

EDUCATION

2018 Ph.D. Ecology (in progress)
 2012 B.S. Biology with Distinction
 Colorado State University · Fort Collins, CO
 University of Virginia · Charlottesville, VA

PROFESSIONAL EXPERIENCE

2017-2018	US Department of Agriculture · NIFA-AFRI Predoctoral Fellow · Colorado State University · Fort Collins, CO
2012-2013	DuPont Pioneer · Laboratory Assistant · Biotechnology Division · Wilmington, DE
2011-2012	University of Virginia · Undergraduate Researcher · Department of Biology · Charlottesville, VA
2011	Coweeta Hydrologic Laboratory LTER and United States Forest Service · Research Intern · Otto, NC

2010 Virginia Commonwealth University · Research Assistant · Richmond, VA

FELLOWSHIPS | GRANTS | AWARDS

Total received: \$118,112

2018	Colorado State University · Research Mentoring to Advance Inclusivity in STEM Research Grant (\$2500)
2017-2018	Colorado State University · School of Global Environmental Sustainability Leadership Fellowship
2016-2018	United States Department of Agriculture · NIFA-AFRI Predoctoral Fellowship (\$94,999)
2016	City of Boulder Open Space and Mountain Parks · Research Grant (\$5669)
2016-2017	Colorado State University · Vice President of Research Graduate Fellow (\$3125)
2016	The Nature Conservancy · J.E. Weaver Competitive Grant (\$1000)
2016	The Ecological Society of America · 'Hackathon' beginner app developer first place award
2016	Colorado State University · Graduate Degree Program in Ecology Small Research Grant (\$2000)
2016	Colorado State University · Graduate Degree Program in Ecology Travel Grant (\$175)
2015-2016	Colorado State University · Graduate Degree Program in Ecology Teaching Fellowship
2015	Colorado State University · Harold Harrington Fellowship (\$1900)
2014-2015	Colorado State University · Stavros Family Fund Recipient (\$3021)
2014-2015	Colorado State University · Department of Biology Travel Awards (\$2258)
2014	National Science Foundation · Graduate Research Fellowship Program (Honorable Mention)
2014	Colorado State University · Sharon E. and David E. Kabes Scholarship (\$590)
2013	Colorado State University · Graduate Fellowship Award (\$1000)
2012	University of Virginia · Undergraduate Research Travel Grant (\$1000)

PUBLICATIONS

- 2018 **Hoffman, AM**, ML Avolio, AK Knapp, and MD Smith. Co-dominant grasses differ in gene expression under experimental climate extremes in native tallgrass prairie. *PeerJ*.
- 2017 **Hoffman, AM** and MD Smith. Gene expression differs in codominant prairie grasses under drought. *Molecular Ecology Resources*.
- 2017 Avolio, ML, **AM Hoffman**, MD Smith. Linking gene regulation, physiology, and plant biomass allocation in *Andropogon gerardii* in response to drought. *Plant Ecology*.
- 2016 Lemoine, NP, **AM Hoffman**, A Felton, L Baur, F Chaves, J Gray, Q Yu, and MD Smith. Underappreciated problems of low statistical power in ecological field studies. *Ecology*.
- 2016 Smith, MD, **AM Hoffman**, and ML Avolio. Gene expression patterns of two dominant tallgrass prairie species differ in response to warming and altered precipitation. *Scientific Reports*.

PUBLICATIONS (CONTINUED)

- 2012 Mellor, KE, **AM Hoffman**, and MP Timko. Use of ex vitro composite plants to study the interaction of cowpea (*Vigna unguiculata* L.) with the root parasitic angiosperm *Striga gesnerioides. Plant Methods*.
- 2012 **Hoffman, AM** Estimating tree transpiration accurately depends on wood type and species: a study of four southern Appalachian tree species. *The Oculus*.
- Zinnert, JC, JD Nelson, AM Hoffman. Effects of salinity on physiological responses and the photochemical reflectance index in two co-occurring coastal shrubs. *Plant & Soil*.
- Zinnert, JC, JD Nelson, JK Vick, **AM Hoffman** and DR Young. Rethinking chlorophyll responses to stress: Fluorescence and reflectance remote sensing in a coastal environment. *Proceedings of the 4th International Workshop on Remote Sensing of Vegetation Fluorescence*, Valencia, Spain.
- In prep. **Hoffman, AM**, NP Lemoine, TW Ocheltree, MD Smith. Metabolomes of prairie species *Boutelouta gracilis* and *Spheralcea coccinea* are resilient to nitrogen deposition. *Manuscript available upon request*.
- In prep. **Hoffman, AM** and MD Smith. Genotypes of a tallgrass prairie species respond differently to drought, despite high plasticity in populations. *Manuscript available upon request*.
- In prep. Smith,MD, SE Koerner, AK Knapp, ML Avolio, JM Briggs, FA Chaves, E Denton, J Dietrich, DJ Gibson, J Gray, AM Hoffman, DL Hoover, KJ La Pierre, A Silletti, KR Wilcox, Q Yu, and JM Blair. Mass ratio effects underlie ecosystem responses to environmental change. *Manuscript available upon request*.
- In prep. Bushey, JA, AM Hoffman, TW Ocheltree, S Gleason, and MD Smith. Is it plastic of just fantastic? Understanding the role of plasticity and local adaptation in the drought tolerance of *Bouteloua gracilis*. Manuscript available upon request.
- In review Hoffman, AM, CC Hoffman, F Chaves, A Felton, JE Gray, W Mao, A Tatarko, L Vilonen, L Gerhardi, MD Smith. Predicting dryland ecosystem responses to global change through dominant grasses. Functional Ecology. Manuscript available upon request.
- In review Knapp, AK, C Carroll, RJ Griffin-Nolan, IJ Slette, F Chaves, L Baur, AJ Felton, JE Gray, **AM Hoffman**, NP Lemoine, W Mao, A Post, and MD Smith. A reality check for climate change experiments: do they reflect the real world? *Ecology. Manuscript available upon request.*
- In review Hoffman, AM, H Perretta*, and MD Smith. Patterns of grasshopper palatability and preference in blue grama grass. Arthropod-Plant Interactions. Manuscript available upon request.

 *Denotes undergraduate mentee
 - In press Griffin-Nolan, RJ, JA Bushey, CJW Carroll, A Challis, J Chieppa, M Garbowski, **AM Hoffman**, AK Post, IJ Slette, D Spitzer, D Zambonini, TW Ocheltree, DT Tissue, and AK Knapp. Linking plant traits and ecosystem responses to precipitation: a way forward. *Functional Ecology. Manuscript available upon request.*

TEACHING

2016	Data visualization using R and ggplot (guest lecture)	Colorado State University
2014-2016	Molecular and General Genetics (Recitation)	Colorado State University
2016	Community Ecology (Recitation)	Colorado State University
2015	Foundations of Ecology (Recitation, guest lectures)	Colorado State University
2012	Organic Chemistry Lab II	University of Virginia
2011	Organic Chemistry Lab I	University of Virginia

STUDENT MENTORING

2018	Maddie Swall · RMAIS mentee	Colorado State University
2016-2017	Holly Perretta · REU student	Colorado State University
2017	Abigail Lock · Research Assistant	Colorado State University
2016	Brigitte Gaudreault · Laboratory Research Assistant	Colorado State University
2015	Daniel Robotham · Honors Thesis student Thesis	Colorado State University
	committee member	
2014-2015	Brianna Magbual · Research Assistant	Colorado State University
2014	Destiny Brown · Research Assistant	Colorado State University

PRESENTATIONS

2018	Front Range Student Ecology Symposium · Fort Collins, CO
	Dominant grasses in drylands: linking species and traits to global change in ecosystems.
2017	Colorado State University Drought Symposium · Fort Collins, CO
	Phenotypic diversity within dominant blue grama grass across an aridity gradient. Third place winner
2017	Front Range Open Space Research Symposium · Boulder, CO
	Phenotypic diversity within dominant blue grama grass across an aridity gradient. Invited speaker
2017	Ecological Society of America · Portland, OR
	Phenotypic diversity within dominant blue grama grass across an aridity gradient.
2017	Front Range Student Ecology Symposium · Fort Collins, CO
	Phenotypic diversity within dominant blue grama grass across a precipitation gradient.
2016	Ecological Society of America · Fort Lauderdale, FL
	Thresholds of drought response differ in a tallgrass prairie population.
2016	Vice President Office of Research Fellowship Symposium · Fort Collins, CO
	Breaking down the drought portfolio in grasslands. 3-Minute Thesis Invited Speaker
2015	Graduate Student Forum · Fort Collins, CO
	LATEX: Introduction and tricks of the trade. Invited speaker
2015	Ecological Society of America · Baltimore, MD
	Genotypes of a tallgrass prairie species respond differently to drought, despite high plasticity within
	populations. Invited Speaker
2015	Front Range Student Ecology Symposium · Fort Collins, CO
	Genotypes of a tallgrass prairie species respond differently to drought, despite high plasticity in populations.
2015	Graduate Student Forum · Fort Collins, CO
	Predicting diversity: Old hypotheses, new critiques, and why you should be paying attention. Invited speaker
2014	Colorado State University Plant Supergroup · Fort Collins, CO
	Within-population variation under drought in a tallgrass prairie species. Invited speaker
2014	Ecological Society of America · Sacramento, CA
	Gene expression in co-dominant prairie grasses: comparing transcriptomes using RNA-seq and de novo
	assembly.
2012	Ecological Society of America · Portland, OR
	Composite plants: A novel method for gene screening in cowpea.
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PROFESS	IONAL SERVICE
	Peer review : Global Change Biology · Journal of Ecology · New Phytologist · Plant Ecology · Plos One
2011 - 2018	Ecological Society of America · Student member
2016 - 2017	Front Range Student Ecology Symposium · Undergraduate research poster judge
2015 - 2016	Graduate Degree Program in Ecology · Executive Committee Student Representative
2015 - 2016	Front Range Student Ecology Symposium · Abstract Selection and Review Committee member
2015	Colorado State University Department of Biology · Faculty search committee student organizer
2014 - 2015	Front Range Student Ecology Symposium · Executive Board Member
2013 - 2014	Front Range Student Ecology Symposium · Webmaster
2011 - 2014	Ecological Society of America · Student Volunteer
COMMO	NITY ENGAGEMENT
2016	Colorado Odyssey of the Mind · Science fair judge · Fort Collins, CO

2014-2015 **Bella Romero Elementary School** · science fair judge and guest educator · *Greeley, CO*