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Education

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

Appointments

- 2018-now Fellow, Gund Institute for Environment, University of Vermont, USA
2017-now Interim Natural Resources Program Director, Rubenstein School, University of Vermont, USA
Associate Professor, Rubenstein School, University of Vermont, USA
2014-2017 Associate Professor, Natural History Museum, University of Copenhagen, Denmark
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 appointments

- 2016-now Editor-in-Chief, *Ecological Monographs* (impact factor >8, 5th ranked journal in Ecology)
Board of Trustees, Rocky Mountain Biological Laboratory, Colorado, USA
2011-now Editorial board *Ecology* & *Ecological Monographs*
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-now Affiliated Faculty, Food Systems Graduate Program, University of Vermont, USA
2016-now Adjunct Associate Professor, Victoria University of Wellington, New Zealand
2015-now Adjunct Associate Professor, University of Tennessee, USA
2014-2017 Faculty, Center for Macroecology, Evolution and Climate, University of Copenhagen, Denmark

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, Bredeesen 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 (CA & MA) and laboratory technician (Stanford University)

Leave

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

Research funding (Total external funding > \$7.16 million USD)

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	Alpine plant-fungal interactions under shrub encroachment and their role in ecosystem carbon turnover; IK lykkes fond Norway; 20,000 NOK; Co-PI Request for a gas exchange cluster to explore climate change impacts on montane ecosystems around the world; Carlsberg Foundation; 360,000 DKK; 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 <i>Populus</i> . 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 CO ₂ in a closed canopy deciduous forest. The Department of Energy Terrestrial Carbon Program; 597,444 USD; Co-PI

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 press 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 (in press) Shifting plant species

composition in response to climate change stabilizes grassland primary production.

Proceedings of the National Academy of Sciences

Blume-Werry G**, Lindén E, Andresen L, Classen AT, Sanders NJ, von Oppen J, Sundqvist MK (in press) Proportion of fine roots, but not plant biomass allocation belowground, increases with elevation in an arctic tundra landscape. ***Journal of Vegetation Science***

Read QD**, Henning JA**, Classen AT, Sanders NJ (in press) Aboveground resilience to species loss but belowground resistance to nitrogen addition in montane plant communities. ***Journal of Plant Ecology*** doi.org/10.1093/jpe/rtx015.

2017

Bradford MA, Veen GF, Bonis A, Bradford EM, Classen AT, Cornelissen JHC, Crowther TW, De Long JR, Kardol P, Manrubia-Freixa M, Freshet GT, Maynard DS, Newman G, van Logtestijn RSP, Viketoft M, Wardle DA, Wieder WR, Wood SA, van der Putten WH (2017) A test of the hierarchical model of litter decomposition. ***Nature Ecology & Evolution*** doi:10.1038/s41559-017-0367-4

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.

Moorhead LC**, Souza L+, Habeck C**, Lindroth RL, Classen AT (2017) Rodent activity slows ecosystem function in an oldfield ecosystem. ***Ecosphere*** 8(5):e01777.

Souza L+, Stuble KL, Genung MA, Classen AT (2017) Plant genotype identity and intra-specific diversity trump soil nutrient availability to shape old-field structure and function. ***Functional Ecology*** 31(4):965-974.

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.

Zhao Q, Classen AT, Wang W, Zhao X, Mao B, Zeng D (2017) Asymmetric effects of litter removal and litter addition on the structure and function of soil microbial communities in a managed pine forest. ***Plant and Soil*** 414:81-93.

2016

Connell RK*, Pfennigwerth AA*, Classen AT, Kwit C (2016) Incorporating redispersal microsites into myrmecochory in eastern North American forests. ***Ecosphere*** 7:e01456.

Crowther TW, Todd-Brown KEO, Rowe CW, Wieder WR, Carey JC, Machmuller MB, Snoek LB, Fang S, Zhou G, Allison SD, Blainr JM, Bridgeham SD, Burton AJ, Carrillo Y, Reich PB, Clark JS, Classen AT, Dijkstra FA, Elberling B, Emmett B, Estiarte M, Frey SD, Guo J, Harte J, Jiang L, Johnson BR, Kröel-Dulay G, Larsen KS, Laudon H, Lavalley JM, Luo Y, Lupascu M, Ma LN, Marhan S, Michelsen A, Mohan J, Niu S, Pendell E, Peñuelas J, Pfeifer-Meister L, Poll C, Reinsch S, Reynolds LL, Schmidt IK, Sistla S, Sokol NW, Templer PH, Treseder KK, Welker JM,

- 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.
- Wright P*, Cregger MA**, Souza L, Sanders NJ, Classen AT (2014) The effects of insects, nutrients, and plant invasion on community structure and function above- and belowground. **Ecology & Evolution** 4:732-742.
- 2013 Classen AT, Chapman SK, Whitham TG, Hart SC, Koch GW (2013) Long-term insect herbivory slows soil development in an arid ecosystem. **Ecosphere** 4:52.
- Kardol P+, Souza L+, Classen AT (2013) Resource availability mediates the importance of priority effects in plant community assembly and ecosystem function. **Oikos** 122:84-94.
- 2012 Breza L*, Souza L+, Sanders NJ, Classen AT (2012) Within and between population variation in plant traits predicts ecosystem functions associated with a dominant plant species. **Ecology & Evolution** 2:1151-1161.
- Castro HF+, Classen AT, Austin EE**, Crawford KM*, Schadt CW (2012) Development and validation of a citrate synthase directed quantitative PCR marker for soil bacterial communities. **Applied Soil Ecology** 61:69-75.
- Cregger MA**, Schadt CW, McDowell N, Pockman W, Classen AT (2012) Soil microbial community response to precipitation change in a semi-arid ecosystem. **Applied and Environmental Microbiology** 78:8587-8594.
- Hoeksema JD, Classen AT (2012) Is plant genetic control of ectomycorrhizal communities an untapped source of stable soil carbon in managed forests? **Plant and Soil** 359:197-204.
- 2011 Blue JD**, Souza L+, Classen AT, Schweitzer JA, Sanders NJ (2011) The variable effects of soil nitrogen availability and insect herbivory on aboveground and belowground plant biomass in an old-field ecosystem. **Oecologia** 167:771-780.
- Brosi GB**, McCulley RL, Bush LP, Nelson JA, Classen AT, Norby RJ (2011) Effects of multiple climate change factors on the tall fescue-fungal endophyte symbiosis: infection frequency and tissue chemistry. **New Phytologist** 189:797-805.
- Chen X, Post WM, Norby RJ, Classen AT (2011) Modeling soil respiration and variation in source components using a multi-factor global climate change experiment. **Climatic Change** 107:459-480.
- de Graaff MA+, Schadt CW, Rula K*, Six J, Schweitzer JA, Classen AT (2011) Elevated [CO₂] and plant species diversity interact to slow root decomposition. **Soil Biology & Biochemistry** 43:2347-2354.
- Garten Jr. CT, Wulfschleger SD, Classen AT (2011) Review and model-based analysis of factors influencing soil carbon sequestration under hybrid poplar. **Biomass and Bioenergy** 35(1):214-226.
- Gray SB*, Classen AT, Kardol P, Yermakov Z, Miller MA (2011) Multiple climate change factors interact to alter soil microbial community structure in an old-field ecosystem. **Soil Science Society of America** 75(6):2217-2226.
- Iversen CM**, Hooker TD**, Classen AT, Norby RJ (2011) Net mineralization of N at deeper soil depths as a potential mechanism for sustained forest production under elevated [CO₂]. **Global Change Biology** 17(2):1130-1139.

- Kardol P⁺, Renolds WN^{**}, Norby RJ, Classen AT (2011) Climate change effects on soil microarthropod abundance and community structure. **Applied Soil Ecology** 47:37-44.
- Luo Y, Melillo JM, Niu S, Beier C, Clark JS, Classen AT, Davidson E, Dukes JS, Evans RD, Field CB, Czimczik CI, Keller M, Kimball BA, Kueppers L, Norby RJ, Pelini SL, Pendall E, Rastetter E, Six J, Smith M, Tjoelker M, Torn M (2011) Coordinated approaches to quantify long-term ecosystem dynamics in response to global change. **Global Change Biology** 17:843-854.
- Souza L⁺, Weston DJ, Sanders NJ, Karve A, Crutsinger GM, Classen AT (2011) Variation from individuals to ecosystems in the response to climatic warming: a test with *Solidago altissima*. **Ecosphere** 2:1-14.
- 2010 Castro HF⁺, Classen AT, Austin EE^{*}, Norby RJ, Schadt CW (2010) Soil microbial community responses to multiple experimental climate change drivers. **Applied and Environmental Microbiology** 76:999-1007.
- Classen AT, Norby RJ, Campy CE, Sides KE^{*}, Weltzin JF (2010) Climate change alters seedling emergence and establishment in an old-field ecosystem. **PLoS ONE** 5:e13476
- de Graaff MA⁺, Classen AT, Castro H⁺, Schadt CW (2010) Labile soil carbon inputs mediate the soil microbial community composition and plant residue decomposition rates. **New Phytologist** 188:1055-1064.
- Kardol P⁺, Campy CE, Souza L, Norby RJ, Weltzin JF, Classen AT (2010) Climate change effects on plant biomass alter dominance patterns and community evenness in an experimental old-field ecosystem. **Global Change Biology** 16:2676-2687.
- Kardol P⁺, Cregger MA^{**}, Campy CE, Classen AT (2010) Soil ecosystem functioning under climate change: plant species and community effects. **Ecology** 91:767-781.
- Sackett T, Classen AT, Sanders NJ (2010) Linking soil food web structure to above- and below-ground ecosystem processes: a meta-analysis. **Oikos** 119:1984-1992. recommended by faculty of 1000: F1000.com/5617956
- 2009 Antoninka A^{**}, Wolf JE, Bowker M, Classen AT, Johnson NC (2009) Linking above and belowground responses to global change at community and ecosystem scales. **Global Change Biology** 15:914-929.
- Austin EE^{*}, Castro HF⁺, Schadt CW, Sides KT^{*}, Classen AT (2009) Assessment of 10 years of CO₂ fumigation on soil microbial communities and function in a sweetgum plantation. **Soil Biology & Biochemistry** 41:514-520.
- Crutsinger GM^{**}, Sanders NJ, Classen AT (2009) Comparing intra- and inter-specific effects on litter decomposition in an old-field ecosystem. **Basic and Applied Ecology** 10:535-543.
- Engel EC^{**}, Weltzin JF, Norby RJ, Classen AT (2009) Responses of an old-field plant community to interacting factors of elevated [CO₂], warming, and soil moisture availability. **Journal of Plant Ecology** 2:1-11.
- Garten Jr. CT, Classen AT, Norby RJ (2009) Watering treatment surpasses elevated CO₂ and temperature in importance as a determinant of soil carbon dynamics in a multi-factor climate change experiment. **Plant and Soil** 319:85-94.

- 2008 Crutsinger GM**, Habenicht MN*, Classen AT, Schweitzer JA, Sanders NJ (2008) Galling by *Rhopalomyia solidaginis* alters *Solidago altissima* architecture and litter nutrient dynamics in an old-field ecosystem. **Plant and Soil** 303:95-103.
- Crutsinger GM**, Reynolds WN**, Classen AT, Sanders NJ (2008) Disparate effects of plant genotypic diversity on foliage and litter arthropod communities. **Oecologia** 158:65-75.
- Garten Jr. CT, Classen AT, Norby RJ, Brice DJ, Weltzin JA, Souza L (2008) Role of N₂-fixation in constructed old-field communities under different regimes of [CO₂], temperature, and water availability. **Ecosystems** 11:125-137.
- Knapp AK, Beier C, Briske DD, Classen AT, Lou Y, Reichstein M, Smith MD, Smith SD, Bell JE, Fay PA, Heisler JL, Leavitt SW, Sherry R, Smith B, Weng E (2008) Consequences of more extreme precipitation regimes for terrestrial ecosystems. **BioScience** 58:811-821.
- 2007 Classen AT, Chapman SK, Whitham TG, Hart SC, Koch GW (2007) Genetic-based plant resistance and susceptibility traits to herbivory influence needle and root litter nutrient dynamics. **Journal of Ecology** 95:1181-1194.
- Classen AT, Overby ST, Hart SC, Koch GW, Whitham TG (2007) Season mediates herbivore effects on litter and soil microbial abundance and activity in a semi-arid woodland. **Plant and Soil** 295:217-227.
- Tyner ML*, Classen AT (2007) Climate change effects on species composition mediates decomposition in an old-field ecosystem. *U.S. Department of Energy Journal of Undergraduate Research* 7:110-114.
- 2006 Classen AT, DeMarco J*, Hart SC, Whitham TG, Cobb NS, Koch GW (2006) Impacts of herbivorous insects on decomposer communities during the early stages of primary succession in a semi-arid woodland. **Soil Biology & Biochemistry** 38:972-982.
- 2005 Classen AT, Hart SC, Whitham TG, Cobb NS, Koch GW (2005) Insect infestations linked to shifts in microclimate: important climate change implications. **Soil Science Society of America Journal** 69:2049-2057.
- Classen AT, Langley JA (2005) Data-model integration is not magic. **New Phytologist** 166:367-369.
- 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.
- 2003 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.
- Hart SC, Classen AT (2003) Potential for assessing long-term dynamics in soil nitrogen availability from variations in $\delta^{15}\text{N}$ of tree rings. **Isotopes in Environmental and Health Studies** 39:15-28.
- in revision Henning JA**, Weston DJ, Pelletier DA, Timm CM, Jawdy SS, Classen AT (in revision) Relatively rare root endophytic bacteria drive plant resource allocation patterns and tissue nutrient concentrations in unpredictable ways. **New Phytologist**

Metcalfe DB, Hermans TDG, Ahlstrand J, Becker M, Berggren M, Björk RG, Björkman M, Blok D, Chaudhary N, Chisholm C, Classen AT, Hasselquist NJ, Jonsson M, Kristensen JA, Kumordzi B, Lee H, Mayor J, Prevéy J, Pantazatou K, Rousk J, Sponseller R, Sundqvist M, Tang J, Uddling J, Wallin G, Wenxin Z, Ahlström A, Abdi AM (in revision) Patchy field sampling biases understanding of climate change impacts across the Arctic. **Nature Ecology & Evolution**

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

in review Bennett AE and Classen AT (in review) How mycorrhizal fungi are influenced by and will influence plant responses to climate change. **Functional Ecology**

Covey KR, Bettigolo C, Warren RJ, Williams CA, Gu H, Aubrey DP, Asbjorsen H, Bohn KK, Classen AT, Crowther TW, Farrell M, Frey BR, Holzmueller EJ, Keeton WS, Knapp BO, King JR, Kuers K, Lhotka JM, Love JM, Maynard D, Megonigal JP, Pitz S, Rittenbeck NE, Sanders NJ, Saunders MR, Stovall JP, Szivecz K, Wright JP, Wurzbarger N, Oliver CD, Lee X, Bradford MA (in review) Living trees are a major source of methane in temperate forests. **Nature Communications**

Meineke EK, Classen AT, Sanders NJ, Davies TJ (in review) Herbarium specimens reveal increasing herbivory over the past century. **Global Change Biology**

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

Brunbherg AK^{**}, Bruun HH, Brødum, L, Classen AT, Fog K, Frøslev TG, Goldberg I, Hansen MDD, Høye TT, Læssøe T, Newman GS, Skipper L, Søbchting U, Ejrnæs R. (in review) A systematic survey of regional multitaxon biodiversity: evaluating strategies and coverage. **BMC Ecology**

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, Langley JA (in review) Rainfall seasonality explains the response of temperate grassland biomass to elevated CO₂. **Nature Climate Change**

Suonan J^{**}, Classen AT, Sanders NJ, He JS (in review) Phenological sensitivity to climate change on the Tibetan Plateau is greater than in other areas of the world. **Journal of Ecology**

Stuart-Haentjens E, De Boeck H, Lemoine N, Mänd P, Kröel-Dulay G, Schmidt IK, Jentsch A, Stampfli A, Anderegg W, Bahn M, Kreyling J, Wohlgemuth T, Lloret F, Classen AT, Gough C, Smith MD (in review) Precipitation as a predictor of production resistance and resilience to extreme drought. **Nature Communications**

Moore JAM^{**}, Sulman BN⁺, Mayes MA, Patterson CM, Classen AT (in review) Theoretical and empirical support that plant roots stimulate the decomposition of complex, but not simple, soil carbon. **New Phytologist**

Other publications

- 2018 Niu S, Classen AT, Luo Y (2018) Functional traits along a transect. *Functional Ecology* 32:4-9.
- 2017 Classen AT, Inouye BD (2017) Editorial. *Ecological Monographs* 87:3.
- 2016 Classen AT (2016) Editorial. *Ecological Monographs* 86:2-3.
- 2015 Ellison AM, Classen AT (2015) Editorial. *Ecological Monographs* 85:1-2.
- 2014 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.
- Ellison AM, Classen AT, Baldwin JD (2014) Editorial. *Ecological Monographs* 84:1-2.
- 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.
- 2011 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.
- 2008 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 CO₂ Experiments in Terrestrial Ecosystems” The Department of Energy.
- 2007 Schadt CW, Classen AT (2007) Book review: Soil Microbiology, Ecology, and Biochemistry. Eldor A. Paul, editor. *Soil Science Society of America Journal* 71:1420.
- 2006 Classen AT (2006) Will herbivore range expansions exacerbate the effects of global climate change on soil microclimate? *CSA News* 51:1.
- contributed reports:
- 2014 Pett-Ridge et al. (2014) Research for Sustainable Bioenergy Workshop: Linking genomic and ecosystem sciences. Workshop report. The US Department of Energy.

Teaching

Frequently taught

- 2017- 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)

2010-2013 Advanced ecology (co-taught, MS/PhD)

2005-2014 Ecology & evolutionary biology seminar (MS/PhD)

International courses

2016 Climate Change Impacts Adaptation and Mitigation (co-taught, MS, online course)
Soil Ecology and Planetary Boundaries, Wageningen University (PhD)

2015 Science writing and editing, Aarhus University (MS/PhD)
Science writing and speaking, Estonian University of Life Sciences (MS/PhD)

2014 Science writing and speaking, 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)

Additional courses

2013 Mycorrhizal ecology (BS)
Graduate seminar on writing (MS/PhD)

2011 Advanced ecosystem ecology (BS)

2008-2014 Graduate Independent study (MS/PhD)
Undergraduate research (BS)

2008-2014 Undergraduate independent study (BS)

2009-2010 Science Education, Reading & Discussion seminar (PhD)

2008-2009 Introduction to faculty research (MS/PhD)

Selected awards

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 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	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)

Selected invited seminars

2018	American Society for Microbiology, MICROBE meeting (<i>plenary speaker</i>), USA The University of Vermont, Department of Biology, USA Concordia University, Canada Harvard Forest, Harvard University, 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 2 nd Global Soil Biodiversity Conference (<i>keynote</i>), China The University of New Hampshire, USA The University of Minnesota, USA The US Department of Energy TES/SBR meeting (<i>keynote</i>) 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 (<i>keynote</i>), 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

2017	INTERFACE Microbial Carbon Cycling workshop, Vermont, USA
	INTERFACE Carbon Models and Benchmarking workshop, Boston, 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 grants & awards to advisees

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 Post-doc grant (D. Hewins, declined) Fulbright scholar (K. Rewcastle, BS - honorable mention in 2015) Yates Fellowship (J. Moore, PhD)
2015	US National Science Foundation GRFP fellowship (A. Pheningworth, 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)
	US National Science Foundation GRFP fellowship (L. Breza, BS)
2012	Department of Energy Marvin L. Wesely Award (M. Cregger, PhD)
	US National Science Foundation GRFP fellowship (L. Moorhead, PhD)
2011	American Association of University Women American fellow (L. Souza, post-doc)
	US National Science Foundation GRFP honorable mention (J. Moore, PhD)
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)

Prior graduate students (& where they are now)

2017	Jeremiah Henning, PhD: Post-doc, University of Minnesota, USA
2017	Leigh Moorhead, PhD: University of Tennessee, USA
2017	Elizabeth Dent, MS: University of Copenhagen, Denmark
2016	Jessica Moore, PhD: Post-doc, University of New Hampshire, USA
2015	Aurelija Petkevičienė, MS: The State Plant Service, Ministry of Agriculture, Lithuania
2013	Emily Austin, PhD: Post-doc, University of New Hampshire, USA
2012	Melissa Cregger, PhD: Staff Scientist, Oak Ridge National Lab, USA
2008	Colleen Iversen, PhD (co-advised with Richard Norby): Senior Staff Scientist, Oak Ridge National Lab, USA

Current graduate students

2017-	Kenna Rewcastle, PhD (University of Vermont, USA; co-advised with Nate Sanders)
2017-	Emily Piche, MS (University of Vermont, USA)
2015-	Justyna Giejsztowt, PhD (Victoria University of Wellington, New Zealand; co-advised with Julie Deslippe)

External examiner & student lab rotations

2018	Fiona Jevon, PhD (Dartmouth College)
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)
2015-2016	Ji “Sonamkyi” Suonan, PhD (Peking University, China)
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

2016	Carla Brenda Maldonado Goyzueta (PhD); Quentin Read (PhD)
2015	Lacy Chick (PhD)
2014	Sara Kuebbing (PhD); Rafael Zenni (PhD); Jeremy Chandler (PhD)
2013	Melissa Burt (MS); Denise Kendall (PhD)
2012	Katie Stuble (PhD); Noelia Barrios (PhD); Amanda Alison (MS); Keith Post (PhD); Emmi Felker-Quinn (PhD); Joe Huges (PhD)
2010	Jarrold Blue (MS)
2009	Greg Crutsinger (PhD)
2008	Lara Souza (PhD); Windy Bunn (MS); Martin Nuñez (PhD)

Previous postdoctoral fellows (& where they are now)

2015-2018	Daan Blok, Policy Officer, Netherlands Polar Research Program at the Netherlands Organization for Scientific Research
2014-2017	Maja Sundqvist, Assistant Professor, Umeå University, Sweden
2012-2015	Jiang Jiang, Assistant Professor, Nanjing Forestry University, China
2010-2012	Emily Moran, Assistant Professor, University of California, Merced, USA
2009-2012	Lara Souza, Assistant 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 Scientist, University of Tennessee, USA

Postdoctoral fellows & Assistant professors

2017-	Xin Jing
2017 -	Case Prager
2017-	Emily Meineke
2015-	Erin Cameron
2014-	Annelein Meisner

Visiting post-docs, faculty & teachers

2018-2019	Cancan Zhao, Lecture of Ecology, Henan University, China
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2018	Wenting Feng, Scientist, Chinese Academy of Agricultural Sciences in Beijing
2016, 2017	Xin Jing, post-doc, Peking University
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

Undergraduate advising & mentoring

Undergraduate honors thesis Chair

2018	Colleen Yancey (UVM, biology)
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Undergraduate academic advisees (current)

2017-2018	Caleb Basa; Julie Belanger, Pat Casselberry; Sarah Clark; Adam Claussen; Kacey Clougher; Emma Collins; Tanner Fields; Kayla Freischlag; Dylan Funnell; Becky Hart; Cooper Hayes; Yuli He; Sam Kilburn; Katie Kobylaski; Mia Kosel; Nathaniel Launer; Shelby Long; Samuel McClellan; Caili Orem; David Owusu; Phoebe Paron; Julia Pupko; Morgan Schwartz; Alex Smith; Mike Thomas-Adam; Ryan Van Horn; Yiyi Wen; Jennifer Xu
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Undergraduate academic advisees (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

Undergraduate researchers, honors students, & high school interns

2017-	Joscie Norris (UVM); 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)
2011-2015	Undergraduate research & REU mentor, Rocky Mountain Biological Laboratory

Professional service & outreach to enhance diversity

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

Professional service & outreach

- 2017- NEON soil sensor technical working group
- 2017 Reviewer for Tenure and Promotion Files (2× USA research institutions)
- 2015 Reviewer for Tenure and Promotion Files (USA research institution)

National agency review panels

- 2015-2016 European Union BiodivERsA ERA-NET
- 2011 US NSF
- 2007 National Ecological Observatory Network (NEON) site reviewer

Professional society service (in addition to editorial duties)

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

Steering committees

- 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

- 2008-2016 The Royal Society PanAfrica Awards, UK; National Science Foundation Ecology Panel; National Science Foundation Ecosystems Panel; 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; U.S. Civilian Research & Development Foundation (CRDF); U.S. Department of Energy Office of Science Graduate Fellowship (SCGF) Program; Department of Energy NICCR program; Department of Energy Program for Ecosystem Research; Department of Energy SCGF Program; European Union

Reviewer for journals (selected)

- 2008-2016 *Australian Journal of Soil Research, BioScience, Biological Invasions, Canadian Journal of Forest Research, Conservation Biology, Ecological Applications, Ecological Monographs, Ecology, Ecology Letters, Ecosystems, Functional Ecology, Ecosphere, Global Change Biology, Isotopes in Health and Environmental Studies, Journal of Ecology, 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

University, Museum & Organization service

2017-now	Chair, Committee on Academic Benchmarking for the Rubenstein School Chair, Research Vision committee, Rocky Mountain Biological Laboratory Graduate Standards committee, University of Vermont Strategic Planning committee, Rocky Mountain Biological Laboratory
2016-now	Facilities committee, Rocky Mountain Biological Laboratory
2016-2017	Chair, Facilities committee, Rocky Mountain Biological Laboratory Directors Review 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

Abstracts and contributed papers

2008-2016	Ecological Society of America (>45); Oikos meeting (1); American Geophysical Union (>5); European Geophysical Union (3); EUReCA, Undergraduate Research Fair (11); Soil Ecology (6); Soil Science Society of America (6); Association of Southeastern Biologists (4); American Society for Microbiology (>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
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(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)