# E. Ashley Shaw

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## **EDUCATION**

2018	PhD, Ecology, Colorado State University, Fort Collins, Colorado	
	Dissertation: Trophic relationships in soil communities: How abiotic stress affects biotic interactions in the McMurdo Dry Valleys, Antarctica	
2013	MSc, Ecology, Colorado State University, Fort Collins Colorado Thesis: Fire management effects on C flow from root litter to the soil community in a tallgrass prairie	
2010	BA (magna cum laude), Biology, Bellarmine University, Louisville, Kentucky	

# **PROFESSIONAL EXPERIENCE**

2018-present	Postdoctoral Scholar, Institute for Ecology and Evolution, University of Oregon
2010-2018	Graduate Research Assistant, Colorado State University
2010, 2015, 2016	Graduate Teaching Assistant, Colorado State University
2010	Microbiology Intern, Skidaway Institute of Oceanography

## PEER-REVIEWED PUBLICATIONS (\*denotes student mentee author)

14 published articles, 1 article in press, 2 articles in review ~740 citations; b-index = 11; i10 index = 11 ORCID: https://orcid.org/0000-0002-4768-3465

- 15. **Shaw, EA,** CT White\*, WL Silver, KN Suding, and LM Hallett. In press at *Journal of Ecology*. Intra-annual precipitation effects on annual grassland productivity and phenology are moderated by plant community responses.
- 14. Hernández, E\*, **EA Shaw**, L Aoyama\*, A Brambila\*, C Niederer, SB Weiss, and LM Hallett. 2021. *Restoration Ecology*. Fire versus grazing as tools to restore serpentine grasslands under global change.
- Ankrom, KE, ALC Franco, SJ Fonte, LA Gherardi, CM de Tomasel, WS Andriuzzi, EA Shaw, OE Sala, and DH Wall. 2020. Ecto- and endoparasitic nematodes differ in response to precipitation across a temporal, but not a spatial gradient in western US grasslands. *Oecologia*. https://doi.org/10.1007/s00442-020-04708-7
- 12. Shaw, EA and DH Wall. 2019. Biotic interactions in experimental Antarctic soil microcosms vary with abiotic stress. *Soil Systems*. 3 (3). https://doi.org/10.3390/soilsystems3030057
- Franco, ALC, LC Gherardi, CM de Tomasel, WS Andriuzzi, KE Ankrom, EA Shaw, EM Bach, OE Sala, and DH Wall. 2019. Drought suppresses soil predators and promotes root herbivores in mesic, but not in xeric grasslands. PNAS. https://doi.org/10.1073/pnas.1900572116
- Shaw, EA, CM Boot, JM Moore, DH Wall, and J Baron. 2019. Nitrogen addition affects the soil nematode community structure and maturity in a subalpine forest. *Soil Biology and Biochemistry*. 130: 177-184. https://doi.org/10.1016/j.soilbio.2018.12.007
- Shaw, EA, BJ Adams, JE Barrett, WB Lyons, RA Virginia, DH Wall. 2018. Stable C and N isotope ratios reveal soil food web structure and identify the nematode Eudorylaimus antarcticus as an omnivore-predator in Taylor Valley, Antarctica. *Polar Biology*. https://doi.org/10.1007/s00300-017-2243-8
- García-Palacios, P, EA Shaw, DH Wall, S Hättenschwiler. 2017. Contrasting mass-ratio vs. niche complementarity effects on litter C and N loss during decomposition along a regional climatic gradient. *Journal of Ecology*. 105: 968–978. doi:10.1111/1365-2745.12730
- 7. **Shaw, EA**, K Denef, C Milano de Tomasel, MF Cotrufo, and DH Wall. 2016. Fire affects root decomposition, soil food web structure and carbon flow in tallgrass prairie. *SOIL*. DOI: 10.5194/soil-2-199-2016

- 6. Andrés, P, JC Moore, RT Simpson, G Selby, F Cotrufo, K Denef, ML Haddix, **EA Shaw**, C Milano de Tomasel, R Molowny-Horas, DH Wall. 2016. Soil food web stability in response to grazing in a semi-arid prairie: the importance of soil heterogeneity. *Soil Biology and Biochemistry*. DOI: 10.1016/j.soilbio.2016.02.014
- 5. García-Palacios, P, **EA Shaw**, DH Wall, S Hättenschwiler. 2016. Temporal dynamics of biotic and abiotic drivers of litter decomposition. *Ecology Letters*. DOI: 10.1111/ele.12590
- 4. Soong, JL, ML Vandegehuchte, AJ Horton, UN Nielsen, K Denef, EA Shaw, C Milano de Tomasel, W Parton, DH Wall, and MF Cotrufo. 2016. Soil microarthropods support ecosystem productivity and soil C accrual: evidence from a litter decomposition study in the tallgrass prairie. *Soil Biology and Biochemistry*. 92: 230 238. DOI: 10.1016/j.soilbio.2015.10.014
- García-Palacios, P, M Vandegehuchte, EA Shaw, M Dam, KH Post, KS Ramirez, ZA Sylvain, C Milano de Tomasel, and DH Wall. 2015. Are there links between responses of soil microbes and ecosystem functioning to elevated CO2, N deposition and warming? A global perspective. *Global Change Biology*, 21: 1590–1600. DOI: 10.1111/gcb.12788
- Ramirez, KS, JW Leff, A Barberan, ST Bates, J Betley, TW Crowther, EF Kelly, EE Oldfield, EA Shaw, C Steenbock, MA Bradford, DH Wall, and N Fierer. 2014. Biogeographic patterns in below-ground diversity in New York City's Central Park are similar to those observed globally. *Proceedings of the Royal Society B*. http://dx.doi.org/10.1098/rspb.2014.1988
- Cotrufo, MF, T Nguyen, J Soong, ML Vandegehuchte, K Denef, UN Nielsen, EA Shaw, Z Sylvain, C Milano de Tomasel, and DH Wall. 2014. Napthalene addition to soil surfaces: an effective method to suppress soil microarthropods with negligible direct effects on soil C dynamics. *Applied Soil Ecology*, 74: 21-29. DOI: 10.1016/j.apsoil.2013.09.008

## Manuscripts in review (full text available):

Lee JR, A Terauds, J Carwardine, JD Shaw, RA Fuller, HP Possingham, SL Chown, P Convey, N Gilbert, KA Hughes, E McIvor, S Robinson, Y Ropert-Coudert, D Bergstrom, EM Biersma, C Christian, D Cowan, Y Frenot, S Jenouvrier, L Kelley, MJ Lee, H Lynch, B Njåstad, P Ortuzar, R Roura, **EA Shaw**, D Stanwell-Smith, M Tsujimoto, A Quesada, DH Wall, A Wilmotte, I Chadès. In review. Threat management priorities to conserve Antarctic biodiversity.

Shaw, EA and LM Hallett. In review. Drought seasonality drives plant functional diversity's effects on productivity and alters the retention of soil carbon and nutrients.

## Manuscripts in preparation (full draft available):

Shaw, EA and DH Wall. Soil food web complexity varies with carbon source across the McMurdo Dry Valley landscape.

Muehleisen, AJ, CT White\*, LS Shoemaker, K Suding, **EA Shaw,** LM Hallett. Fitness differences override variationdependent coexistence mechanisms in California grasslands.

EA Shaw, H Stover, CT White\*, W Silver, K Suding, and LM Hallett. Rangeland compost amendments increase forage production and improve resilience to drought.

# GRANTS AND AWARDS

## (Total amount awarded to date: \$184,782)

- Pending. USDA National Institute of Food and Agriculture, program area priority: Soil Health (written by Shaw; Co-PDs Lauren Hallett, Whendee Silver and Rebecca Ryals). "Do Soil Biotic Communities Mediate The Effect Of Compost Amendments On Rangeland Soil Carbon?" \$750,000
- UO Biology Department's Diversity, Equity and Inclusion Grant (written and lead by Shaw; Co-PI Lauren Hallett). "Ensuring safe, inclusive, and equitable field work experiences through field safety training" \$1,000
- USDA National Institute of Food and Agriculture Postdoctoral Fellowship (2020) \$164,131 "Effects of land management on belowground ecosystem functions: A soil ecology approach"
- AntEco Committee Travel Award for meeting attendance at the Scientific Committee for Antarctic Research (SCAR) meeting in Belgium (2018) \$1000
- Antarctic Science International Bursary to early career researchers; international collaboration to spatially model soil habitat & prioritize Antarctic dry valleys' conservation areas. PIs: **EA Shaw** & J Lee, Univ. Queensland, AUS (2017) *\$4855*

- National Science Foundation Travel Awards to attend Scientific Committee for Antarctic Research (SCAR) meetings in Switzerland, Belgium, Malaysia, & New Zealand (2018, 2017, 2016, 2014) *\$6888 total*
- Graduate Degree Program in Ecology Travel Awards at CSU for science meetings (2018, 2017, 2016, 2013) \$2025 total
- Natural Resource Ecology Laboratory Graduate Student Travel Award; Awarded at Colorado State University for SCAR meeting in New Zealand (2014) \$500
- Best Student Paper, runner-up; Society of Nematologists Annual Meeting, Knoxville, Tennessee (2013)
- Department of Biology Graduate Student Travel Award, CSU (2012) \$633
- Programs for Research and Scholarly Excellence Fellowship; Natural Resource Ecology Lab, CSU (2011) \$2500
- Graduate Fellowship; Graduate Degree Program in Ecology, Colorado State University (2011) \$750

### ACADEMIC SERVICE AND LEADERSHIP

2021 Certified Prevention Trainer, Building a Better Fieldwork Future (BBFF): Preventing Sexual Harassment and Assault in Field Settings workshop 2019-2020 Application Reviewer, Inspiring Girls Expeditions 2018-2019 Seminar Speaker Selection Committee Member, Institute for Ecology and Evolution University of Oregon 2015-2017 Graduate Student Representative for the McMurdo Dry Valleys, Antarctica LTER site NSF Long Term Ecological Research (LTER) program 2016, 2017 Lead organizer, McMurdo LTER Annual Graduate Student Showcase Launched an annual virtual meeting for McMurdo LTER graduate students to discuss their research; this annual meeting is currently ongoing Organized 19 speakers from 8 universities (2016) & 18 speakers from 9 universities (2017) 2016 Organizing committee member, McMurdo Dry Valleys Environmental Stewardship Workshop NSF funded workshop on human impact in McMurdo Dry Valleys, Antarctica Final report: https://mcmlter.org/sites/default/files/Priscu MDV 2016 workshop FINAL.pdf 2013-2016 Ecology committee student representative, Society of Nematologists 2011-2013 Student committee co-chair, Society of Nematologists 2010-2012 Outreach committee member, Front Range Student Ecology Symposium, Colorado State Univ. 2011 Student Volunteer, Ecological Society of America Annual Meeting, Austin, TX **PROFESSIONAL DEVELOPMENT** 2019 Diversity Training Workshop and Research Symposium, University of Oregon Postdoctoral Association, University of Oregon 2019 Scientific Literacy Journal Club, Scientific Literacy Program, University of Oregon Teaching Undergraduate Science: A Guide to Overcoming Obstacles in Student Learning 2019 Lab Lit Book Club, Scientific Literacy Program, University of Oregon 2019 Teaching Engagement Program classroom discussion workshop series, Center for Academic Learning, University of Oregon Strategies for Discussion Leaders Advanced Strategies for Discussion Leaders: Difficult Dialogues Critical Inquiry and Ethical Dialogue 2018 UC Sierra Foothills Research and Extension Center, Workshop and Demonstration on Rangeland Compost Research Trials 2017 Invited participant, Priority Threats Management Workshop, Leuven, Belgium Assessed impacts on Antarctic biology under climate change scenarios; SCAR funded

- 2016 Getting to know geographic data, GIS Workshop, Geospatial Centroid, Colorado State Univ.
- 2016 Move beyond simple R scripts: an introduction to R Markdown workshop, Colorado State Univ.
- 2015 Story mapping workshop, Geospatial Centroid, Colorado State University
- 2014 Science Communication Workshop, Association for Polar Early Career Scientists Scientific Committee for Antarctic Research conference Auckland, New Zealand
- 2011 Nematode identification course (Instructor: T. Bongers), Wageningen Univ., The Netherlands
  - Learned terrestrial soil/plant nematode species' morphology and taxonomy

**INVITED AND CONTRIBUTED ORAL PRESENTATIONS** (\*denotes student mentee author) **EA Shaw,** H Stover, CT White\*, W Silver, K Suding, and LM Hallett. 2021. The effects of compost amendments on rangeland ecosystem services. Ecological Society of America annual meeting.

Muehleisen, AJ, CT White\*, LS Shoemaker, K Suding, **EA Shaw**, LM Hallett. 2021. Fitness differences override variation-dependent coexistence mechanisms in California grasslands. Ecological Society of America annual meeting.

**EA Shaw.** 2020. Resource Availability and Soil Trophic Interactions: The Role of Nematode Communities in Soil Carbon Storage. Soil Science Society of America. **Invited**. Symposium: Unsung Heroes of the Underworld: How Viruses, Biocrusts, and Nematodes Contribute to Nutrient Cycling and Carbon Sequestration

**EA Shaw,** E Hernández\*, L Aoyama\*, A Brambila\*, C Niederer, SB Weiss, and LM Hallett. 2020. Fire and grazing as restoration tools in a California serpentine grassland impacted by global change: Evidence from long-term monitoring data. Ecological Society of America annual meeting. **Invited**. Organized Session: Leveraging Monitoring Data to Improve Restoration Forecasts.

Shaw, EA, JR Lee, A Terauds, and DH Wall. 2018. Habitat suitability and conservation of McMurdo Dry Valley soil biodiversity. POLAR 2018: Scientific Committee for Antarctic Research Open Science Conference, Davos, Switzerland.

**Shaw, EA**, BJ Adams, JE Barrett, RA Virginia, and DH Wall. 2017. Does the stress gradient hypothesis apply to soil food webs? Testing the biotic interactions of soil nematodes along a salinity gradient at the McMurdo Dry Valleys Long Term Ecological Research site. Ecological Society of America annual meeting, Portland, OR.

**Shaw, EA**, BJ Adams, RA Virginia, and DH Wall. 2016. Identifying the carbon sources of the soil food webs in the McMurdo Dry Valleys, Antarctica, Scientific Committee for Antarctic Research Open Science Conference, Kuala Lumpur, Malaysia.

Shaw, EA, BJ Adams, RA Virginia, and DH Wall. 2016. Identifying the carbon sources of soil food webs in the McMurdo Dry Valleys, Antarctica, Ecological Society of America annual meeting, Fort Lauderdale, FL.

Shaw, EA, MF Cotrufo and DH Wall. 2013. Biomass estimates of nematode energy channels indicate carbon flow for decomposition studies. Society of Nematologists Annual Meeting, Knoxville, TN.

**Shaw, EA**, K Denef, MF Cotrufo, DH Wall. 2012. Tracing Carbon Flow through the Soil Nematode Food Web: Do Long-Term Burning Practices Affect Carbon Trophic Dynamics in Grasslands? Society of Nematologists Annual Meeting, Savannah, GA.

**Shaw, EA**, K Denef, MF Cotrufo, DH Wall. 2012. Following Carbon through the Soil Food Web: Do Long-Term Burning Practices Affect Carbon Trophic Dynamics in Grasslands? Ecological Society of America Annual Meeting, Portland, OR.

Vandegehuchte, ML, UN Nielsen, **EA Shaw**, JL Soong, ZA Sylvain, CM Tomasel, MF Cotrufo, DH Wall. 2012. Variation in abundance of soil mesofauna trophic groups with depth, season, and litter quality: Implications for the study of decomposition. Ecological Society of America Annual Meeting, Portland, OR.

**Shaw, EA**, K Denef, MF Cotrufo, DH Wall. 2012. Following Carbon through the Soil Food Web: Do Long-Term Burning Practices Affect Carbon Trophic Dynamics in Grasslands? Front Range Student Ecology Symposium, Fort Collins, CO.

## **CONTRIBUTED POSTER PRESENTATIONS** (\*denotes student mentee author)

**Shaw, EA**, and DH Wall. 2018. Elevated soil salinity alters biotic interactions in the McMurdo Dry Valleys. POLAR 2018: Scientific Committee for Antarctic Research Open Science Conference, Davos, Switzerland.

Shaw, EA, A Thompson, Z Aanderud, BJ Adams, and DH Wall. 2017. The nematode, *Scottnema lindsayae*, rapidly incorporated a new source of carbon in a microcosm experiment in Taylor Valley, Antarctica. Scientific Committee for Antarctic Research Biology Meeting, Leuven, Belgium.

J Baron, SM Advani, J Allen, C Boot, K Denef, S Denning, E Hall, JC Moore, H Reuth, MG Ryan and **EA Shaw**. 2016. A Long-term Forest Fertilization Experiment to Understand Ecosystem Responses to Atmospheric Nitrogen Deposition. American Geophysical Union, San Francisco, CA.

Shaw, EA, BJ Adams, RA Virginia, and DH Wall. 2015. Exploring the soil food web structure and carbon dynamics of the McMurdo Dry Valleys LTER, Antarctica. Long Term Ecological Research All Scientist Meeting, Estes Park, CO.

**Shaw, EA**, BJ Adams, RA Virginia, and DH Wall. 2014. Dry valley soil food web structure and complexity is related to decadal trends in climate variation. Scientific Committee for Antarctic Research Open Sc. Conference, Auckland, NZ

Cox, DJ\*, CM de Tomasel, **EA Shaw**, and DH Wall. 2013. Laboratory culture of nematode *Panagrolaimus davidi* from Cape Royds, Antarctica. Celebrate Undergraduate Research and Creativity, CSU, Fort Collins, CO.

de Tomasel, CM, KL Ivanovich\*, DJ Cox\*, **EA Shaw**, DH Wall. 2012. Establishing Standardized Methods For Analysis of Carbon in Soil Nematodes and Mites. Society of Nematologists Annual Meeting, Savannah, GA.

**Shaw, EA**, DH Wall, MF Cotrufo, JL Soong, and UN Nielsen. 2011. Do long-term burning practices affect carbon and nitrogen flow dynamics from grassland root litter through the soil food web? Ecological Society of America Annual Meeting, Austin, TX.

**Shaw, EA**, DH Wall, MF Cotrufo, JL Soong, and UN Nielsen. 2011. Do long-term burning practices affect carbon and nitrogen flow dynamics from grassland root litter through the soil food web? Grasslands in a Global Context Symposium, Konza Prairie Biological Station, Manhattan, KS.

# TEACHING AND MENTORING EXPERIENCE

University of Oregon, Experiencing Science Practices through Research to Inspire Teaching (ESPRIT) <i>Project Mentor</i> for two undergraduate summer interns	2019 & 2021
<ul> <li>Helped train highly qualified science teachers by mentoring summer science research experience interns, supporting overall program goals to recruit and develop innovative and inclusive K-12 s</li> <li>2019 mentee won ESPRIT's competitive full-tuition M. Ed. and is currently teaching in a high r</li> </ul>	science teachers
<ul> <li>University of Oregon, Environmental Studies Program, Eugene, OR</li> <li><i>Guest Lecturer</i> for course, "Introduction to Environmental Studies" (Prof. Lauren Hallett)</li> <li>Gave lectures about global population and the nitrogen cycle</li> </ul>	Fall 2018 & 2019
<ul> <li>Colorado State University, Biology Department, Fort Collins, CO</li> <li><i>Graduate Teaching Assistant</i> for course, "Animal Biology: Invertebrates" (Prof. Janice Moore)</li> <li>Taught two laboratory sections (~20 students per section) each fall on invertebrate diversity; determined weekly curricula, wrote and graded laboratory exams, quizzes, and assignments</li> </ul>	Fall 2014 & 2015 signed and
<ul> <li>Colorado State University, Soil and Crop Sciences Department, Fort Collins, CO</li> <li><i>Guest Lecturer</i> for course, "Soils and Global Change: Science and Impacts" (Prof. Francesca Cotrufo)</li> <li>Gave lectures about global changes' impacts on soil biodiversity and their functions</li> </ul>	2012, 2014, 2015
<ul> <li>Colorado State University, Fort Collins, CO</li> <li><i>Honors Thesis Co-advisor</i> for two undergraduate students on their senior honors theses</li> <li>Guided from study design to thesis write-up on soil fauna isotope project and nematode culturing presented results at "Celebrate Undergraduate Research and Creativity Showcase"</li> </ul>	2010 & 2013 ng project; both
<ul> <li>Colorado State University, Biology Department, Fort Collins, CO</li> <li><i>Graduate Teaching Assistant</i> for course, "Biology of Organisms, Animals and Plants"</li> <li>Taught two laboratory sections (~20 students per section) on animal and plant taxonomy and p wrote and graded laboratory exams, quizzes, and assignments</li> </ul>	Fall 2010 hysiology;
<ul> <li>Galen College of Nursing, Louisville, KY Assistant Lab Instructor for Anatomy and Microbiology courses <ul> <li>Prepared all laboratory materials; made sterile agar plates, maintained laboratory cultures; set up student activities; edited assignments, proctored and graded exams</li> </ul></li></ul>	2009-2010 laboratory for

2013

Mentees at Colorado State University (all undergraduates): Deanna Cox (Honors Thesis), Kyrie Ivanovich (Honors Thesis), Diana Granados, Emily Bernier, Amber Cavin, Nisha Gill, Abby Jackson, Willa Beaton, and Dominique White Mentees at the University of Oregon: Maya Treder (undergraduate, ESPRIT intern), Marlea Goulet (undergraduate), Natalie Kataoka (undergraduate), Joey Decker (undergraduate), Anna Brown (undergraduate), Justin Day (undergraduate, ESPRIT intern and scholarship recipient), Jesse Yang (undergraduate), Lina Aoyama (PhD student), Eliza Hernandez (masters student), Alejandro Brambila (PhD student), and Caitlin White (PhD Student, UC-Boulder) **OUTREACH ACTIVITIES** Radio interviewee AgNet West Radio Network. Discussed soil health and beneficial invertebrates in rangeland ecosystems. 2021 **Presenter and Participant** UC Sierra Foothills Research and Extension Center, Ranching and Range Management in a Drying Climate Workshop. "Emerging understanding of rangeland management under a drying and more variable climate" 2019 Blog contributor

#### "How do nematodes help plants and soil?" written for the Soil Science Society of America's blog, Soil Matters https://soilsmatter.wordpress.com/2021/05/15/how-do-nematodes-help-plants-and-soils/ 2021 "Are there predators in Antarctic soil?" written for the Global Soil Biodiversity Initiative's blog, Beneath our feet www.globalsoilbiodiversity.org/blog-beneath-our-feet/2018/2/6/are-there-predators-in-antarctic-soils 2018 Diana Wall's lab and Antarctic fieldwork blog, https://nemablog.wordpress.com/ 2013-2017

#### Antarctic Lecture Series speaker

Antarctic Lecture Series speaker	2016
Invited speaker, gave lecture entitled, "The toughest creatures in the world: Soil life in the Antarctic Dry Valleys" at the	
Fort Collins Public Library, Fort Collins, CO	

#### Antarctic Lecture Series coordinator

Organized three public lectures through the School of Global Environmental Sustainability, Colorado State University and the Fort Collins Public Library, Fort Collins, CO

## FIELD EXPERIENCE

Nutrient Network sites, Cascades, Oregon (2019 - 2021): collected plant community data, plant biomass and soil samples, and applied fertilizer treatments following Nutrient Network experimental protocols at 2 sites in the Cascades

Sierra Foothills Research and Extension Center, California (2018 - 2021): tested the effects of compost amendments on rangeland ecosystem functions across precipitation treatments (drought, ambient, irrigated/wet)

McMurdo Dry Valleys Long Term Ecological Research site, Antarctica (2013, 2015, 2016, 2017): studied soil food web distributions in Antarctica, relationships with C sources, climate change effects

Loch Vale Watershed, Rocky Mountain National Park, Colorado, USA (2014, 2015): investigated the impact of elevated nitrogen deposition on soil nematode community function in a subalpine forest of Rocky Mountain National Park

Central Park, New York City, New York, USA: characterized the soil microbiome of Central Park

Shortgrass Steppe, Colorado: Above-belowground project (led by Drs. Osvaldo Sala and Diana Wall): plant community and soil community responses to drought

Konza Prairie, Manhattan, KS (2010, 2011, 2012, 2013) traced stable isotopes 13C and 15N from decaying grasses into soil microbes and fauna and collected all data from published papers for lab group meta-analysis on soil biota and global changes

Atlantic Ocean Research cruise, Skidaway Institute of Oceanography, Savannah, Georgia, USA (2010); surveyed pelagic upwellings to study effects on doliolid populations in the Atlantic Ocean

# **PROFESSIONAL MEMBERSHIP**

- Ecological Society of America (ESA)
- American Association for the Advancement of Science (AAAS)
- Association of Polar Early Career Scientists (APECS)
- Global Soil Biodiversity Initiative (GSBI), Participant
- Society of Nematologists (SON)
- Soil Ecology Society (SES)
- Soil Science Society of America
- 500 Women Scientists

# **POSTDOCTORAL ADVISOR**

Dr. Lauren Hallett, University of Oregon

# PHD ADVISORS

Advisor: Dr. Diana Wall, Colorado State University Committee: Drs. Mary Stromberger (CSU), Jill Baron (USGS), Michael Gooseff (CU-Boulder)

# MS ADVISORS

Advisor: Dr. Diana Wall, Colorado State University Committee: Drs. Francesca Cotrufo, Gene Kelly (CSU)