April Bermudez (UC Riverside), Paola Cruz-Martinez (Purchase College)
2020-2021 Olivia Vought (UVM); Siobhan Calhoun (University of Pennsylvania); Bailey Sharon (Western State); Ashley Silver (University of Toledo); Alex Linter (Pomona College)
2018-2020 Rowan Pannier (UVM); Finn Quan-Shau (UVM); Olivia Vought (UVM); Carri Finkelstein (UVM); Allyssa McCutcheon (UVM); Gordon Coates (UVM); Laura Pinover (UVM)
2017-2020 Joscie Norris (UVM)
2019-2020 Nichole Crothers (UVM); Karin Rand (UVM, BIO); Carrie Finkelstein (UVM); Natalie Elizabeth Bingham (UVM)
2019 Zoe Albion, Allie Pankoff, Calla Sopko, Maya Dizack, Anna Malvin (UVM, NR206)
2018 Tom DeMouth (UVM)
2017-2018 Caitlin Gosciminski (UVM)
2017 Rowan Pannier (Crested Butte High School CO/RMBL)
2016, 2017 Raina Fitzpatrick (Haverford College/RMBL)
2016-2017 Ben Miller (UT)
2015-2017 Brennan Flanagan (UT); Silvia Iradukunda (UT); Sarah Ottinger (UT); Helen Law (UT)
2016 Wyatt Arnold (University of Chicago/RMBL)
2014-2016 Magnus Heide Andreasen (KU)
2015 Peter Meidl (UT/RMBL); Monique Garrett (Humboldt State/RMBL)
2014-2015 Kenna Rewcastle (UT/KU/RMBL); Sara La Haie (UT)
2012-2015 Sneha Patel (UT); Kent Cornell (UT)
2013-2014 Nick Hendershot (UT/RMBL)
2012-2014 Brandy Pieper (UT); Nora Dunkirk (UT)
2012-2013 Jaime Call (UT); Su'ad Yoon (UT/RMBL); Raina Fitzpatrick (West High School TN)
2010-2013 Sarah Wood (UT/RMBL)

2012 Kelsey Richesin (UT); Kelly Giro (UT); Alaina Marinello (UT); Corinne Calhoun (Pomona College/RMBL); Courtney Patterson (UT)

2011-2012 Matthew Floyd (UT)

2010-2012 Katie Sloop (UT)

2009-2012 Heather Tran (UT)

2011 Amanda Oaks (UT); Katie Park (Maryville University/RMBL); Minh Tran (Emory); M Stephanie Jensen (UT)

2010-2011 Gordon Robinson (UT); Danny Lusk (UT); Matt Olive (UT)

2009-2011 Phoebe Wright (UT); Lauren Breza (UT)

2010 Jackie Aareson (UT); Tander Simberloff (Smith College); Alix Pfennigwerth (UT)

2009 Laura Marsh (UT); Tander Simberloff (West High School TN); Anna Proffitt (UT)

2008 John Bevans (University of Tampa); Kelly Rula (Bowdoin College); Elizabeth Ferguson (UT)

2007-2008 Gloria Jimenez (Carleton College)

2007 Vanessa Garcia (Cal State, Fresno); Caitlin Guthrie (Pomona College); Jennifer Burks (Earlham College)

2006-2008 Emily Austin (Hampshire College)

2006-2007 Emmi Felker-Quinn (Smith College); Melissa Habenicht (UT); Zach Kiershmann (UT); Sarah Kortebein (Farragut High School TN); Onike Mnzawa (UT)

2006 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)

2005-2007 Katherine Sides (Northern Arizona University)

2005-2006 Katrina Cox (Pellissippi Community College); Kerri Crawford (UT)

2005 Caroline DeVan (UT); Sam Freyaldenhoven (Hendrix College)

2011-2020 Undergraduate research & REU mentor, Rocky Mountain Biological Laboratory
Undergraduate academic advisees (University of Vermont)

2020 Spring 32 Environmental Science/Parks, Recreation & Tourism/Natural Resources majors

2019 74 Environmental Science/Parks, Recreation & Tourism/Natural Resources majors

2018 46 Environmental Science/Parks, Recreation & Tourism/Natural Resources majors

2016-17 33 Environmental Science/Parks, Recreation & Tourism/Natural Resources majors
Undergraduate academic advisees University of TN (year graduated)

2016 Peter Meidl

2015 Kenna Rewcastle

2013 Courtney Thomas; Casey Blanks; Sarah Wood; Bruce Williams; Christopher Murphy; Callie Grabstein; Byanca Moreno; John Carney; Cody Whitt; Meredith Hayes; Sabrina Rhodes

2012 Laura Barlow; Kelsey Richesin; Alix Pfennigwerth; Melanie Sullivan
 2011 Matt Olive; Callie Caponet
 2010 Georgia Bragg; Phoebe Wright

Professional service & outreach to enhance diversity

2021-2022 EEB Frontiers Masters Program Admission Committee
 2019-2020 Chair, Diversity Committee, Rocky Mountains Biological Laboratory
 2019 Women in Soil Science Panelist, The University of Vermont
 2015 Women in Science Ethics Panelist, Rocky Mountain Biological Laboratory
 2011-2014 Program for Excellence & Equity in Research (PEER) mentor, University of Tennessee
 2011-2013 USA Science Festival Participant, Washington DC
 2009-2010 Committee for women, University of Tennessee
 2008 NSF ADVANCE workshop, Women Evolving Biological Sciences (WEBS), USA
 2007 Historically Black Colleges & Universities & Minority Education Institutions Research Program
 2006 Southeastern Consortium for Minorities in Engineering & Science; DOE Day of Science participant to attract minority students into scientific professions

University, Museum & Organization service

2022-now Michigan Fellow mentor
 2021-now University of Michigan LSA Carbon Neutrality team— Facilities
 2021-now Biosciences Initiative Coordinating Committee (BICC), University of Michigan
 2021-now Mid-career Biosciences Faculty Achievement Recognition award (MBioFAR) committee member, University of Michigan
 2021-now Ecology & Evolutionary Biology Faculty mentor
 2021 Ecology & Evolutionary Biology Retreat Committee
 2021 Ecology & Evolutionary Biology Faculty 3rd year review Committee member
 2020 Search committee for UVM's Vice President of Research
 2019-2020 Co-chair, Graduate program review committee, Rubenstein School, University of Vermont
 Faculty Standards Committee, Rubenstein School, University of Vermont
 Chair, Diversity Committee, Rocky Mountains Biological Laboratory
 Member, Research Evaluation Committee, Rocky Mountains Biological Laboratory
 2017-2020 Strategic Planning committee, Rocky Mountain Biological Laboratory
 2016-2020 Facilities committee, Rocky Mountain Biological Laboratory
 Annual Evaluation of Executive Director and Board Self-Evaluation committee, Rocky Mountain Biological Laboratory

2017-2020 Graduate Standards committee, Rubenstein School, University of Vermont

2017-2019 Chair, Research Vision committee, Rocky Mountain Biological Laboratory

2017-2018 Chair, Committee on Academic Benchmarking for the Rubenstein School, UVM

2016-2017 Chair, Facilities committee, Rocky Mountain Biological Laboratory

Chair, Outreach committee, Center for Macroecology, Evolution, and Climate

2014-2016 Research committee, Rocky Mountain Biological Laboratory

2015 Chair, disease ecology search committee, University of Copenhagen

2012-2014 Chair, Undergraduate Affairs, University of Tennessee

Executive Committee, University of Tennessee

Natural Sciences Undergraduate Affairs Committee, University of Tennessee

2012-2013 Department head search committee, University of Tennessee

2012 Research Center Equipment Committee, Rocky Mountain Biological Laboratory

2011-2013 Douglas Distinguished Lectureship committee, Rocky Mountain Biological Laboratory

2011-2012 Arts and Sciences Dean's Advisory Council, University of Tennessee

2010-2011 Facilities Committee, Rocky Mountain Biological Laboratory

2009-2011 University-wide governors chair search committee, University of Tennessee

2008-2011 Undergraduate curriculum committee, University of Tennessee

2010 Ecology search committee, University of Tennessee

2006-2007 National Ecological Observatory Network (NEON) committee, University of Tennessee

Professional service & outreach

2021 Reviewer for Tenure and Promotion packet: 3× USA R1 academic institution; 1× USA PUI academic institution

2021 Reviewer for Research Staff Promotion: 1× USA R1 Scientific organization

2021 Reviewer for Regents professor promotion: 1× USA R1 academic institution

2020 Reviewer for Tenure and Promotion packet: 2× USA R1 academic institution; 1× International R1 academic institution

2019 Ecological Society of America webinar on Academic Publishing

2019 Reviewer for Tenure and Promotion packets: 1× International R1 academic institution; 3 USA R1 academic institutions; 1× USA research institution

2019 External reviewer of University of California, Davis program in Evolution, Ecology, & Biodiversity, College of Biological Sciences

2017-2018 NEON soil sensor technical working group

2018 Reviewer for Tenure and Promotion: 2× USA R1 academic institutions

2018 RMBL speaker "getting into graduate school"

2017 Reviewer for Tenure and Promotion: 2× USA R1 academic institutions

2015 Reviewer for Tenure and Promotion: USA R1 research institution

National agency review panels

2018 US Department of Energy

2015-2016 European Union BiodivERsA ERA-NET

2011 US National Science Foundation

2007 US National Ecological Observatory Network (NEON) site reviewer

Professional society service (in addition to editorial duties)

2012-2013 Ecological Society of America committee to envision the future of ESA journals

Steering committees

2018-2021 Functional Ecology of Alpine Systems Global network

2007-2010 Terrestrial Ecosystem Response to Atmospheric and Climatic Change

Outreach

2016 Museum Public Talk on soil biodiversity

2014 “Geek Week” Panelist, Crested Butte Colorado Science Festival

2013 US congressional visit by group members; Invasive weed outreach

2012 “Geek Week” Panelist, Crested Butte Colorado Science Festival; Invasive weed outreach; US congressional visit by group members; Citizen Scientist Symposium instructor, Rocky Mountain Biological Laboratory; Adult Science Leader, Rocky Mountain Biological Laboratory

2011 Invasive weed outreach

Reviewer for funding agencies & journals

2008-now Science Foundation Ireland; The US Department of Energy Science Focus Area program; European Union; The Royal Society PanAfrica Awards, UK; US National Science Foundation Ecology Panel; US National Science Foundation Ecosystems Panel; US National Science Foundation Long-Term Research in Environmental Biology; The Netherlands Organization for Scientific Research (NWO); Natural Sciences and Engineering Research Council of Canada; Academy of Sciences of the Czech Republic; US Civilian Research & Development Foundation (CRDF); US Department of Energy Terrestrial Ecosystem Sciences Program; US Department of Energy Office of Science Graduate Fellowship (SCGF) Program; US Department of Energy NICCR program; US Department of Energy Program for Ecosystem Research; US Department of Energy SCGF Program; US Department of Energy Terrestrial Carbon Program

Reviewer for journals (selected)

2008-now *Australian Journal of Soil Research, BioScience, Biological Invasions, Canadian Journal of Forest Research, Conservation Biology, Ecological Applications, Ecological Monographs, Ecology, Ecology Letters, Ecosphere, Ecosystems, Functional Ecology, Global Change Biology, Isotopes in Health and Environmental Studies, Journal of Ecology, Nature, Nature Communications, New Phytologist,*

Oecologia, Plant and Soil, PLoS One, Polish Journal of Environmental Science, Science, Soil Science Society of America Journal, Soil Biology & Biochemistry

Abstracts and contributed papers

2008-2018 Ecological Society of America (>59); 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 (1); American Geophysical Union (>6); Ecology of Microorganisms (2); European Geophysical Union (4); EUReCA, Undergraduate Research Fair (11); Soil Ecology (6); 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)

Aimée T. Classen

Peer-reviewed publications

*undergraduate student, **graduate student, +postdoctoral fellow

note: in ecology, last author (and occasionally second) denotes papers coming from your lab group where you made a significant contribution

- in revision 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 (in revision) Sublethal effects of parasitism on ruminants can have cascading consequences for ecosystems **PNAS**
- Santangelo JS, 268 authors, Johnson MTJ. (In revision) Global urbanization drives parallel environmental and evolutionary change. **Science**
- in review Barrios-Garcia MN, Gonzalez-Polo M, Simberloff D, Classen AT (in review) Wild boar activity impacts soil function, but that impact varies by plant community. **Biological Invasions**
- Pastore MA, Classen AT, D'Amato AW, Foster JR, Adair EC (in review) Cold air pools as microrefugia for ecosystem functions in the face of climate change. **Ecology**
- Potapov AM et al.... 95 authors (in review). Global mismatches in density, diversity, and metabolism of soil microarthropods. **Nature Communications**
- Prager CM*, Classen AT, Sundqvist MK, Barrios-Garcia MN, Cameron EK, Chen L, Chisholm C, Crowter T, Deslippe JR, Grigulis K, He JS, Henning J, Hoenden M, Hoyer TT, Jing X*, Lavorel S, McLaren JR, Metcalfe DB, Newman G, Rixen C, Read QD, Rewcastle KE**, Rodriguez-Cabal MA, Wardle DA, Wipf S, Sanders NJ (in review) Integrating natural gradients, experiments, and statistical modelling in a distributed network experiment: an example from the WaRM Network. **Ecology & Evolution**
- Seybold E, Dwivedi R, Musselman K, Kincaid D, Schroth A, Perdrial J, Classen AT, Adair EC (in review) Changing winter dynamic pose a serious risk to water quality. **Environmental Research Letters**
- 2022 Jing X+, Prager CM+, 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** 10.1111/geb.13442
- Rewcastle KE**, Henning JA**, Read QD**, Irwin R, Sanders NJ, Classen AT (2021) Plant removal across an elevational gradient marginally reduces rates, substantially reduces variation in mineralization. **Ecology** 103(1):e03546. doi-org.proxy.lib.umich.edu/10.1002/ecy.3546
- 2021 Ezenwa V, Civitello D, Classen AT, Barton BT, Becker D, Brenn-White M, Deem SL, Johnson ZE, Kutz S, Malishev M, Penczykowski RM, Preston D, Vannatta JT, Koltz AM (2021) Response to Charlier et al. Climate-disease feedbacks mediated by livestock are plausible. **Trends in Ecology & Evolution** 36(7):578-579 10.1016/j.tree.2021.04.00

Jing X⁺, Prager CM⁺, Borer ET, Gotelli NJ, Gruner DS, He JS, Kirkman K, MacDougall AS, McCulley RL, Prober SM, Seabloom EW, Stevens CJ, Classen AT, Sanders NJ (2021) Spatial turnover of multiple ecosystem functions is more associated with plant than soil microbial β -diversity. **Ecosphere** 12(7):e03644. 10.1002/ecs2.3644

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

Prager CM⁺, Jing X⁺, Henning JA^{**}, Read QD^{**}, Meidl P^{*}, Lavorel S, Sanders NJ, Sundqvist M, Wardle D, Classen AT (2021) Climate and multiple dimensions of plant diversity regulate ecosystem carbon exchange along an elevational gradient. **Ecosphere** 12(4):e03472. 10.1002/ecs2.3472

2020 Bennett AE and Classen AT (2020) Climate change influences mycorrhizal fungal-plant interactions, but conclusions are limited by geographical study bias. **Ecology** 101(4): e202978.

Brunbherg AK^{**}, Bruun HH, Darby L, Classen AT, Fløgaard C, Frøslev TG, Hansen OLP, Høye T, Moeslund JE, Svenning JC, Ejrnæs R (2020) Multi-taxon inventory reveals highly consistent biodiversity responses to ecospace variation. **OIKOS** 129: 1381-1392. 10.1111/oik.07145

Ezenwa V, Civitello D, Barton BT, Becker D, Brenn-White M, Classen AT, Deem SL, Johnson ZE, Kutz S, Malishev M, Penczykowski RM, Preston D, Vannatta JT, Koltz AM (2020) Infectious diseases, livestock and climate: a vicious cycle? **Trends in Ecology & Evolution** 10.1016/j.tree.2020.08.012

Giejsztowt J^{**}, Classen AT, Deslippe JR (2020) Climate change and invasion may synergistically affect native plant reproduction. **Ecology** 101(1): e02913.

Jing X⁺, Prager CM⁺, Classen AT, Maestre FT, He JS, Sanders NJ (2020) Variation in the methods leads to variation in the interpretation of biodiversity-ecosystem multifunctionality relationships. **Journal of Plant Ecology** 13(4): 431-441.

Moore JAM^{**}, Sulman BN⁺, Mayes MA, Patterson CM, Classen AT (2020) Plant roots stimulate the decomposition of complex, but not simple, soil carbon. **Functional Ecology** 34(4): 899-910.

Rewcastle KE^{*}, Moore JAM^{**}, Henning JA^{**}, Mayes MA, Patterson CM, Wang G, Metcalfe DB, Classen AT (2019) Investigating drivers of microbial activity and respiration in a forested bog. **Pedosphere** 30(1):135-145.

Shen C, Gunina A, Luo Y, Wang J, He JZ, Kuzyakov Y, Hemp A, Classen AT, Ge Y (2020) Contrasting patterns and drivers of bacterial and fungal diversity across a mountain gradient. **Environmental Microbiology** 22(8): 3287-3301.

Sundqvist MK, Sanders NJ, Dorrepaal E, Linden E, Metcalfe DB, Newman G, Olofsson J, Wardle DA, Classen AT (2020) Responses of tundra plant community carbon flux to experimental warming, dominant species removal and elevation. **Functional Ecology** 34(7):1497-1506. doi.org/10.1111/1365-2435.13567

Wang H, Liu H, Cao G, Ma Z, Li Y, Zhang F, Zhao X, Zhao X, Jiang L, Sanders NJ, Classen AT, He JS (2020) Alpine grassland plants grow earlier and faster but

biomass remains unchanged over 35 years of climate change. **Ecology Letters** 23(4): 701-710.

2019

Bennett AE, Preedy K, Golubski A, Umbanhower J, Borrett SR, Byrne L, Apostel K, Bever JD, Biederman L, Classen AT, Cuddington K, de Graaff MA, Garrett K, Gross L, Hastings AM, Hoeksema JD, Hryniv V, Karst J, Kummel M, Lee CT, Liang C, Liao W, Mack K, Miller L, Owsley B, Rojas C, Simms EL, Walsh VK, Warren M, Zhu J (2019) Beyond the black box: promoting mathematical collaborations for elucidating interactions in soil ecology. **Ecosphere** 10(7):Article e02799.

Brunbherg AK**, Bruun HH, Brødum, L, Classen AT, Darby L, Fog K, Frøslev TG, Goldberg I, Johannes Hansen A, Hansen MDD, Høye TT, Illum AA, Læssøe T, Newman GS, Skipper L, Søchting U, Ejrnæs R (2019) A systematic survey of regional multitaxon biodiversity: evaluating strategies and coverage. **BMC Ecology** 19:43. DOI:/10.1186/s12898-019-0260-x

Cameron EK+, Sundqvist MK+, Keith SA, CaraDonna P**, Mousing EA**, Nilsson K, Metcalfe DB, Classen AT (2019) Uneven global distribution of food web studies under climate change. **Ecosphere** 10(3):e02645. 10.1002/ecs2.2645

Cavicchioli R, Ripple WJ, Timmis KN, Adam F, Bakken LR, Bayliss M, Behrenfeld MJ, Boetius A, Boyd PW, Classen AT, Crowther T, Danovaro R, Foreman C, Huisman Jef, Hutchins DA, Jansson JK, Karl DM, Koskella B, Martiny J, Moran MA, Orphan V, Raey D, Remais JV, Rich V, Singh BK, Stein L, Stewart FJ, Sullivan MB, van Oppen MJH, Weaver SC, Webb EA, Webster N, Mark Welch DB (2019) Scientists' Warning to Humanity: microorganisms and climate change. **Nature Reviews Microbiology** 17: 569–586. DOI 10.1038/s41579-019-0222-5

Henning JA**, Read QD**, Sanders NJ, Classen AT (2019) Plant soil feedbacks resistant to nitrogen addition and resilient to dominant species losses. **Ecosphere** 10(3)e02640.

Henning JA**, Weston DJ, Pelletier DA, Timm CM, Jawdy SS, Classen AT (2019) Relatively rare root endophytic bacteria drive plant resource allocation patterns and tissue nutrient concentrations in unpredictable ways. **American Journal of Botany** 106(11): 1–12.

Hovenden MJ, Leuzinger S, Newton PCD, Fletcher A, Fatichi S, Lücher A, Reich PB, Anderson LC, Beier C, Blumenthal DM, Chiariello NR, Dukes JS, Kellner J, Hofmockel K, Nikklaus PA, Song J, Wan S, Classen AT, Langlely JA (2019) Rainfall seasonality explains the response of temperate grassland biomass to elevated CO₂. **Nature Plants** 5:167-173.

Meineke EK+, Classen AT, Sanders NJ, Davies TJ (2019) Herbarium specimens reveal increasing herbivory over the past century. **Journal of Ecology** 107:105-117.

Song J, Wan S, Piao S, Knapp A, Classen AT, Vicca S, Ciais P, Hovenden M, Leuzinger S, Beier C, Kardol P, Xia J, Liu Q, Ru J, Zhou Z, Luo Y, Guo D, Langlely JA, Zscheischler J, Dukes JS, Tang J, Chen J, Hofmockel KS, Kueppers LM, Rustad L, Liu L, Smith MD, Templer PH, Thomas RQ, Norby RJ, Phillips RP, Niu S, Fatichi S, Wang Y, Wang D, Lingjie L, Wang J, Li X, Zhang Q, Han H, Shao P, Li X, Su F, Liu B, Yang F, Ma G, Li G, Liu Y, Liu Y, Yang Z, Zhang K, Miao Y, Hu M, Yan C, Zhang A, Zhong M, Hui Y, Li Y, Zheng M (2019) A meta-analysis of 1119 manipulative

experiments on terrestrial carbon cycling responses to global change. **Nature Ecology and Evolution** DOI: 10.1038/s41559-019-0958-3.

Sørensen MV**, Strimbeck R, Classen AT, Enquist BJ, Nystuen KO, Graae BJ (2019) Drivers of C cycling in three arctic-alpine plant communities. **Arctic, Antarctic, and Alpine Research** 51(1):e1592649

Stuble KL, Ma S, Liang J, Luo Y, Classen AT, Souza L (2019) Long-term impacts of warming accumulate to impact decomposition and accelerate the turnover of labile, not recalcitrant, carbon in prairie soils. **Ecosphere** 10(5):202715.

Suonan J**, Classen AT, Sanders NJ, He JS (2019) Plant phenological sensitivity to climate change on the Tibetan Plateau and relative to other areas of the world. **Ecosphere** 10(1):e02543. 10.1002/ecs2.2543

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Zhao C, Zhao J, Wu J, Classen AT, Li Y, Lou Y, Zhang W, Jing X, Shao Y, Fu S (2019) Bamboo forest management leads to a shift in the soil energy channel. **Geoderma** 353(1):201-203.

2018

Blume-Werry G**, Lindén E, Andresen L, Classen AT, Sanders NJ, von Oppen J, Sundqvist MK (2018) Proportion of fine roots, but not plant biomass allocation below ground, increases with elevation in arctic tundra. **Journal of Vegetation Science** 29(2):226-235.

Koltz AM+, Classen AT, Wright JP (2018) Warming reverses top-down effects of arctic predators on belowground ecosystem function. **Proceedings of the National Academies of the Sciences** 115(32):E7541-E7549.

Liu H, Zhaorong M, Lin L, Wang Y, Zhang Z, Zhang F, Wang H, Liu L, Zhu B, Cao G, Zhao X, Sanders NJ, Classen AT, Reich PB, He JS (2018) Shifting plant species composition in response to climate change stabilizes grassland primary production. **Proceedings of the National Academy of Sciences** 115(16):4051-4056.

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Read QD**, Henning JA**, Classen AT, Sanders NJ (2018) Aboveground resilience to species loss but belowground resistance to nitrogen addition in montane plant communities. **Journal of Plant Ecology** 11(3):251-363.

Stuart-Haëntjens E**, De Boeck H, Lemoine N, Mänd P, Kröel-Dulay G, Schmidt IK, Jentsch A, Stampfli A, Anderegg W, Bahn M, Kreyling J, Wohligemuth T, Lloret F, Classen AT, Gough C, Smith MD (2018) Mean annual precipitation predicts primary production resistance and resilience to extreme drought. **Science of the Total Environment** 636:360-366.

Sulman BN⁺, Moore JAM^{**}, Abramoff R⁺, Averill C⁺, Kivlin S⁺, Georgia K⁺, Sridhar B, Hartman MD⁺, Wang G, Wieder WR, Bradford MA, Lou Y, Mayes MA, Morrison E, Riley WJ, Salazar A, Schimel JP, Tang J, Classen AT (2018) Multiple models and experiments underscore large uncertainty in soil carbon dynamics.

Biogeochemistry 141(2):109-123.

Zhao Q, Sundqvist MK, Newman GS, Classen AT (2018) Soils beneath arctic shrubs have contrasting responses to a natural gradient in temperature suggesting shifts in soil fertility islands over time. **Ecosphere** 9(6):e02290.

2017

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Nature Ecology & Evolution 1:1836-1845.

Hendershot JN^{*}, Read QD^{**}, Henning JA^{**}, Sanders NJ, Classen AT (2017) Consistently inconsistent drivers of patterns of microbial diversity and abundance at macroecological scales. **Ecology** 98:1757-1763.

Jiang J⁺, Moore JAM^{**}, Priyadarshi A⁺, Classen AT (2017) Plant-mycorrhizal interactions mediate plant community coexistence by altering resource demand.

Ecology 98:187-197.

Mayor J⁺, Sanders NJ, Classen AT, Bardgett R, Clément JC, Farjado A, Lavorel S, Sundqvist MK, Bahn M, Chisholm C^{**}, Cieraad E, Gedelof Z, Grigulis K, Kudo G, Oberski D, Wardle DA (2017) Elevation alters ecosystem properties across temperate treelines globally. **Nature** 542:91-95.

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Suonan J^{**}, Classen AT, Zhang Z, He JS (2017) Asymmetric winter warming advanced plant phenology to a greater extent than symmetric warming in an alpine meadow. **Functional Ecology** 31(11):2147-2156.

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2016

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- Bradford MA (2016) Quantifying global soil carbon losses in response to warming. **Nature** 540:104-108.
- Henning JA**, Weston DJ, Pelletier DA, Timm CM, Jawdy SS, Classen AT (2016) Root bacterial endophytes alter plant phenotype, but not physiology. **PeerJ** 4:e2606
- Kuebbing SE**, Patterson C*, Classen AT, Simberloff D (2016) Co-occurring nonnative woody shrubs have additive and non-additive soil legacies. **Ecological Applications** 26:1896-1906.
- Niu S, Classen AT, Dukes JS, Kardol P, Liu L, Lou Y, Rustad L, Vicca S, Tang J, Templer P, Thomas R, Tian D, Wang YP, Xia J, Zaehle S (2016) Global patterns and fundamental mechanisms of the terrestrial nitrogen cycle. **Ecology Letters** 19:697–709.
- 2015 Classen AT, Sundqvist M+, Henning JA**, Newman GS, Moore JAM**, Cregger M, Moorhead LC**, Patterson CM (2015) ESA Centennial Paper: Direct and indirect effects of climate change on soil microbial and soil microbial-plant interactions: What lies ahead? **Ecosphere** 6(8):1-21.
- Jing X**, Sanders NJ, Shi Y, Chu H, Classen AT, Zhao K, Chen L, Jiang Y, He JS (2015) The links between ecosystem multifunctionality and above- and belowground biodiversity are mediated by climate. **Nature Communications** 6:8159.
- Kendrick J*, Ribbons RR**, Classen AT, Ellison AM (2015) Changes in canopy structure and ant assemblages affect soil ecosystem variables as a foundation species declines. **Ecosphere** 6:art77.
- Kuebbing SE**, Classen AT, Call J*, Henning J**, Simberloff D (2015) Plant soil interactions promote co-occurrence of three nonnative woody shrubs. **Ecology** 96:2289–2299.
- Kuebbing SE**, Classen AT, Sanders NJ, Simberloff D (2015) The effects of changes in biodiversity differ between phylogenetically paired native and nonnative plant communities. **New Phytologist** 208(3): 727-735.
- Moore JAM**, Jiang J+, Patterson CM, Mayes MA, Wang G, Classen AT (2015) Interactions among roots, mycorrhizas and free-living microbial communities differentially impact soil carbon processes. **Journal of Ecology** 103:1442-1453.
- Moore JAM**, Jiang J+, Post WM, Classen AT (2015) Decomposition by ectomycorrhizal fungi alters soil carbon storage in a simulation model. **Ecosphere** 6(3):29.
- 2014 Barrios-Garcia MN**, Classen AT, Simberloff D (2014) Disparate responses of above- and belowground properties to soil disturbance by an invasive mammal. **Ecosphere** 5:44.
- Cregger MA**, McDowell N, Pangle RE, Pockman W, Classen AT (2014) The impact of precipitation change on nitrogen cycling in a semi-arid ecosystem. **Functional Ecology** 28:1534-1544.
- Cregger MA**, Sanders NJ, Dunn RR, Classen AT (2014) Microbial communities respond to experimental warming, but location matters. **PeerJ** 2:e358.

- Fischer DG, Chapman SK, Classen AT, Gehring CA, Grady KC, Schweitzer JA, Whitham TG (2014) Marschner Review: Plant genetic effects on soils under climate change. **Plant and Soil** 37: 91-19.
- Kuebbing K**, Classen AT, Simberloff D (2014) Co-occurring invasive woody shrubs alter soil properties and promote exotic species richness. **Journal of Applied Ecology** 51:124-133.
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