

Sarah R. Supp

Assistant Professor

Data Analytics Program

Denison University

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Citations: <http://tinyurl.com/scholar-srsupp>

PROFESSIONAL APPOINTMENTS

- 2017 Assistant Professor - Department of Data Analytics
Denison University
- 2014-2017 National Science Foundation Postdoctoral Research Fellow
Intersections of Biology and Mathematical and Physical Sciences
Host Institutions: University of Maine and University of Vermont
Visiting Institution: University of Wisconsin-Madison, Department of Geography
Supporting Scientists: Brian J. McGill, Nicholas J. Gotelli, and John W. Williams
- 2013 – 2014 Postdoctoral Research Associate
Stony Brook University - Ecology and Evolution Department
Advisor: Catherine H. Graham

EDUCATION

- 2007 – 2013 Ph.D. in Ecology
Utah State University - Department of Biology & The Ecology Center
Dissertation: Local and regional drivers of biodiversity: From life-history traits to system-level properties
Advisor: S. K. Morgan Ernest
- 2007 B.S. Biology, *magna cum laude*, minors in Chemistry and Spanish
Valparaiso University - Department of Biology
Advisor: Laurie S. Eberhardt

RESEARCH EXPERIENCE

- 2014-2017 **National Science Foundation Postdoctoral Fellow.** Dynamic Macroecology: Globally assessing body size diversity response in plant and animal communities. NSF Postdoctoral Research Fellowship – Intersections of Mathematical, Physical, and Engineering Sciences and Biology: Sarah R. Supp, P.I.
- 2013-2014 **Postdoctoral Research Associate.** Using time-series, ecology, and physiology to predict climate change impacts on hummingbird biodiversity. NASA Biodiversity Grant: Catherine Graham, Scott Goetz, Susan Wethington, and Don Powers, P.I.s
- 2007-2013 **Graduate Research Assistant.** Long-term monitoring and manipulation of a desert ecosystem. S. K. Morgan Ernest, P.I.
- 2010 **Graduate Research Assistant.** Advancing macroecology using informatics and entropy maximization. Ethan P. White, P.I.
- 2009 **Graduate Research Assistant.** Mammalian community database. Ethan P. White, P.I.
- 2007 **ASIANetwork Research Fellow.** Water quality in east central China and northwest Indiana: issues, perceptions, and approaches for resolution. Jonathan Schoer, P.I.

PUBLICATIONS

1. Bowler, D.E., A. Bjorkman, L. Navarro, A. Niamir, C. Waldock, M. Dornelas, M.I. O'Connor, **S.R. Supp**, K. Bohning-Gaese, H. Bruelheide, R. Elahi, L. Henriques Antao, J. Hines, F. Isbell, H. Jones, A. Magurran, J. Sarmiento Cabral, M. Winter, M. Vellend, A.E. Bates. *In review*. The geography of the Anthropocene differs between the land and the sea. *Science*.
2. Bannar-Martin, K.B., C. Kremer, S.K.M. Ernest, M.A. Leibold, H. Auge, J. Chase, S. Declerck, N. Eisenhauer, S. Harpole, H. Hillebrand, F. Isbell, T. Koffel, S. Larsen, A. Narwani, J.S. Petermann, C. Roscher, J. Sarmiento Cabral, **S.R. Supp**. *In review*. Community Assembly and the Functioning of Ecosystems: integrating community assembly and biodiversity to better understand ecosystem function. *Ecology Letters*.
3. Dornelas, M., and BioTIME consortium (200+ authors). *in revision*. BioTIME: a database of biodiversity time-series for the Anthropocene. *Global Ecology and Biogeography. data paper*
4. Graham, L.J., B.G. Weinstein, **S.R. Supp**, and C.H. Graham. 2017. Future geographic patterns of novel and disappearing assemblages across three dimensions of diversity: A case study with Ecuadorian hummingbirds. *Diversity and Distributions*. doi: [10.1111/ddi.12587](https://doi.org/10.1111/ddi.12587)
5. Hampton, S.E., M.B. Jones, L.A. Wasser, M.A. Schildauer, **S.R. Supp**, J. Brun, R.R. Hernandez, C. Boettiger, S.L. Collins, L.J. Gross, D.S. Fernandez, A. Budden, E.P. White, T.K. Teal, S. Labou, J.E. Aukema, J. Regetz. 2017. Skills and knowledge for data-intensive environmental research. *BioScience*. 67: 546-557. doi: [10.1093/biosci/bix025](https://doi.org/10.1093/biosci/bix025)
6. Graham, C.H., **S. R. Supp**, D.R. Powers, P.A. Beck, M.C.W. Lim, A. Shankar, T.A. Cormier, S.J. Goetz, and S. Wethington. 2016. Winter conditions influence biological response of migrating hummingbirds. *Ecosphere*. doi: [10.1002/ecs2.1470](https://doi.org/10.1002/ecs2.1470)
7. Ernest, S.K.M., G.M. Yenni, G. Allington, E.M. Christensen, K. Geluso, J.R. Goheen, M.R. Schutzenhofer, **S.R. Supp**, K.M. Thibault, J.H. Brown, T.J. Valone. 2016. Long-term monitoring and experimental manipulation of a Chihuahuan Desert ecosystem near Portal, Arizona, USA (1977-2013). *Ecology*. doi:[10.1890/15-2115.1](https://doi.org/10.1890/15-2115.1)
8. **Supp, S. R.**, D. N. Koons, and S. K. Morgan Ernest. 2015. Using life history trade-offs to understand core-transient structuring of a small mammal community. *Ecosphere*. 6: art187. doi: [10.1890/ES15-00239.1](https://doi.org/10.1890/ES15-00239.1)
9. **Supp, S. R.**, F.A. La Sorte, T.A. Cormier, M.C.W. Lim, D.R. Powers, S.M. Wethington, S.J. Goetz, and C.H. Graham. 2015. Citizen-science data provides new insight into annual and seasonal variation in migration patterns. *Ecosphere* 6: art15. doi: [10.1890/ES14-00290.1](https://doi.org/10.1890/ES14-00290.1)
10. Shaw, A.K., D.E. Stanton, **S.R. Supp**, A. Budden, S. Eby, P.L. Reynolds, R. Salguero-Gómez, D.R. Scholes, and N.B. Zimmerman. 2015. Ecology postdocs in academia: primary concerns and possible solutions. *Bulletin of the Ecological Society of America* 96: 140-152.
11. Scholes, D.R., D.E. Stanton, and **S.R. Supp**. 2014. ESA's Early Career Ecologist Section: Supporting the professional development of early career ecologists in all career trajectories. *Bulletin of the Ecological Society of America* 95: 435-438.
12. **Supp, S. R.** and S. K. M. Ernest. 2014. Species-level and community-level responses to disturbance: a cross-community analysis. *Ecology* 95: 1717-1723.
13. White, E. P., E. M. Baldrige, Z. T. Brym, K. J. Locey, D. J. McGlenn, and **S. R. -Supp**. 2013. Nine simple ways to make it easier to (re)use your data. *Ideas in Ecology and Evolution*. 6: 1-10.
14. **Supp, S. R.** 2013. Local and regional drivers of biodiversity: from life-history traits to system-level properties. Graduate Dissertation. Utah State University. <http://digitalcommons.usu.edu/etd/1503>
15. **Supp, S. R.**, X. Xiao, S. K. M. Ernest, and E. P. White. 2012. An experimental test of the response of macroecological patterns to altered species interactions. *Ecology*. 93: 2505-2511.
16. Cobbold, S. M. and **S. R. Supp**. 2012. Patch shape alters spider community structure: links between microhabitat choice and sensitivity to increased edge habitat. *Journal of Insect Conservation*. 4: 581-589.

17. Thibault, K. M., **S. R. Supp**, M. Giffin, E. P. White and S. K. M. Ernest. 2011. Species composition and abundance of mammalian communities. *Ecology*. 92: 2316.
18. **Supp, S. R.** and E.P. White. 2010. Measures of journal quality should separate reviews from original research. *Ideas in Ecology and Evolution*. 3: 16-19.
19. O'Donnell, R. **S.R. Supp** and S. M. Cobbold. 2010. Hindrance of conservation biology by delays in the submission of manuscripts. *Conservation Biology*. 24: 615-620.

MANUSCRIPTS

1. **Supp, S. R.**, L. Graham, T. A. Cormier, F. A. La Sorte, G. Bohrer, R. Weinzierl, K. Guay, P. Jantz, G. Bohrer, D. R. Powers, S. Wethington, S. J. Goetz, and C H. Graham. *In prep*. Alternate migration scenarios provide novel insights into environmental associations for migrating hummingbird populations in North America. *Royal Society Open Science*.
2. **Supp, S.R.**, Blowes, S., M. Dornelas, and sChange working group. *In prep*. Biogeographic patterns of biodiversity change through time are dominated by species replacement rather than species loss or gains. *Nature*.
3. O'Connor, M.I., M. Dornelas, B.J. McGill, and **S.R. Supp**, and sChange Working Group, et al. *In prep*. The signature of biodiversity change across scales. *Ecology Letters*
4. **Supp, S.R.** *In prep*. Predicting community body size distribution response in the Anthropocene.

DATA AND SOFTWARE PRODUCTS

1. Data Carpentry R Ecology **Lesson**. (one of many authors). 2017. zenodo. <https://zenodo.org/record/569875>.
2. **MACD**: Manipulated Animal Community Database. 2014. figshare. <http://dx.doi.org/10.6084/m9.figshare.969831>
3. **METE**: Software for Analyzing Harte et al.'s Maximum Entropy Theory of Ecology. E.P. White, D.J. McGlinn, X. Xiao, S.R. Supp, K.M. Thibault. figshare. <http://dx.doi.org/10.6084/m9.figshare.815905>
4. **portal-rodent-dispersal**: Accompanies the Supp, Koons, and Ernest project examining individual-level rodent trap data for 10-year time series at the Portal Project. Includes data & code to replicate analyses and figs. S.R. Supp. GitHub <https://github.com/weecology/portal-rodent-dispersal/>
5. **Experimental-rads**: Accompanies the Supp and Ernest project examining change in the rank-abundance distribution (rad), species richness, total abundance, and species composition in a wide variety of manipulated terrestrial animal communities. Includes data and code to replicate analyses and figures. S.R. Supp. GitHub. <https://github.com/weecology/experimental-rads/>
6. **PortalExperimentalMacroEco**: Accompanies the Supp, Xiao, Ernest, and White publication in *Ecology* (doi: 10.1890/12-0370.1). Includes data and code to replicate analyses and figures from the paper. S.R. Supp, X. Xiao. <https://github.com/sarahsupp/PortalExperimentalMacroEco/>
7. Experiments and the Rank Abundance Distribution (Slides from 2012 Ecological Society of America Conference). S.R. Supp. Figshare. <http://dx.doi.org/10.6084/m9.figshare.95835>
8. Experimental evidence suggests that richness and total abundance primarily determine macroecological patterns (slide deck from 2011 Ecological Society of America Conference). S.R. Supp. Figshare. <http://dx.doi.org/10.6084/m9.figshare.95850>
9. Online Presence for graduate students (presentation from 7 December 2012 Utah State University Ecolunch). S.R. Supp. Prezi. <http://prezi.com/yugz4zgd03qh/onlinepresence/>

TEACHING EXPERIENCE

Pedagogy Instruction

2014-2017 NSF Postdoctoral Research Fellowship

Fellowship includes funding allocated towards instruction, observation, and practice, and course development for integrating research with undergraduate learning objectives in the classroom.

- 2017 The Unique Challenges of Engaging and Teaching First Year Students. CIRTl workshop
2016 Undergraduate Research Mentor Training, CIRTl course
8-week course by Center for Integration of Research, Teaching, and Learning (CIRTl) on communicating and guiding as a mentor for undergraduate and graduate students
- 2016 Data Carpentry Instructor Certification
2015 An Introduction to Evidence-based Undergraduate STEM Teaching
8-week course by CIRTl on research-based methods for teaching and assessing undergraduate learning in STEM courses
- 2013 Software Carpentry Instructor training
10-week course, read "How Learning Works", wrote lesson plans and learning objectives, discussed teaching methods and student motivation
- 2007 Utah State University Teaching Assistant training
8-week course, read "McKeachie's Teaching Tips", evaluated on core teaching topics and methods

Courses Taught as Instructor

- 2016 Data Carpentry Workshop (University of Wisconsin-Madison)
2015 Software Carpentry Workshop (Women in Science & Engineering, Univ. of Michigan)
2014 Software Carpentry Bootcamp (Data Science Center, New York University)
2013 Software Carpentry Bootcamp (Women in Science & Engineering, MIT)
2012 Software Carpentry Bootcamp (Washington University at St. Louis)
2012 Evolutionary Biology (BIOL 5250, Utah State University)

Courses Taught as Teaching Assistant

** indicates Utah State University, [†]Valparaiso University, [‡]Utah Dept of Wildlife Resources*

- 2013 Software Carpentry Programming Bootcamp*
2012 Software Carpentry Programming Bootcamp*
2012 Introduction to R*[‡]
2010 Evolutionary Biology* (BIOL 5250)
2008 Ornithology* (BIOL 5560)
2007 Human Physiology* (BIOL 2420)
2007 Field Biology[†] (BIO 350)
2007 Science of the Indiana Dunes, for non-science majors[†] (NS 102)
2006 Ecology[†] (BIO 440)

Guest Lectures

- 2011 Macroecology, *Macroecology and Conservation** (BIOL 4750)
2011 Evolution, *Speciation and Systematics** (BIOL 5250)

Student Mentoring

- 2013 Andrea Nieto, Biology Undergraduate, University of Azuay, Ecuador
2013 Gabriela Samaniego, Biology Undergraduate, University of Azuay, Ecuador
2013-2014 Marisa Lim, Ecology and Evolution, Ph.D. Student, Stony Brook University
2013-2014 Anusha Shankar, Ecology and Evolution, Ph.D. Student, Stony Brook University
2013-2014 Ben Weinstein, Ecology and Evolution, Ph.D. Student, Stony Brook University

Outreach

- 2014 Grades 9-12 Discussion. *Female Scientists that Code* (Baldwin School, Bryn Mawr, PA)
2011 Grades K-6 Science Lesson. *What is a Scientist?* (District 33, Hastings, NE)
2004 – 2007 Earthtones environmental education team (Valparaiso University)

GRANTS AND AWARDS

- 2016-2017 sDiv writing retreat proposal, Biogeography of Biodiversity Change, \$4,000
- 2016 Early Career Mentoring Program, Ecological Society of America, \$2,850
- 2015 Centennial Mentoring Program, Ecological Society of America, \$2,000
- 2014-2015 sDiv workshop proposal, Quantifying Biodiversity Changes, \$20,000
- 2014-2017 National Science Foundation Postdoctoral Research Fellowship, Intersections of Biology, Mathematical and Physical Sciences. "Dynamic Macroecology: Globally assessing body size diversity response in plant and animal communities", \$207,000
- 2013 Graduate Researcher of the Year Nomination, Biology, Utah State University
- 2012-2013 School of Graduate Studies Fellowship, Utah State University, \$6,000
- 2012-2013 Ecology Center Fellowship, Utah State University, \$15,000
- 2012 Graduate Student Senate Travel Grant, Utah State University, \$300
- 2012 Center for Women and Gender Travel Grant, Utah State University, \$300
- 2012 Ecology Center Travel Grant, Utah State University, \$600
- 2012 Ecology Center Travel Grant, Utah State University, \$500
- 2010 James A. and Patty MacMahon Scholarship, Utah State University, \$500
- 2010 Biology Department Travel Grant, Utah State University, \$300
- 2010 Ecology Center Travel Grant, Utah State University, \$1,000
- 2009 Ecology Center Travel Grant, Utah State University, \$700
- 2008 Biology Department Travel Grant, Valparaiso University, \$200
- 2008 Board of Directors' Award, Exceptional Student Research, Valparaiso University
- 2007 ASIANetwork Research and Travel Grant, \$14,000
- 2007 Phi Beta Kappa, Valparaiso University
- 2003-2007 Presidential Scholarship, Valparaiso University

SELECTED PRESENTATIONS

1. **Supp, S.R.** 2017. Experimental Macroecology: a small-scale view for dynamic patterns. 8th Biennial Conference of the International Biogeography Society. Tucson, AZ. *Invited Keynote Presentation, 11 January 2017*
2. **Supp, S.R.** 2016. Using the microscope for ecological research and teaching. Colby College, Waterville, ME. *Invited Seminar, 14 December 2016.*
3. **Supp, S.R.** 2016. Data-driven approaches for biodiversity change. Denison University. Granville, OH. *Invited seminar, 9 December 2016.*
4. **Supp, S.R.** 2016. Dynamic macroecology for a changing world. Qbio Seminar Series, Systems Biology Theme in the Wisconsin Institute for Discovery. University of Wisconsin-Madison. Madison, WI. *Invited seminar*
5. **Supp, S.R.** 2016. Using citizen science and remote sensing data to model hummingbird migration. Biomathematics of Ecology and Education Research Conference. Charleston, SC. *Invited symposium*
6. **Supp, S.R.** 2016. Dynamic macroecology for a changing world. University of Maryland Center for Environmental Science, Appalachian Laboratory, Frostburg, MD. *Invited seminar*
7. **Supp, S.R.** 2016. Using citizen science data to track hummingbird migration and its potential drivers. Department of Biology, Valparaiso University, Valparaiso, IN. *Invited undergraduate seminar.*
8. **Supp, S.R.** 2015. Dynamic macroecology for a changing world. Department of Biology. University of Oklahoma, Norman, OK. *Invited seminar*
9. **Supp, S.R.** 2015. Macroecology and community ecology approaches for quantifying biodiversity change. School of Biology and Ecology, University of Maine, Orono, ME. *Invited seminar.*
10. **Supp, S.R.** 2015. The role of open science and citizen science in assessing human impacts. Organized Oral Session: New perspectives for ecology during the Anthropocene. Ecological Society of America Annual Meeting. Baltimore, MD. *Invited presentation*

11. **Supp, S.R.** 2015. Dynamic Macroecology for a changing world. College of Life Sciences and Agriculture, University of New Hampshire, Durham, NH. *Invited seminar*
12. **Supp, S.R.** 2015. Understanding recent biodiversity change across scales. Biodiversity Change Seminar, Biodiversity Research Center, University of British Columbia. Vancouver, B.C., Canada. *Invited lightning talk*
13. **Supp, S.R.** 2015. Dynamic macroecology for a changing world. Department of Biological Sciences Seminar. Northern Illinois University. DeKalb, IL. *Invited seminar*
14. **Supp, S.R.** 2014. Species-level and community-level diversity responses to disturbance: a cross-community analysis. Biodiversity Change workshop. sDiv, German Centre for Biodiversity Research, Leipzig, Germany. *Invited presentation*
15. **Supp, S. R.,** T. A. Cormier, F. A. La Sorte, G. Bohrer, S. Goetz, D. Powers, S. Wethington, M. Lim, and C. H. Graham. 2014. Using citizen-science data to evaluate the drivers of annual and seasonal variation in hummingbird migration. Gordon Research Conference and Seminar, *Unifying Ecology Across Scales*, Biddeford, ME. *Invited poster*
16. Graham, C.G., **S. R. Supp**, D. Powers, S. Goetz, and S. Wethington. 2014. NASA Biodiversity and Ecological Forecasting Team Meeting. Silver Springs, MD. *Invited presentation, co-presented*
17. **Supp, S. R.,** T. A. Cormier, F. A. La Sorte, S. Goetz, D. Powers, S. Wethington, M. Lim, and C. H. Graham. 2014. Using citizen-science data to compare interannual variation in hummingbird migration patterns. Animal Movement Symposium. Raleigh, NC. *Oral presentation*
18. **Supp, S. R.,** T. A. Cormier, F. A. La Sorte, S. Goetz, M. Lim, D. Powers, S. Wethington, and C. H. Graham. 2014. Describing hummingbird migratory patterns and variation using eBird data. Cornell Lab of Ornithology. Ithaca, NY. *Invited presentation*
19. **Supp, S. R.** and S. K. M. Ernest. 2013. Life-history trade-offs among core and transient species regulate local diversity and community structure. Ecological Society of America Annual Meeting. Minneapolis, MN. *Oral presentation.*
20. **Supp, S. R.** 29 March 2013. Moving macroecology forward with novel experimental approaches. Utah State University, Logan, UT. *Departmental seminar*
21. **Supp, S. R.** 8 November 2012. Moving macroecology forward with novel experimental approaches. Washington University at St. Louis. *Invited seminar*
22. **Supp, S. R.,** Ernest, S.K.M. 2012. Testing the drivers of the species-abundance distribution: the relative importance of composition and state variables. Ecological Society of America Annual Meeting. Portland, OR. *Oral presentation*
23. **Supp, S. R.,** Ernest, S.K.M. 2012. Experimentally testing the drivers of the species-abundance distribution: the relative importance of composition and state variables. Gordon Research Conference, *Metabolic Basis of Ecology*, Biddeford, ME. *Invited poster*
24. **Supp, S. R.,** Ernest, S.K.M. 2012. Experimentally testing the drivers of the rank abundance distribution – sensitivity to anthropogenic change? Gordon Research Seminar, *Metabolic Basis of Ecology*, Biddeford, ME. *Invited presentation*
25. **Supp S. R.,** Xiao, X, Ernest, S.K.M., White, E.P. 2011. Experimentally altering biotic interactions has different effects on static and dynamic macroecological patterns. Ecological Society of America Annual Meeting. Austin, TX. *Oral presentation*
26. **Supp, S. R.,** O'Donnell, R. P, Cobbold, S. M. 2010. Hindrance of conservation biology by delays in the submission of manuscripts. Student Conference on Conservation Science. Cambridge, UK. *Invited poster*
27. **Mohlman, S. R. &** Ernest, S. K. M. 2009. Predator influences on prey community structure in a long-term experimental rodent-plant system. Ecological Society of America Annual Meeting. Albuquerque, NM. *Poster*
28. **Mohlman, S. R. &** Ernest, S. K. M. 2009. Pocket mouse invasion influences desert plant community structure in place of absent Kangaroo rats. American Society of Mammalogist Annual Meeting. Fairbanks, AK. *Poster*

29. **Mohlman, S. R.**, O'Donnell, R. P., Cobbold, S. M. 2008. Is the progress of conservation biology hindered by delays in the submission of conservation manuscripts? Faculty and Graduate Student Research Symposium, Utah State University. Logan, UT. *Poster*
30. **Mohlman, S. R.**, Field, J., Schoer, J. 2008. Water quality in east central China and northwest Indiana: issues, perceptions, and approaches for resolution: Part II. ASIANetwork Annual Conference. San Antonio, TX. *Poster*
31. Eberhardt, L., **Mohlman, S. R.**, Zuercher, R., Lute-Kulaga, M. 2007. Yellow-bellied sapsucker (*Sphyrapicus varius*) feeding preferences for *Carya ovata* in relation to species diversity in Northwest Indiana woods. Indiana Dunes Research Forum. Highland, IN. *Poster*

MEDIA

Supp et al. 2015 highlighted in:

1. Miller, J.E. 2015. Annual changes in hummingbird migration revealed by birders' sightings. The Cornell Lab of Ornithology, All About Birds Blog. <http://blog.allaboutbirds.org/2015/03/25/annual-changes-in-hummingbird-migration-revealed-by-birders-sightings/>

O'Donnell et al. 2010 highlighted in:

1. Dolgin, E. 2009. Endangered papers. *Nature*. 461: 831. doi: 10.1038/nj7265-831c.
2. Dolgin, E. 2010. Research Remand. *The Scientist*. <http://www.the-scientist.com/?articles.view/articleNo/27889/title/Research-remand/>

RELATED PROFESSIONAL EXPERIENCE AND TRAINING

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|--------------|--|
| 2017-present | Invited participant for USGS Powell Center working group, <i>Estimating abundance-impact curves for invasive plants: effects on biodiversity and ecosystem function</i> , meet twice 2018-2019, Fort Collins, CO USA |
| 2014-present | Co-PI for sDiv working group on Quantifying Biodiversity Change, sChange, Leipzig, Germany |
| 2014-present | Invited participant for sDiv working group on Community Assembly and the Functioning of Ecosystems, sCAFE, Leipzig, Germany |
| 2014-present | Contributing Member of International Network of Next Generation Ecologists (INNGE), Open Science working group |
| 2012-present | Instructor for the Software Carpentry Foundation and Mozilla Science Lab |
| 2016-present | Instructor for Data Carpentry Foundation |
| 2016 | Women and Leadership Symposium, University of Wisconsin, Madison, WI |
| 2016 | Biotic Novelty and Ecosystem Function IGERT Seminar, University of Wisconsin-Madison, participant |
| 2015-2016 | Chair of Early Career Ecologist Section, Ecological Society of America |
| 2015-2016 | Ecological Society of America (ESA) Mentor representing early career ecologists |
| 2015 | Invited participant for NCEAS working group on Data Intensive Training, 9-11 September 2015, Santa Barbara, CA |
| 2015 | Co-organizer for ESA Special Session, Challenges in professional development for early career ecologists, Baltimore, MD |
| 2014-2016 | Project lead for ESA Early Career Mentoring Program, Baltimore, MD |
| 2014-2015 | Invited participant for working group on Understanding Recent Biodiversity Change, Canadian Institute of Ecology and Evolution, Regina, Saskatchewan |
| 2014 | Invited participant for Biodiversity Change workshop, German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Leipzig, Germany |
| 2014 | NIMBioS Tutorial invited participant, Computing in the Cloud, Knoxville, TN |
| 2013-2015 | Vice-Chair of Early Career Ecologist section, Ecological Society of America |

2012-2014 Chair of Gordon Research Seminar, *Unifying Ecology Across Scales*, 2014
 2012 Instructor Certification. Teaching Software Carpentry, teaching.software-carpentry.org – a group committed to teaching scientists how to program
 2010-2011 Advanced Programming for Biologists. Utah State University
 2010 Ecology Center Director Student Search Committee. Utah State University.
 2009 Hantavirus Safety Training. Utah State University.
 2009-2010 Ecology Seminar Series Committee Co-Chair. Utah State University.
 2008-2011 Biology Department Student Representative. Utah State University.
 2008-2010 Ecology Seminar Series Committee & Graduate Student Host. Utah State University.
 2008-2010 Biology Graduate Student Association President. Utah State University.
 2008 Introduction to ArcGIS interactive course with ESRI Certification. Utah State University.
 2006 Resource Management, Invasive plant species control. Indiana Dunes National Lakeshore, Student Conservation Association and Americorps.

SERVICE

Manuscript reviewer for *Methods in Ecology and Evolution*, *Journal of Biogeography*, *Ecology and Evolution*, *Ecology Letters*, *Ecological Applications*, *Ecology*, *Ecosphere*, *Journal of Field Ornithology*, *Oecologia*, *Estuaries and Coasts*, *Global Ecology and Biogeography*, *Axios Review*, *Journal of Arid Ecosystems*, *Frontiers in Applied Mathematics and Statistics*, *BioScience*

Grant reviewer for *Graduate Women in Sciences*, *Cards Against Humanity Science Ambassador Scholarship for Undergraduate Women*, *iDiv synthesis center (sDiv) for workshop proposals*

Conference organizer for *Gordon Research Seminar-Unifying Ecology Across Scales*, *Ecological Society of America's (ESA) Centennial Mentoring Program*, *Proposal reviewer for ESA sessions*

Founding officer and Chair for *Ecological Society of America Early Career Ecologist Section*

Member of *International Network of Next Generation Ecologists*, *Ecological Society of America*, *Early Career Ecologist Section of ESA*, *Open Science Section of ESA*, *Inclusive Ecology Section of ESA*, *British Ecological Society*, *Software Carpentry Foundation*, *Data Carpentry Foundation*, *International Biogeography Society*