# Jacob E. Lucero

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## **GENERAL INTERESTS**

Community, population, and restoration ecology; global change, evolutionary, and conservation biology; biogeography; natural resource management

# SPECIFIC INTERESTS

Ecology and conservation of changing rangeland ecosystems; ecology and management of invasive species; biotic interactions; community assembly; ecological restoration; natural resource conservation; quantitative synthesis; ecology and evolution of plant defenses

### **ACADEMIC POSITIONS**

2022 – present	Assistant Professor of Rangeland Global Change Ecology Texas A&M University (TAMU)
2020 - 2022	Restoration Ecology Postdoctoral Scholar New Mexico State University (NMSU); supervisor: <b>Dr. Akasha M. Faist</b>
2018 - 2020	Visiting Postdoctoral Research Fellow York University (YU); supervisor: <b>Dr. Christopher J. Lortie</b>
2017 - 2018	Postdoctoral Research Associate University of Montana (UM); supervisor: <b>Dr. Ragan M. Callaway</b>
EDUCATION	
2017	PhD in Organismal Biology, Ecology, and Evolution UM; advisor: <b>Dr. Ragan M. Callaway</b>
2012	MSc in Wildlife and Wildlands Conservation Brigham Young University (BYU); advisor: <b>Dr. Brock R. McMillan</b>
2008	BSc in Landscape Management BYU

# **PUBLICATIONS**

(\* = postdoc, \*\* = graduate student, \*\*\* = undergraduate scientist)

*In press* [25] Rogers WE, **Lucero JE.** Invasive terrestrial plant species. In: Dominick A. DellaSala, Michael I. Goldstein (eds.). The Encyclopedia of the Anthropocene, vol. 4, p. 000-000. *Oxford: Elsevier*. Accepted manuscript available upon request.

2024 [24]	Humphries T*, Faist AM, Callaway RM, Lucero JE. The hotter the better: Increasing temperature, not seed predation, hastens the decline of invasive <i>Bromus tectorum</i> across climax sage-steppe communities. <i>Biological Invasions</i> 26: 4075-4087. https://doi.org/10.1007/s10530-024-03427-x
2024 [23]	Lortie CJ, Brown C, Filazzola A, Haas-Desmarais S, Callaway RM, Lucero JE, Braun J. Plant networks are more connected by invasive brome and native shrub facilitation in Central California drylands. <i>Scientific Reports</i> 14: 8958. https://doi.org/10.1038/s41598-024-59868-w
2024 [22]	Werdel TJ, Matarrita-Cascante D, Lucero JE. State of Traditional Ecological Knowledge in the wildlife management profession. <i>Journal of Wildlife Management</i> 2024: e22579. https://doi.org/10.1002/jwmg.22579
2023 [21]	Braun J, <b>Lucero JE</b> , Lortie CJ, Fox N. Competitive effects of an invasive grass species on native annuals are species-specific and independent of water availability. <i>Biological Invasions</i> 25: 3353-3359. doi.org/10.1007/s10530-023-03127-y
2023 [20]	Hallett LM, Aoyama L, Barabás G, Gilbert B, Larios L, Shackleford N, Werner CM, Godoy O, Ladouceur ER, <b>Lucero JE</b> , Weiss-Lehman CP, Chase JM, Chu C, Harpole WS, Mayfield MM, Faist AM, Shoemaker LG. Restoration ecology through the lens of coexistence theory. <i>Trends in</i> <i>Ecology and Evolution</i> 38: 1085-1096. doi.org/10.1016/j.tree.2023.06.004
2023 [19]	Matarrita-Cascante D, <b>Lucero JE</b> , Veintimilla C, Treadwell M, Fox W, Tolleson D. Leveraging social science research to advance contemporary rangeland management: Understanding the 'new faces' of range managers. <i>Rangelands</i> 45: 1-11. doi.org/10.1016/j.rala.2022.11.004
2023 [18]	Lasché SN, Schroeder RWR, McIntosh MM, Lucero JE, Spiegal SA, Funk MP, Beck RF, Holechek JL, Faist AM. Long-term growing season aridity and grazing seasonality effects on perennial grass productivity in a Chihuahuan Desert rangeland. <i>Journal of Arid Environments</i> 209: 104902. doi.org/10.1016/j.jaridenv.2022.104902.
2022 [17]	<b>Lucero JE</b> , Filazzola A, Braun J, Callaway RM, Ghazian N, Haas S, Miguel F, Owen M, Seifan M, Zuliani M, Lortie CJ. Increasing global aridity destabilizes shrub facilitation of exotic but not native plant species. <i>Global Ecology and Conservation</i> 40: e02345. doi.org/10.1016/j.gecco.2022.e02345
2022 [16]	Callaway RM, Lucero JE, Hierro JL, Lortie CJ. The EICA is dead? Long live the EICA! <i>Ecology Letters</i> 25: 2289-2302. doi.org/10.1111/ele.14088
2022 [15]	<b>Lucero JE</b> , Faist AM, Lortie CJ, Callaway RM. Risk of facilitated invasion depends upon invader identity, not environmental severity, along an aridity gradient. <i>Frontiers in Ecology and Evolution</i> 10: 886690. doi.org/10.3389/fevo.2022.886690

2021 [14]	<b>Lucero JE</b> , Callaway RM, Faist AM, Lortie CJ. An unfortunate alliance: native shrubs increase the abundance, performance, and apparent impacts of <i>Bromus tectorum</i> across a regional aridity gradient. <i>Basic and Applied</i> <i>Ecology</i> 57: 41-53. doi.org/10.1016/j.baae.2021.09.001
2021 [13]	Lortie CJ, Filazzola A, Brown C, Lucero JE, Zuliani M, Ghazian N, Haas S, Owen M, Butterfield HS, Nix E, Westphal M. Facilitation enables plant invasions and indirect negative interactions. <i>Oikos</i> 130: 1056-1061. doi.org/10.1111/oik.08443
2021 [12]	Lortie CJ, Filazzola A, Owen M, Ghazian N, Zuliani M, Haas S, Seifan M, Braun J, Miguel F, <b>Lucero JE.</b> Too much of a good thing: shrub benefactors are less important in higher diversity arid ecosystems. <i>Journal of Ecology</i> 109: 2047-2053. doi.org/10.1111/1365-2745.13596
2020 [11]	Callaway RM, Lucero JE. Soil biota and non-native plant invasions. Ch. 3 (pp. 45-67) in eds. A Travaset, DM Richardson. <i>Plant invasions: The role of biotic interactions</i> . CABI International, Wallingford, UK. doi.org/10.1079/9781789242171.0003
2020 [10]	Pik D***, Lucero JE, Braun J, Lortie CJ. Light intensity and seed density differentially affect the establishment, survival, and biomass of an exotic invader and three species of native competitors. <i>Community Ecology</i> 21: 259-272. doi.org/10.1007/s42974-020-00027-2
2020 [9]	<b>Lucero JE,</b> Arab NM, Meyer ST, Pal RW, Fletcher R, Nagy DU, Callaway RM, Weisser WW. Escape from natural enemies depends on the enemies, the invader, and competition. <i>Ecology and Evolution</i> 10: 10818-10828. doi.org/10.1002/ece3.6737
2020 [8]	<b>Lucero JE</b> , Seifan M, Callaway RM, Lortie CJ. Positive associations with native shrubs are intense and important for an exotic invader but not the native annual community across an aridity gradient. <i>Diversity and Distributions</i> 26: 1177-1197. doi.org/10.1111/ddi.13111
2019 [7]	<b>Lucero JE</b> , Schaffner U, Asadi G, Bagheri A, Rajabov T, Callaway RM. Enemy release from the effects of generalist granivores can facilitate <i>Bromus tectorum</i> invasion in the Great Basin Desert. <i>Ecology and</i> <i>Evolution</i> 9: 8490-8499. doi.org/10.1002/ece3.5314
2019 [6]	<b>Lucero JE</b> , Noble T, Haas S, Westphal M, Butterfield S, Lortie CJ. The dark side of facilitation: native shrubs facilitate exotic annuals more strongly than native annuals. <i>NeoBiota</i> 44: 75-93. doi.org/10.3897/neobiota.44.33771
2018 [5]	<b>Lucero JE.</b> Do seeds from invasive bromes experience less granivory than seeds from native congeners in the Great Basin Desert? <i>Plant Ecology</i> 219: 1053-1061. doi.org/10.1007/s11258-018-0858-7
2018 [4]	<b>Lucero JE</b> , Callaway RM. Native granivores reduce the establishment of native grasses but not invasive <i>Bromus tectorum</i> . <i>Biological Invasions</i> 20: 3491–3497. doi.org/10.1007/s10530-018-1789-x

2018 [3]	<b>Lucero JE</b> , Callaway RM. Granivory from native rodents and competition from an exotic invader strongly and equally limit the establishment of native grasses. <i>Oecologia</i> 186: 1043–1053. doi.org/10.1007/s00442-018-4085-7
2015 [2]	<b>Lucero JE,</b> McMillan BR, Allen PS. Increased primary production from an exotic invader does not subsidize native rodents. <i>PLoS ONE</i> 10: e0131564. doi.org/10.1371/journal.pone.0131564
2012 [1]	<b>Lucero JE</b> , Payne J***, McMillan BR. The valve method of decanting seeds from a flotation solution. <i>Seed Technology</i> 34: 217-226. www.jstor.org/stable/23433400
In review	<b>Lucero JE,</b> Lortie CJ, Filazzola A, Callaway RM. Shrub-facilitated invasion accelerates desertification. <i>Science</i> . Manuscript available upon request.
In review	Humphries T*, <b>Lucero JE.</b> A systematic review and meta-analysis of Old World bluestem control in the United States. <i>Rangelands</i> . Results of statistical analyses available upon request.
In review	Hines SL, Knox L, Clayton M, Steffens T, Evans S, Treadwell M, Lucero JE. TX Triple-P Level I Certified: The basics of plant identification, phenology, & value. <i>Texas A&amp;M University Press</i> . Manuscript available upon request.
Nearing submission	<b>Lucero JE</b> , Ingram AJ**. A 25-year chronosequence of <i>Bromus tectorum</i> invasion and impacts across Utah rangelands. To be submitted to <i>Rangeland Ecology and Management</i> . Results of statistical analyses available upon request.
Nearing submission	Humphries T*, Ingram A**, Faist AM, Adams BJ, <b>Lucero JE.</b> Brome, brome on the range: Invasive <i>Bromus tectorum</i> imposes site-specific but generally negative impacts on rangeland plant biodiversity. To be submitted to <i>Rangeland Ecology and Management</i> . Results of statistical analyses available upon request.
Nearing submission	Santos RR**, Goodwin DJ, Ybarra CJ**, <b>Lucero JE.</b> Neo-native <i>Heteropogon contortus</i> appears more destructive than exotic and invasive <i>Bothriochloa ischaemum</i> in South Texas rangelands. To be submitted to <i>Rangeland Ecology and Management</i> . Results of statistical analysis available upon request.
Nearing submission	Ybarra CJ**, Santo RR**, <b>Lucero JE.</b> Buffelgrass ( <i>Cenchrus ciliaris</i> ) invasion threatens plant biodiversity across edaphic conditions. To be submitted to <i>AoB Plants</i> . Results of statistical analysis available upon request.

**GRANTS AND AWARDS** (Total awarded: \$1.06M) (\* = postdoc, \*\* = graduate student, \*\*\* = undergraduate scientist in the Lucero lab)

2024 [12]	Santos R**, <b>Lucero JE.</b> Native <i>Heteropogon contortus</i> appears more destructive than non-native and invasive <i>Bothriochloa ischaemum</i> in South Texas rangelands. Sid Kyle Graduate Travel Award. TAMU (\$750). My role: Major advisor to R Santos
2024 [11]	Perotto HL, Popescu S, Werdel TK, Lucero JE, Goodwin JG, Treadwell M. Texas A&M AgriLife Research and College of Agriculture and Life Sciences Rangeland Ecology & Management Research Funding. Developing proxies for rangeland assessments using drones. TAMU (\$150,000) My role: Co-principal investigator
2022 [10]	Goodwin J, Lucero JE, Webb SJ, Werdel T. TAMU RWFM. Long- term rangeland inventory and monitoring at La Copita Ranch. TAMU (\$120,000) My role: Co-principal investigator
2021 [9]	<b>Lucero JE,</b> Weyl P, Schaffner U, Faist AM. <b>USDA-ARFI.</b> A biogeographic contrast of factors influencing invasive species abundance and management in native vs. non-native ranges. NMSU (\$650,000) My role: Principal investigator
2018 [8]	Lucero JE. York Science Fellowship. Understanding the causes and consequences of biological invasions in stressful environments. YU (\$120,000) My role: Principal writer
2016 [7]	Lucero JE*, Callaway RM. Montana IoE Graduate Enhancement Award. Do novel chemical weapons release <i>Bromus tectorum</i> from granivory in its non-native range? UM (\$4,800) My role: Principal writer
2016 [6]	<b>Lucero JE,</b> Callaway RM. <b>Drollinger-Dial Travel Award.</b> Invasive <i>Bromus tectorum</i> experiences enemy release from the effects of an important guild of generalist herbivores. UM (\$500) My role: Principal writer
2015 [5]	<b>Lucero JE,</b> Callaway RM. <b>Theodore Roosevelt Memorial Grant.</b> Does apparent competition <i>really</i> affect exotic plant invasions? UM (\$1,300) My role: Principal writer
2015 [4]	Lucero JE, Callaway RM. Drollinger-Dial Research Award. Apparent competition and exotic plant invasions: a return to fundamental theory. UM (\$1,000) My role: Principal writer
2014 [3]	Lucero JE, Callaway RM. Drollinger-Dial Research Award. A biogeographic test of the enemy release hypothesis with respect to <i>generalists</i> . UM (\$2,500) My role: Principal writer

2013 [2]	Lucero JE, Callaway RM. Montana IoE Graduate Enhancement Award. Are local community filters blind to the biogeographic origins of species? UM (\$950) My role: Principal writer
2012 [1]	Lucero JE, Callaway RM. Montana IoE Graduate Enhancement Award. A biogeographic approach to understanding North America's most "significant" plant invasion. UM (\$5,000) My role: Principal writer
	My role: Principal investigator
In review	Lucero JE, Lortie CJ, Callaway RM. NSF – Partnership to Advance Conservation Science and Practice (PACSP). Assessing and reversing desertification due to shrub-facilitated annual grass invasion. TAMU (\$750,000) My proposed role: Principal investigator
In review	Lucero JE. BLM-Idaho Invasive and Noxious Plant Management Program. Rehabilitating degraded sagebrush communities through shrub facilitation, graminicides, and restoration seeding. TAMU (\$250,000) My proposed role: Principal investigator
In prep	Lucero JE, Faist AM. BLM-California Plant Conservation and Restoration Program. Managing shrub-facilitated annual grass invasions in the Mojave Desert: Curbing invasion and enhancing restoration. TAMU (\$745,000) My proposed role: Principal investigator
In prep	Lucero JE. TAMU-Conoco/Phillips Cooperative Agreement. Restoring biodiversity and ecosystem functioning to abandoned well pads in the Permian Basin. TAMU (\$990,000) My proposed role: Principal investigator
DECLINED PROP	<b>POSALS</b> (since 2022)
2025	Rhodes AA, Plowes R, Lucero JE. NSF – Partnership to Advance Conservation Science and Practice (PACSP). Restoring invaded rangelands through native seed and soil inoculation. TAMU (\$1,500,000). Declined My role: Co-principal investigator
2025	Rhodes AA, Plowes R, Gilbert BS, Bowman L, Lucero JE. USDA- AFRI. Restoring invaded rangelands through native seed and soil inoculation. TAMU (\$750,000). <i>Declined</i> My role: Co-principal investigator
2025	<b>Lucero JE. USDA-AFRI.</b> Restoring biodiversity and ecosystem functioning to abandoned well pads across the Permian Basin. TAMU (\$750,000). <i>Declined</i>

2024	Lucero JE, Werdel TJ, Perotto H. Texas A&M AgriLife Research and College of Agriculture and Life Sciences Rangeland Ecology & Management Research Funding. Does well-pad restoration increase rangeland biodiversity and spatial heterogeneity within energy landscapes? TAMU (\$137,000). <i>Declined</i> My role: Principal investigator
2024	Werdel TJ, Lucero JE, Perotto H, Dykes JL. Texas A&M AgriLife Research and College of Agriculture and Life Sciences Rangeland Ecology & Management Research Funding. Resource selection and spatial interactions of free-roaming native, exotic, and domestic ungulates on Texas rangelands? TAMU (\$150,000). <i>Declined</i> My role: Co-principal investigator
2023	<b>Lucero JE,</b> Shackleford C. <b>USDA-AFRI.</b> Restoring biodiversity and ecosystem functioning to abandoned well pads across the Permian Basin. TAMU (\$750,000). <i>Declined</i> My role: Principal investigator
2023	Goodwin JG, Lucero JE, Tolleson DR. USDA-NRCS. Adaptive grazing management impacts on soil-focused ecosystem services and the development of practical tools for long-term monitoring. TAMU (\$479,000). <i>Declined</i> My role: Senior personnel
2023	Murano L, Fow W, <b>Lucero JE</b> , Cole K. <b>USAID Concept Note.</b> Restoring Biodiversity, Ecosystem Functioning, and Economic Viability to Degraded Watersheds in the Les Cayes region, Haiti. TAMU (\$5,000,000). <i>Declined</i> My role: Senior personnel
2022	Lopez R, Fox W, Goodwin J, Perotto H, Lucero JE, Hussey M. 2022. National Center for Vegetation Cover & Combating Desertification, Kingdom of Saudi Arabia. Pastoral restoration and culturing project. TAMU (\$3,689,000) My role: Co-principal investigator
<b>TEACHING I</b> 2024 – present	EXPERIENCE (PRIMARY INSTRUCTOR) Invasive Species Ecology and Management (RWFM 618), TAMU

3-credit graduate course<br/>New course at TAMU developed by me2023 - presentRange Ecology (RWFM 316), TAMU<br/>3-credit undergraduate course with a lab2018Wildlife Habitat Conservation and Management (WILD 370), UM<br/>4-credit undergraduate course with a lab

2013, 2014, 2016 Special Topics in Ecology and Evolution (BIOB 594), UM 1-credit graduate course

# MAJOR ADVISOR FOR GRADUATE STUDENTS

(\*successful defense and graduation)

- 2025 present Zack Shelley, MSc, TAMU
- 2024 present Johnathan Sperry, MNR, TAMU
- 2023 2025 Reanna Santos\*, MSc, TAMU
- 2023 2025 Charles Ybarra\*, MNR, TAMU

#### MAJOR ADVISOR FOR POSTDOCTORAL SCHOLARS

2023 – 2024Dr. Talia Humphries, TAMU<br/>Current position: Assistant Professor, North Dakota State University

#### SERVICE ON GRADUATE COMMITTEES

- 2024 present Muhammad Asif, PhD student, BYU (advisor: Dr. Byron Adams)
- 2023 present Shanna Gleason, MSc student, TAMU (advisor: Dr. Humberto Perotto)
- 2022 present Timothy Lyons, PhD student, TAMU (advisor: Dr. Doug Tolleson)
- 2023 2024 Adam Van Allen, MSc student, TAMU (advisor: Dr. Bill Rogers)

#### MENTORING FOR UNDERGRADUATE SCIENTISTS

Sophia Lasche, HHMI fellow, NMSU 2021 - 20222020 - 2022Ron Kleiman; research assistant, YU 2018 - 2020Diana Pik; honors thesis, YU; lead author of Pik et al. (2020) 2018 - 2020Nicholas Fox; honors thesis, YU Ben Williamson; honors thesis, UM 2015 Besan Quffa; research assistant, BYU 2009 - 20122010 - 2012Jeremy Payne; research assistant, BYU; coauthor in Lucero et al. (2012) Elissa Story; research assistant, BYU 2011 2009 - 2010Brenton Petersson; research assistant, BYU 2009 Brianne Edwards; research assistant, BYU

#### **TA EXPERIENCE**

2013, 2016, 2017	Introduction to Botany (BIOO 105), UM
2015, 2016	Discover Biology (BIOB 101), UM
2014, 2015	Rocky Mountain Flora (BIOO 335), UM
2014	Principles of Living Systems (BIOB 160), UM
2012	Introduction to the Diversity of Life (BIOB 171), UM
2012	Turf Science (PWS 319), BYU
2011	Residential Landscape Design (PWS 103), BYU
2011	Landscape Design Graphics (PWS 105), BYU
2011	Quantitative Ecology (PWS 551), BYU
2009, 2010	Introduction to Biology (BIO 130), BYU
2009, 2010	Wildlife and Fisheries Management (PWS 225)

#### **INVITED SEMINARS AND GUEST LECTURES**

2025 [21]	<b>Lucero JE.</b> Facilitated invasions in changing drylands. Invited seminar to the Department of Earth Sciences, Utah Valley, University, Orem, UT
2025 [20]	<b>Lucero JE.</b> Invasive species ecology and management. Guest Lecture for Concepts in Applied Plant Biology (RWFM 202), Texas A&M University, College Station, TX
2024 [19]	<b>Lucero JE.</b> Invasive species ecology: Native turncoats? Guest Lecture for Concepts in Applied Plant Biology (RWFM 202), Texas A&M University, College Station, TX
2024 [18]	<b>Lucero JE.</b> Livestock grazing: Good or bad for ecosystems? Guest Lecture for Foundations in Rangeland, Wildlife and Fisheries Management (WFSC 689), Texas A&M University, College Station, TX
2024 [17]	<b>Lucero JE.</b> Recovering biodiversity at abandoned well pads in the Permian Basin. Invited seminar for Texas Master Naturalist Meeting, Brazos County Chapter, College Station, TX
2023 [16]	<b>Lucero JE.</b> Invasive species ecology and management. Guest Lecture for Concepts in Applied Plant Biology (RWFM 202), Texas A&M University, College Station, TX
2023 [15]	<b>Lucero JE.</b> Facilitated invasion across dryland environments. Invited seminar for Environmental Management Seminar Series, Department of Biology, York University, Toronto, ON
2023 [14]	<b>Lucero JE.</b> Plant ecology in changing rangelands. Invited seminar for Rangeland, Wildlife and Fisheries Management Departmental Convocation, Texas A&M University, College Station, TX
2023 [13]	<b>Lucero JE.</b> Understanding patterns of biodiversity and their underlying processes. Guest Lecture for State of Texas 4-H Roundup, Ecology and Natural Resource Teaching Area, Texas A&M University, College Station, TX
2023 [12]	<b>Lucero JE.</b> Restoration of abandoned well pads in the Permian Basin. Invited seminar for the Brackenridge Field Laboratory, University of Texas at Austin, Austin, TX
2023 [11]	<b>Lucero JE.</b> My road to becoming an assistant professor at an R1 institution. Guest lecture for the seminar series of the Rangeland, Wildlife, and Fisheries Management Graduate Student Organization, College Station, TX
2023 [10]	<b>Lucero JE.</b> The dark side of facilitation: Native shrubs facilitate invasive species more than natives across dryland environments. Invited seminar for the Mojave Desert Native Seed Program, Bureau of Land Management, Palm Springs, CA
2022 [9]	<b>Lucero JE.</b> Rangeland ecology and management in changing rangelands. (2022). Joint RWFM-NRI annual retreat. Navasota, TX. Oral presentation.

2021 [8]	<b>Lucero JE.</b> Explaining, predicting, and managing plant invasions in changing rangelands. Invited seminar for the Department of Rangeland, Wildlife, and Fisheries Management, Texas A&M University, College Station, TX
2021 [7]	<b>Lucero JE.</b> Cheatgrass ( <i>Bromus tectorum</i> ) ecology and management in the Intermountain West. Invited seminar for the Department of Plant Sciences, University of Wyoming, Laramie, WY
2021 [6]	<b>Lucero JE.</b> Invasive plant ecology and management in changing rangelands. Invited seminar for the Department of Plant Sciences, University of Wyoming, Laramie, WY
2021 [5]	<b>Lucero JE.</b> Plant invasions in changing rangelands: the role of biotic interactions. Invited seminar for the Department of Agriculture and Environmental Sciences, Lincoln University, Jefferson City, MO
2020 [4]	<b>Lucero JE,</b> Callaway RM, Filazzola A, Lortie CJ. Community ecology in changing communities: biotic interactions with invasive species. Invited seminar for the Department of Biology, York University, Toronto, ON
2019 [3]	<b>Lucero JE,</b> Callaway RM, Lortie CJ. Community ecology through the lens of plant invasion. Invited seminar for the Department of Plant & Wildlife Sciences, Brigham Young University, Provo, UT
2019 [2]	<b>Lucero JE.</b> The biogeography of biotic interactions. Invited seminar for the Department of Wildland Resources, Utah State University Eastern, Price, UT
2018 [1]	<b>Lucero JE,</b> Schaffner U, Asadi G, Bagheri A, Rajabov T, Callaway RM. Small mammals, big impacts: a biogeographic perspective on how rodent foraging can influence the success of invasive plants. Invited seminar for the Department of Biology, York University, Toronto, ON

# SELECTED PRESENTATIONS AT SYMPOSIA AND CONFERENCES

(\* = postdoc, \*\* = grad student, \*\*\* = undergrad in the Lucero lab)

2025 [17]	Santos RR**, Goodwin DJ, Ybarra CJ**, <b>Lucero JE.</b> Native <i>Heteropogon contortus</i> appears more destructive than non-native and invasive <i>Bothriochloa ischaemum</i> in South Texas Rangelands. Annual meeting of the Society for Range Management. Spokane, WA. Poster presentation.
2024 [16]	<b>Lucero JE,</b> Humphries TJ*, Ingram A***, Weil P, Marini F, Faist AM. A biogeographic contrast of <i>Bromus tectorum</i> abundance and management in native vs. non-native ranges. USDA-ACES Conference, Austin, TX. Oral presentation.
2024 [15]	Santos RR**, Goodwin DJ, Ybarra CJ**, Lucero JE. Native <i>Heteropogon contortus</i> appears more destructive than non-native and invasive <i>Bothriochloa ischaemum</i> in South Texas Rangelands. Annual

	meeting of the National Grazing Lands Coalition. Tucson, AZ. Poster presentation.
2024 [14]	Gleason SR, Perotto HL, <b>Lucero JE</b> , Osorio-Leyton JM, Rogers W, Longoria W. Quantifying the Spatial Distribution of Macartney Rose Using Very Fine-Scale Resolution Imagery. Texas Section of the Society for Range Management Annual Symposium, Victoria, TX. Poster presentation.
2024 [13]	Perez KF, Perotto HL, Bernal D, Popescu S, Werdel T, Lucero JE, Goodwin J, Treadwell M. Leveraging drone technology for rangeland ecology and management. Texas Section of the Society for Range Management Annual Symposium, Victoria, TX. Poster presentation.
2024 [12]	Santos RR**, Goodwin DJ, Ybarra CJ**, <b>Lucero JE.</b> Native <i>Heteropogon contortus</i> appears more destructive than non-native and invasive <i>Bothriochloa ischaemum</i> in South Texas Rangelands. Texas Section of the Society for Range Management Annual Symposium, Victoria, TX. Oral presentation.
	<i>Note</i> : RR Santos won 2 <sup>nd</sup> place in the TSSRM Pendelton Student Oral Presentation Contest for this presentation
2024 [11]	Werdel TJ, <b>Lucero JE</b> , Matarrita-Cascante D. State of traditional ecological knowledge in the wildlife management profession. Texas Chapter of The Wildlife Society Annual Symposium, Houston, TX. Oral presentation.
2024 [10]	Matarrita-Cascante D, Lucero JE, Veintimilla C, Treadwell M, Fox W, Tolleson D. Leveraging social science research to advance contemporary rangeland management: Understanding the 'new faces' of range managers. Society for Range Management Annual Symposium, Sparks, NV. Oral presentation.
2024 [9]	Santos RR**, Goodwin DJ, Lucero JE. Principle vs. practice: Redirecting the Narrative of Rangeland Management. Society for Range Management Annual Symposium, Sparks, NV. Poster presentation.
2022 [8]	Matarrita-Cascante D, Veintemilla C, Treadwell M, Fox B, Tolleson D, Lucero JE. Why Does Rangeland Management Need Social Science Research? Understanding the 'New Faces' of Range Managers. International Association for Society and Natural Resources Annual Symposium, San José, Costa Rica. Oral presentation.
2020 [7]	<b>Lucero JE</b> , Seifan M, Callaway RM, Lortie CJ. The wrong kind of help: Positive associations with native shrubs are intense and important for an exotic invader but not the native annual community across two North American deserts. Ecological Society of America Annual Symposium, Salt Lake City, UT. Oral presentation.
2018 [6]	Lucero JE, Callaway RM. Invasive <i>Bromus tectorum</i> experiences enemy release from an important guild of generalist herbivores. International

	Association for Vegetation Science Annual Symposium, Bozeman, MT. Oral presentation.
2017 [5]	<b>Lucero JE</b> , Callaway RM. A biogeographic perspective on the impacts of rodent granivory on native vs. invasive plants. OBE Seminar Series, UM, Missoula, MT. Oral presentation.
2016 [4]	<b>Lucero JE</b> , Callaway RM. Invasive <i>Bromus tectorum</i> experiences enemy release from generalist granivores. American Society of Mammalogists Annual Symposium, Minneapolis, MN. Oral presentation.
2014 [3]	<b>Lucero JE,</b> Callaway RM. Obstacles to restoration: selective granivory. Northern Rockies Invasive Plant Conference, Spokane, WA. Oral presentation.
2011 [2]	<b>Lucero JE</b> , McMillan BR, Allen PS. <i>Bromus tectorum</i> , native grasses, and small mammals in the Great Basin: a test of the apparent competition hypothesis. American Society of Mammalogists Annual Symposium, Portland, OR. Oral presentation.
2010 [1]	<b>Lucero JE</b> , McMillan BR, Allen PS. Apparent competition may facilitate cheatgrass ( <i>Bromus tectorum</i> ) invasion. Brigham Young University-Utah Division of Wildlife Resources coordination meeting, Provo, UT. Oral presentation.

# **EDITORIAL SERVICE**

2025 – present Associate Editor, Rangeland Ecology and Management

**PEER REVIEW SERVICE** (no. reviews in parentheses; journals in alphabetical order) American Journal of Botany (2), Aquatic Ecology (2)\*, Arid Land Research and Management (2), Biological Conservation (2), Biological Invasions (1), Canadian Journal of Forest Research (1), Ecological Applications (8), Ecology (5), Ecology and Evolution (6)\*, Ecology Letters (1)\*, Ecosphere (4), Ecosystems (1), Global Ecology and Conservation (3), Grass and Forage Science (4), Integrative Zoology (3), Journal of Applied Ecology (2), Journal of Arid Environments (2), Journal of Ecology (13), Journal of Plant Ecology (1), Journal of Vegetation Science (1)\*, NeoBiota (2), New Phytologist (2), Oecologia (6), Oikos (4)\*, Peer J (2), Plant and Soil (1), Plant Ecology (3), Plant Ecology and Evolution (1), Plant Ecology and Diversity (1), Plant-Environment Interactions (1), Restoration Ecology (7)\*, Science of the Total Environment (3), Western North American Naturalist (2). **Total: 99** 

\*Reviews performed Jan. 1, 2025 - Dec. 31, 2025. Number of \* gives number of reviews in this period.

# **UNIVESRSITY SERVICE**

2022 – present	Faculty Advisor, Latter-day Saint Student Association of Texas A&M University, TAMU
2023 – present	Faculty Co-advisor, Range Club, Department of Rangeland, Wildlife and Fisheries Management, TAMU

# PERSONAL INTERESTS

Fly fishing, mountain biking, running, field botany, geology, wrangling and hogtying my silly kids