

# Magda Garbowski, PhD

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ORCID ID: [0000-0002-5427-7916](https://orcid.org/0000-0002-5427-7916) | [GoogleScholar](https://scholar.google.com/citations?user=...)

## EDUCATION

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- Dec 2020 Ph.D. in Ecology, Colorado State University  
*Dissertation: Understanding belowground dynamics for improved restoration of arid ecosystems*  
*Advisors: Dr. Cynthia Brown, Dr. Danielle Johnston*
- Aug 2016 M.S. in Ecology, Colorado State University
- Dec 2010 B.A. in Ecology and Evolutionary Biology, Environmental Studies (Policy)  
Minor in Economics, University of Colorado at Boulder  
Study Abroad: Poland (2007), Tanzania (2008)

## PROFESSIONAL EXPERIENCE

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- 2023 – Present Baker Fellowship - Climate Change & Human Resilience, University of Arizona  
*Topic: Harnessing root traits for improved restoration of drought-prone ecosystems*  
*Advisor: Dr. Elise Gornish*
- 2022 – 2023 USDA-NIFA Postdoctoral Fellow, University of Wyoming  
*Topic: Applying trait-based approaches to understand the causes and consequences of invasion in rangelands*  
*Advisor: Dr. Daniel Laughlin*
- 2021 – 2022 Postdoctoral Researcher, German Center for Integrative Biodiversity Research  
*Topic: Assessing functional underpinnings of biodiversity change in fertilized grasslands*  
*Advisor: Dr. Stan Harpole*
- 2019 – 2020 USDA-NIFA Predoctoral Fellow, Colorado State University
- 2019 – 2020 Research Fellow, Vice President of Research, Colorado State University
- 2011 – 2013 Crew leader, Wildlife Habitat Research Colorado Parks and Wildlife
- 2011 – 2012 K-6 Science Educator, Denver Public Schools
- 2011 Botany Intern, Bureau of Land Management, Vale, Oregon

## TEACHING

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### Courses

- 2022 *Lead Instructor*, Invasive Plant Ecology Seminar, University of Wyoming (1 semester)
- 2019 *Lead Instructor*, Root Traits in Restoration Seminar, Colorado State University (1 semester)
- 2016 – 2018 *Teaching Assistant*, Plants and Civilizations, Colorado State University (3 semesters)
- 2018 *Lead Instructor*, INTO Immersion Program, Colorado State University (2 semesters)

### Guest Lectures

- 2022 *Trait-based Restoration*, Restoration Ecology, Colorado State University
- 2021 *Introduction to Trait-based Ecology*, Martin Luther University, Halle, Germany

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- 2018, 2019 *Introduction to Invasive Plant Ecology*, Plants and Civilizations, Colorado State University
- 2017, 2018 *The Botanical History of Tea*, Plants and Civilizations, Colorado State University

### PUBLICATIONS

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- 2023 **Garbowski M**, Boughton E, Ebling A, Fay P, Hautier Y, et al. Nutrient enrichment alters seasonal beta-diversity in global grasslands. *Journal of Ecology*. doi: [10.1111/1365-2745.14182](https://doi.org/10.1111/1365-2745.14182)
- 2023 **Garbowski M**, Freschet G, Jackson L, Brown C, Comas L. Root Form and Function. Encyclopedia of Soils in the Environment, 2<sup>nd</sup> Edition doi: [10.1016/B978-0-12-822974-3.00216-0](https://doi.org/10.1016/B978-0-12-822974-3.00216-0)
- 2022 Jurburg S, Buscot F, Chatzinotas A, Chaudhari N, Clark A,... **Garbowski M**... et al. The community ecology perspective on omics data. *Microbiome*. doi: [10.1186/s40168-022-01423-8](https://doi.org/10.1186/s40168-022-01423-8)
- 2022 Ladouceur E, Blowes S, Chase J, Clark A, **Garbowski M** ... et al. Species losses, gains, and changes in persistent species are associated with distinct effects on ecosystem functioning in global grasslands. *Ecology Letters*. doi: [10.1111/ele.14126](https://doi.org/10.1111/ele.14126)
- 2022 Spake R, Barajas-Barbosa MP, Blowes S, Bowler D, Callaghan C... **Garbowski M** ... et al. Detecting thresholds of ecological change in the Anthropocene. *Annual Reviews – Environment and Resources*. doi: [10.1146/annurev-environ-112420-015910](https://doi.org/10.1146/annurev-environ-112420-015910)
- 2022 Ladouceur E, Shackelford N, Bouazza K... **Garbowski M** ... et al. Knowledge sharing for shared success in the decade on ecosystem restoration. *Ecological Solutions and Evidence*. doi: [10.1002/2688-8319.12117](https://doi.org/10.1002/2688-8319.12117)
- 2021 **Garbowski M**, Johnston DB, Brown CS Cultivars of popular restoration grass developed for drought do not have higher drought resistance and do not differ in drought-related traits from other accessions. *Restoration Ecology*. doi: [10.1111/rec.13415](https://doi.org/10.1111/rec.13415)
- 2021 **Garbowski M**, Johnston DB, Brown CS Leaf and root traits, but not relationships among traits, vary with ontogeny in seedlings. *Plant and Soil* doi: [10.1007/s11104-020-04790-z](https://doi.org/10.1007/s11104-020-04790-z)
- 2021 Shackelford N, Peterno GB, Winkler DE, Erickson T, Leger E ... **Garbowski M** ... et al. Drivers of seedling establishment success in dryland restoration efforts. *Nature Ecology and Evolution*. doi: [10.1038/s41559-021-01510-3](https://doi.org/10.1038/s41559-021-01510-3)
- 2021 **Garbowski M**, Johnston DB, Baker DV, Brown CS Invasive annual grass interacts with drought to influence plant communities and soil moisture in dryland restoration. *Ecosphere*. doi: [10.1002/ecs2.3417](https://doi.org/10.1002/ecs2.3417)
- 2020 **Garbowski M**, Avera B, Bertram JH, Courkamp J, Gray J, et al. Getting to the root of restoration: Considering root traits for improved restoration outcomes under drought and competition. *Restoration Ecology*. doi: [10.1111/rec.13291](https://doi.org/10.1111/rec.13291)
- 2020 **Garbowski M**, Brown CS, Johnston DB Soil amendment interacts with invasive grass and drought to uniquely influence aboveground versus belowground biomass in aridland restoration. *Restoration Ecology*. doi: [10.1111/rec.13083](https://doi.org/10.1111/rec.13083)

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- 2020 Johnston DB & **Garbowski M** Response of native plants and Downy Brome to a water-conserving soil amendment. *Rangeland Ecology & Management*. doi: [10.1016/j.rama.2019.10.001](https://doi.org/10.1016/j.rama.2019.10.001)
- 2018 Griffin-Nolan RJ, Bushey JA, Carroll C, Challis A, Chieppe J... **Garbowski M** ... et al. Trait selection and community weighting are key to understanding ecosystem responses to changing precipitation regimes. *Functional Ecology*. doi: [10.1111/1365-2435.13135](https://doi.org/10.1111/1365-2435.13135)
- 2016 Sender J & **Garbowski M** (2016). The relationship between land management and the nature of helophytes in small lakes (Eastern Poland). *Limnological Review*. doi: [10.2478/limre-2016-0006](https://doi.org/10.2478/limre-2016-0006)

### TECHNICAL REPORTS

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**Garbowski M** & Meredith CR (2021). *Astragalus monumentalis*. The IUCN Red List Assessment

**Garbowski M** & Meredith CR (2021). *Astragalus naturitensis*. The IUCN Red List Assessment

**Garbowski M**, Johnston DB, Brown CS (2019) Research Summary. Restoring Habitat with super absorbent polymer.

<https://cpw.state.co.us/Documents/Research/Habitat/JohnstonSAPAnnualReport2019.pdf>

**Garbowski M**, Johnston DB, Brown CS (2018) 2018 Colorado Plateau Native Plant Program Project Annual Report: Using functional traits to predict native and non-native species success.

*Contribution*. <https://storymaps.arcgis.com/stories/5829de3151714064959f9855c8d42814>

**Garbowski M**, Johnston DB, Brown CS (2017) Colorado Wildlife Research Report Restoring Habitat with super-absorbent polymer. <https://cpw.catalog.aspencaat.info/Files/2044/ViewPDF>

**Garbowski M**, Johnston DB, Brown CS (2017) 2017 Colorado Plateau Native Plant Program Project Highlight: Using functional traits to predict native and non-native species success. *Contribution*.

<https://storymaps.arcgis.com/stories/5829de3151714064959f9855c8d42814>

### FELLOWSHIPS AND GRANTS

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2023 Baker Postdoctoral Fellowship in Climate Change and Human Resiliency (PI) (\$70,000)

*Harnessing root traits for improved restoration of drought-prone ecosystems*

2023 German Center for Integrative Biodiversity Research Early Career Working Group (PI) (\$18,000)

*Integrating functional and phylogenetic underpinnings into restoration science*

2023 Chicago Botanic Garden Center for Conservation and Restoration Grant (co-author) (\$17,500)

*Integrating Trait Seedling Data Into Restoration Efforts Working Group*.

2021 National Institute of Food and Agriculture (USDA) Postdoctoral Fellowship (PI) (\$165,000)

*Applying trait-based approaches to understand the causes and consequences of invasion in rangelands*

2019 National Institute of Food and Agriculture (USDA) Predoctoral Fellowship (PI) (\$87,000)

*Research focus: Targeting genetic and trait variability for improved restoration outcomes*

2019 Vice President of Research Fellowship, Colorado State University (PI) (\$4,000)

*Do differences make all the difference? Assessing trait variability for improved restoration*

2017 Bureau of Land Management Native Plant Program Research Grant (co-PI) (\$96,000)

*Using functional traits to predict native and non-native species success in restoration*

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### AWARDS AND SCHOLARSHIPS

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- 2023 University of Wyoming Own It! award to recognize exceptional women in STEM
- 2019 Best Student Oral Presentation, High Altitude Revegetation/SER-RM Conference (\$250)
- 2019 Student poster presentation winner, Society of Ecological Restoration World Conference
- 2019 Society for Ecological Restoration Travel Award (\$500)
- 2018 Top Scholars in Interdisciplinary Programs, Graduate Student Showcase, CSU (\$250)
- 2018 R.M. Zimdahl Outstanding Graduate Students in Pest Management Award, CSU (\$500)
- 2018 Graduate Degree Program in Ecology Travel Award (\$500)
- 2017 Bio-agricultural Science and Pest Management Bill Brown Travel Award (\$500)
- 2017 Kosciuszko Foundation Graduate Tuition Scholarship (\$1,500)
- 2016 College of Agricultural Sciences AG-Day Scholarship (\$2,000)
- 2015 Bio-agricultural Sciences and Pest Management Outstanding Student Scholarship (\$1,000)

### SCIENCE COMMUNICATION AND OUTREACH

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#### Video abstracts and presentations

[Garbowski \(2022\) \*Traits through time - Ecological Society of America Ignite Presentation\*](#)

[Ladouceur et al. \(2022\) \*Ecological Solutions and Evidence\*](#)

[Garbowski et al. \(2021\) \*Restoration Ecology\*](#)

[Garbowski et al. \(2021\) \*Ecosphere\*](#)

[Garbowski et al. \(2021\) \*Plant and Soil\*](#)

#### Outreach Presentations

*Considering root traits for improved restoration and native plant development.* Society for Ecological Restoration Webinar Series (2021)

*Applying trait-based approaches to native plant selection.* Colorado Plateau Native Plant Program Partner Meeting (2021)

*Incorporating Native Plants into Garden Design.* Chicago Horticulture Society (2021)

*We've screwed it all up! A poem about ecological restoration.* Biodiversity Ignite Night for the Fort Collins Community (2019)

*Do differences make all the difference?* Colorado State University, 3-minute thesis (winner) (2019)  
<https://www.youtube.com/watch?v=dr8-FCt1LW4>

*Field Adventures.* Graduate Women in the Sciences Northern Colorado Outreach Night (2018)

*Using super-absorbent polymer and seed pellets for arid land restoration.* Field tour for Colorado Parks and Wildlife Property Technicians (2017)

*Restoring Native Habitats for Wildlife.* Wildlife Biology Day for Land Managers and Ranchers (2016)

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### Press and art

*Cover Image: Journal of Ecology. Volume 111, Issue 10*

<https://besjournals.onlinelibrary.wiley.com/toc/13652745/2023/111/10>

*Monthly research summaries of Restoration Ecology articles.* Society for Ecological Restoration  
Rocky Mountain Chapter Newsletter (2017 – Present)

<https://chapter.ser.org/rockymountains/news/newsletters/>

*Emerging professionals and student highlights.* Society for Ecological Restoration News Vol. 34 Issue  
3. (2020)

*Exploring biodiversity. A mural.* University of Colorado Museum of Natural History (2011)

### YOUTH OUTREACH AND EDUCATION

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*Educator/Organizer,* Wildlands Restoration Volunteers, Boulder CO (2021, 1 event)

*Educator/Organizer,* Black to Nature Book Club & Outdoor Program, Denver CO (2020 – 2022, 4 events)

*STEM Presenter/Volunteer,* Environmental Learning Science Program, Fort Collins, CO (2018, 2 events)

*Educator/Volunteer,* Compass 6 – 12 School, Fort Collins, CO (2017, 3 classroom sessions)

*STEM Presenter/Volunteer,* Girls Advancing Scientific Progress, Fort Collins, CO (2017, 1 event)

*Elementary School Science Educator,* Denver Public Schools afterschool programs (2012, 2 semesters)

### MENTORING

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#### Research mentees (4 students):

*Hanna Holz* (MS student) – Practicum project, Ecology, Martin Luther University, (2021) (2 semesters)

*Hannah Dresang* (BS student) – Independent Study, Ecosystem Science/Sustainability, Colorado State  
University (2018 – 2019) (2 semesters)

*Miranda Flora* (BS student) – Research Project, Bio-agricultural Sciences (2018 – 2019) (2 semesters)

*KaMele Sanchez* (BS student) – Independent Study, Ecosystem Science/Sustainability, Colorado State  
University (2017 – 2019) (4 semesters)

#### Undergraduate and professional mentees (22 individuals):

*Iris Kurz* (2023), *Arthur Canaday* (2022), *Matthew Hartey* (2022), *Jillian Hausman* (2020), *Lauren Beu*  
(2020), *Oliver D'Ozario* (2019), *David Keyes* (2019), *Kristin Oles* (2017), *Sarah Thompson* (2017),  
*Sydney vanNortwick* (2017), *Kayla Ferron* (2017) *Hunter Trowbridge* (2016), *Katharine Lynch* (2015),  
*Collin Peterson* (2015), *Karen Holcomb* (2014), *Tyler Keller* (2014), *Peter Englestad* (2013, 2014),  
*Jeanine Neskey* (2013), *Mary Cole* (2013), *Shelby Ruettiger* (2013), *Lauren Gallo* (2012), *Eddie Richter*  
(2012), *Nate Michael* (2012)

### LEADERSHIP AND SERVICE

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*Member,* Communications Committee – Society for Ecological Restoration (2017 – Present)

*Member,* Student & Early Professionals Committee – Society for Ecological Restoration (2020 – Present)

*Student presentation judge,* Ecological Society of America Annual Meeting (2022)

*Organizer,* Ecological Society of America Special Session: Trait-based seedling ecology (2022)

*Member,* Program Committee, Student Committee – Society for Ecological Restoration Regional  
Conference (2017, 2019, 2022)

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*Organizer*, Student networking events at regional, national, and world Society for Ecological Restoration conferences (2016, 2017, 2019)

*Student Director*, Board of Directors – Society for Ecological Restoration (2018 – 2020)

*Organizer*, R-user coding group, Colorado State University (2018 – 2020)

*Organizer*, Colorado Plateau Native Plant Program Regional Conference (2018, 2020)

*Secretary*, Society for Ecological Restoration Rocky Mountain Chapter (2016 – 2017)

*President*, Society for Ecological Restoration Student Chapter, Colorado State University (2015 – 2016)

### **DIVERSITY, EQUITY AND INCLUSION**

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*Panel speaker*, British Ecological Society, “First Generation in Ecology” (2022)

*Member*, Society for Ecological Restoration – Diversity, Equity, Inclusion Committee (2020 – 2021)

*Task lead*, Society for Ecological Restoration – Assessment of conference speaker diversity (2021)

*Task lead*, Society for Ecological Restoration – Developing guidelines for promoting diverse panels and keynotes at society conferences (2021)

*Organizer*, Society for Ecological Restoration Rocky Mountain Chapter Regional Conference – Traditional Ecological Knowledge Session Organizer (2020, *canceled due to Covid-19*)

*Mentor*, First Generation Network, Colorado State University (2018 – 2020)

*Mentor*, INTO English Language Program, Colorado State University (2018)

### **JOURNAL REVIEWER**

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Annals of Botany (1), Biological Invasions (2), Ecology (1) Ecological Solutions and Evidence (2), Ecology and Evolution (3), Ecological Applications (2), Ecological Monographs (1), Ecosphere (1), Functional Ecology (3), Global Change Biology (1), Journal of Applied Ecology (3), Journal of Arid Environments (2), Journal of Ecology (4), Oecologia (2), New Phytologist (1), Nature - Communications (1), Plant and Soil (3), Plant Ecology (3), Rangeland Ecology and Management (2), Restoration Ecology (1)

### **COLLABORATIVE AND DISTRIBUTED RESEARCH**

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NUTNet (Nutrient Network)

- Participant (2021 - present)

DRAGNet (Disturbance and Resources Across Global Grasslands)

- Site co-PI - Lublin, Poland (2021 – present), European Network coordinator (2021)

BROMECAST

- Satellite Site PI - Dry Creek State Wildlife Area, Colorado (2021 – Present)

sCORRE (Assessing consequences of community changes with global change, iDiv Working Group)

- Participant (2021 – Present)

Early Traits Working Group

- Organizer (2021 – Present)

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### PROFESSIONAL DEVELOPMENT

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#### Technical

*Phylogenetic comparative methods in R*, University of Wyoming (3-day course) (2022)

*Grant writing workshop*, University of Wyoming (2-day course) (2022)

*Bayesian Statistics*, Germany Center for Integrative Biodiversity Research (1-week course) (2021)

*Bioinformatics Workshop on Trait and Phylogenetic Data Analysis*, National Socio-Environmental Synthesis Center (SESYNC) (1-week course) (2017)

*Writing Functions in R*, Ecological Society of America Meeting, (1/2-day course) (2016)

*Working with Times Series Data*, Ecological Society of America Meeting (1/2-day course) (2016)

#### Teaching, Mentoring and Communication

*Effective Mentoring and Teaching*, Colorado State University, (1-week course) (2019)

*Team building based on individual strengths*, (2-hour course) (2019)

*Creating an inclusive classroom*, Colorado State University, (1/2-day course) (2019)

*Writing good learning outcomes*, Colorado State University, (1/2-day course) (2018)

*Women in Science and Engineering SciComm Symposium*, University of Colorado (2-day course) (2017)

### TECHNICAL STRENGTHS

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Main Computer Language: R

Experience with: Stan, MATLAB, Arduino, LaTeX, WinRhizo, GitHub, Hydrus3D soil water modeling, Photoshop, ProCreate Digital Art Program

### PROFESSIONAL SOCIETY AFFILIATIONS

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Botanical Society of America (2022 - Present)

Ecological Society of America (2013 – Present)

Restoration Ecology Section (2016 – Present)

Society for Ecological Restoration (2013 – Present)

Graduate Women in Science – Northern Colorado Chapter (2016 – 2018)

Society for Conservation Biology (2016 – 2018)

Society for Range Management (2015 – 2017)

Colorado Native Plant Society (2014 – 2016)

### INVITED SEMINARS AND PRESENTATIONS

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Garbowski M (November 2022) *Restoration in the context of global change*, University of Wyoming Botany Seminar

Garbowski M, Sender J (October 2022) *Testing the effects of disturbance and nutrient enrichment on old-fields in Poland - a contribution to DRAGNet*. University of Life Sciences in Lublin

Garbowski M (March 2021) *Considering root traits in restoration*, University of Wyoming

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Garbowski M, Brown CS, Johnston DB (February 2017) *Restoring semi-arid lands with superabsorbant polymers under reduced precipitation and threat of Bromus tectorum invasion*. Society for Range Management Annual Meeting, St. George, Utah

### **CONTRIBUTED PRESENTATIONS (\* MENTEE AUTHOR)**

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Garbowski M (August 2022) Do traits and trait relationships change throughout plant development? Part of a special session on seed and seedling traits. Ecological Society of America Conference, Montreal, Canada

Garbowski M, Boughton E, Ebling A, Fay P, Hautier Y, Holz H\*, Jurburg S, Ladouceur E, Martina J, Ohlert T, Raynaud X, Roscher C, Sonnier G, Tognetti P, Yahdjian L, Wilfahrt P, Harpole S (August 2022) Temperature Seasonality and nutrient enrichment drive intra-annual community turnover in global grasslands. Ecological Society of America Conference, Montreal, Canada

Garbowski M, Brown CS, Johnston DB (July 2022) Leaf and root traits vary throughout plant development. Botanical Society of America Conference [Virtual]

Garbowski M, Brown CS, Johnston DB (June 2021) Cultivars of popular restoration grass developed for drought do not differ in performance or drought-related traits from other accessions. Society for Ecological Restoration World Conference [Virtual]

Garbowski M, Johnston DB, Brown CS (July 2020) Ontogeny influences leaf and root traits of restoration seedlings. Society for Conservation Biology Annual Meeting [Virtual]

Garbowski M, Johnston DB, Brown CS (August 2020) Assessing root traits for improved plant performance under drought. Ecological Society of America Annual Meeting Special Session: Ecology Underground [Virtual]

Garbowski M, Johnston DB, Brown CS (October 2019) Intraspecific trait variation of restoration species at early developmental stages. Society for Ecological Restoration World Conference, Cape Town, South Africa

Garbowski M, Brown CS, Johnston DB (September 2019) Intraspecific trait variation of restoration species at early developmental stages. Biennial Conference of Science and Management. Flagstaff, Arizona

Garbowski M, Brown CS, Johnston DB (August 2019) Intraspecific trait variation of restoration species at early developmental stages. Ecological Society of America Annual Meeting, Louisville, Kentucky

Sanchez KE\*, Garbowski M (April 2019) Young seedling recovery patterns of popular restoration species, National Council on Undergraduate Research. Atlanta, Georgia

Flora M\*, Garbowski M, Brown CS, (April 2019) Differences in genetic diversity among natural accessions and cultivars of slender wheatgrass, *Elymus trachycaulus*. Celebrate Undergraduate Research and Creativity Showcase. Colorado State University, Fort Collins, Colorado

Sanchez KE\*, Garbowski M, Brown CS, (March 2019) Stressing out: Young seedling recovery patterns of popular restoration species, *Elymus trachycaulus*. The Multicultural Undergraduate Research Art and Leadership Symposium. Colorado State University, Fort Collins, Colorado

Garbowski M, Brown CS, Johnston DB (March 2019) Intraspecific trait variation of restoration grass seedlings at early developmental stages. High Altitude Revegetation/Society for Ecological Restoration – Regional Conference, Fort Collins, Colorado [1st place student presentation]



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Sanchez KE\*, Garbowski M, Brown CS, (February 2019) Stressing out: Young seedling recovery patterns of popular restoration species, *Elymus trachycaulus*. Western Society of Weed Science. Denver, Colorado

Garbowski M, Brown CS, Johnston DB (October 2018) Cheatgrass and drought interact to influence restoration plant communities in Colorado. Society for Ecological Restoration North American Meeting, Spokane, Washington

Garbowski M, Brown CS, Johnston DB (February 2018) Assessing functional trait variability of promising restoration species from the Colorado Plateau Region. Colorado Plateau Native Plant Program Annual Conference, Grand Junction Colorado

Garbowski M, Brown CS, Johnston DB (March 2017) Restoring semi-arid lands with superabsorbant polymers under reduced precipitation and threat of *Bromus tectorum* invasion. Society for Ecological Restoration/High Altitude Re-vegetation Conference. Fort Collins, Colorado

Garbowski M (February 2017) Restoring semi-arid lands under reduced precipitation and threat of *Bromus tectorum* invasion. Front Range Student Ecology Symposium, Fort Collins, CO

Garbowski, M, Brown CS, Johnston DB (August 2016) Restoring semi-arid lands with superabsorbent polymers under reduced precipitation and threat of *Bromus tectorum* invasion. Ecological Society of America Annual Meeting, Fort Lauderdale, Florida

### POSTER PRESENTATIONS (\* UNDERGRADUATE AUTHOR)

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Garbowski M, Harpole S (April 2022) Nutrient Network Europe: Grassroots Global Ecology. German Center for Integrative Biodiversity Research Annual Conference, Virtual

Garbowski M, Avera B, Bertram JH, et al. (March 2020) Considering root traits for improved restoration under drought and competition. Colorado Plateau Native Plant Program Bi-Annual Meeting. Vernal, Utah

Garbowski M, Sanchez KE\*, Brown CS (October 2019) Asymmetrical above- and belowground responses of *Elymus trachycaulus* (Slender wheatgrass) cultivars to environmental stress. Society for Ecological Restoration 8th World Conference, Cape Town, South Africa [Runner up]

Sanchez KE\*, Garbowski M, Brown CS, (April 2019) Stressing out: Young seedling recovery patterns of popular restoration species, *Elymus trachycaulus*. Celebrate Undergraduate Research and Creativity Showcase. Colorado State University, Fort Collins, Colorado

Flora M\*, Garbowski M, Brown CS, (April 2019) Differences in genetic diversity among natural accessions and cultivars of slender wheatgrass, *Elymus trachycaulus*. Celebrate Undergraduate Research and Creativity Showcase. Colorado State University, Fort Collins, Colorado

Garbowski M, Brown CS, Johnston DB (November 2018) Targeting intraspecific functional trait and genetic variability for ecological restoration: Can differences make all the difference? Graduate Student Showcase, Colorado State University, Fort Collins, Colorado

Garbowski M, (November 2016) Restoring semi-arid lands under reduced precipitation and threat of *Bromus tectorum* invasion. Graduate Student Showcase, Colorado State University

Garbowski M, Brown CS, Johnston DB (March 2015) Using superabsorbent polymers to restore arid lands invaded by *Bromus tectorum*. High Altitude Re-vegetation Conference, Fort Collins, Colorado