Jacob E. Lucero

Assistant Professor of Rangeland Global Change Ecology
Department of Rangeland, Wildlife and Fisheries Management
Texas A&M University
College Station, TX
Email: jelucero@tamu.edu

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: **Dr. Akasha M. Faist**
2018 – 2020	Visiting Postdoctoral Research Fellow York University (YU); supervisor: **Dr. Christopher J. Lortie**
2017 – 2018	Postdoctoral Research Associate University of Montana (UM); supervisor: **Dr. Ragan M. Callaway**

EDUCATION

2017	PhD in Organismal Biology, Ecology, and Evolution UM; advisor: **Dr. Ragan M. Callaway**
2012	MSc in Wildlife and Wildlands Conservation Brigham Young University (BYU); advisor: **Dr. Brock R. McMillan**
2008	BSc in Landscape Management BYU

PUBLICATIONS

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

In press [26] Rogers WE, **Lucero JE.** Invasive terrestrial plant species. In: Dominick A. Della Sala, Michael I. Goldstein (eds.). The Encyclopedia of the Anthropocene, vol. 4, p. 000-000. *Oxford: Elsevier.* Accepted manuscript available upon request.

2025 [25] 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. *Texas A&M University Press.* https://agrilifelearn.tamu.edu/s/product/texas-triplep-level-1-certification-the-basics-of-plant-identification-phenology-value/01tKY000000HVlyYAG

2024 [24] Humphries T*, Faist AM, Callaway RM, **Lucero JE.** The hotter the better: Increasing temperature, not seed predation, hastens the decline of invasive *Bromus tectorum* across climax sage-steppe communities. *Biological Invasions* 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. *Scientific Reports* 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. *Journal of Wildlife Management* 2024: e22579. https://doi.org/10.1002/jwmg.22579

2023 [21] Braun J, **Lucero JE,** Lortie CJ, Fox N. Competitive effects of an invasive grass species on native annuals are species-specific and independent of water availability. *Biological Invasions* 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, **Lucero JE,** Weiss-Lehman CP, Chase JM, Chu C, Harpole WS, Mayfield MM, Faist AM, Shoemaker LG. Restoration ecology through the lens of coexistence theory. *Trends in Ecology and Evolution* 38: 1085-1096. doi.org/10.1016/j.tree.2023.06.004

2023 [19] 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. *Rangelands* 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. *Journal of Arid Environments* 209: 104902. doi.org/10.1016/j.jaridenv.2022.104902.

2022 [17] **Lucero JE,** 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. *Global Ecology and Conservation* 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! *Ecology Letters* 25: 2289-2302. doi.org/10.1111/ele.14088

2022 [15] **Lucero JE,** Faist AM, Lortie CJ, Callaway RM. Risk of facilitated invasion depends upon invader identity, not environmental severity, along an aridity gradient. *Frontiers in Ecology and Evolution* 10: 886690. doi.org/10.3389/fevo.2022.886690

2021 [14] **Lucero JE,** Callaway RM, Faist AM, Lortie CJ. An unfortunate alliance: native shrubs increase the abundance, performance, and apparent impacts of *Bromus tectorum* across a regional aridity gradient. *Basic and Applied Ecology* 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. *Oikos* 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, **Lucero JE.** Too much of a good thing: shrub benefactors are less important in higher diversity arid ecosystems. *Journal of Ecology* 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. *Plant invasions: The role of biotic interactions*. 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. *Community Ecology* 21: 259-272. doi.org/10.1007/s42974-020-00027-2

2020 [9] **Lucero JE,** 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. *Ecology and Evolution* 10: 10818-10828. doi.org/10.1002/ece3.6737

2020 [8] **Lucero JE,** 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. *Diversity and Distributions* 26: 1177-1197. doi.org/10.1111/ddi.13111

2019 [7] **Lucero JE,** Schaffner U, Asadi G, Bagheri A, Rajabov T, Callaway RM. Enemy release from the effects of generalist granivores can facilitate *Bromus tectorum* invasion in the Great Basin Desert. *Ecology and Evolution* 9: 8490-8499. doi.org/10.1002/ece3.5314

2019 [6] **Lucero JE,** 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. *NeoBiota* 44: 75-93. doi.org/10.3897/neobiota.44.33771

2018 [5] **Lucero JE.** Do seeds from invasive bromes experience less granivory than seeds from native congeners in the Great Basin Desert? *Plant Ecology* 219: 1053-1061. doi.org/10.1007/s11258-018-0858-7

2018 [4] **Lucero JE,** Callaway RM. Native granivores reduce the establishment of native grasses but not invasive *Bromus tectorum*. *Biological Invasions* 20: 3491–3497. doi.org/10.1007/s10530-018-1789-x

2018 [3] **Lucero JE,** Callaway RM. Granivory from native rodents and competition from an exotic invader strongly and equally limit the establishment of native grasses. *Oecologia* 186: 1043–1053. doi.org/10.1007/s00442-018-4085-7

2015 [2] **Lucero JE,** McMillan BR, Allen PS. Increased primary production from an exotic invader does not subsidize native rodents. *PLoS ONE* 10: e0131564. doi.org/10.1371/journal.pone.0131564

2012 [1] **Lucero JE,** Payne J***, McMillan BR. The valve method of decanting seeds from a flotation solution. *Seed Technology* 34: 217-226. www.jstor.org/stable/23433400

In revision **Lucero JE,** Lortie CJ, Filazzola A, Callaway RM. Shrub-facilitated invasion accelerates desertification. *Ecological Applications*. Manuscript available upon request.

In revision Humphries T*, **Lucero JE.** A systematic review and meta-analysis of Old World bluestem control in the United States. *Rangelands.* Manuscript available upon request.

In revision Ybarra CJ**, Santo RR**, **Lucero JE.** Buffelgrass (*Cenchrus ciliaris*) invasion threatens plant biodiversity across edaphic conditions. *AoB Plants*. Manuscript available upon request.

In revision Santos RR**, Goodwin DJ, Ybarra CJ**, **Lucero JE.** Neo-native *Heteropogon contortus* appears more destructive than exotic and invasive *Bothriochloa ischaemum* in South Texas rangelands. *Rangeland Ecology and Management*. Manuscript available upon request.

In review Nagy DU, Callaway RM, Flory SL, Barratt CD, Lekberg Y, Lucas MS, Onstein RE, Pal R, Selke J, Thoma AS, Al-Ghareibeh M, Andraca-Gómez G, Olsson PA, Babaei S, Bastida F, Bennett J, Brunharo C, Cullen DA, Donnelly R, Durka W, Ennis A, Ensing DJ, O Eren, Fazlioglu F, Filep R, Flessner M, Frazee LJ, González L, Gudžinskas Z, Guilliams M, Hajdari A, Haramoto E, Haughian SR, Heberling M, Hensen I, Jandová K, Jhala A, Jia X, Jun L, Kaproth MA, Kassem HK, Khabbach A, Khasa DP, Koski M, Kožić K, Krigas N, La Bella G, Lasky JR, Lee B, Leger E, Lemly J, Libiad M, Lorenzo P, Lozano V, **Lucero JE**, Makhkamov T, Marchante E, Marchante H, Marshall V, Moffat C, Moore M, Nagy S, Namazi A, Nersesyan A, Novikov A, Okada M, Oprea A, Papikyan A, Primack R,

	Proctor C, Ramula S, Rauschert E, Reatini B, Rixen C, Rush S, Rutten G, Sadeghpour A, Samartza IE, Sarmati S, Scheepens JF, Shah MA, Sheng M, ShukherdorjB, Sikkema P, Silliman C, Slate ML, St. Clair S, Stein C, Stevermer K, Suzuki SN, Tashpulatov Y, Tunoda T, Turginov O, Vakhlamova T, van Dam NM, Wagner V, Westberg L, Xiao S, Zhang Z, Rosche C. Rapid and repeated evolution of increased competitive ability in a global invader. *Nature.* Manuscript available upon request.
In review	Callaway RM, Lortie CJ, Ridenour WM, **Lucero JE.** Fertile islands trump aridity on an aridity gradient – a course correction for stress theory? *Ecology.* Manuscript available upon request.
Nearing submission	**Lucero JE,** Ingram AJ**. A 25-year chronosequence of *Bromus tectorum* invasion and impacts across Utah rangelands. To be submitted to *Rangeland Ecology and Management.* Results of statistical analyses available upon request.
Nearing submission	Humphries T*, Ingram A**, Faist AM, Adams BJ, **Lucero JE.** Brome, brome on the range: Invasive *Bromus tectorum* imposes site-specific but generally negative impacts on rangeland plant biodiversity. To be submitted to *Rangeland Ecology and Management.* Results of statistical analyses available upon request.

GRANTS AND AWARDS (Total awarded: $1.08M)

(* = postdoc, ** = graduate student, *** = undergraduate scientist in the Lucero lab)

2025 [13]	**Lucero JE,** Goodwin J. **Texas A&M AgriLife Research FY26-27 Capacity Support for Graduate Students and Postdoctoral Scholars Program.** Connecting brush management to rangeland resources at La Copita Ranch. TAMU ($18,000). My role: Co-principal investigator
2024 [12]	Santos R**, **Lucero JE.** Native *Heteropogon contortus* appears more destructive than non-native and invasive *Bothriochloa ischaemum* 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] **Lucero JE,** Weyl P, Schaffner U, Faist AM. **USDA-ARFI.** 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 *Bromus tectorum* from granivory in its non-native range? UM ($4,800)
My role: Principal writer

2016 [6] **Lucero JE,** Callaway RM. **Drollinger-Dial Travel Award.** Invasive *Bromus tectorum* experiences enemy release from the effects of an important guild of generalist herbivores. UM ($500)
My role: Principal writer

2015 [5] **Lucero JE,** Callaway RM. **Theodore Roosevelt Memorial Grant.** Does apparent competition *really* 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 *generalists*. 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

In review **Lucero JE,** Tomeček JM. **RWFM-USDA Wildlife Services, Animal Plant Health Inspection Service.** Linking feral swine impacts on plant communities to implications for grazing management in Texas rangelands. TAMU ($503,000)
My proposed role: Principal investigator

In review **Lucero JE. BLM-Rangeland Resource Management Program.**

Restoring rangeland health to abandoned well pads across the Permian Basin of New Mexico through enhanced restoration seeding. TAMU ($377,000)
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 PROPOSALS (since 2022)

2025 **Lucero JE. BLM- Invasive and Noxious Plant Management Program.** Harnessing shrub facilitation, graminicides, and restoration seeding to rehabilitate degraded sagebrush understories invaded by *Bromus tectorum* across Idaho rangelands. TAMU ($368,000)
My role: Principal investigator

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). *Declined*
My role: Co-principal investigator

2025 **Lucero JE. USDA-AFRI.** Restoring biodiversity and ecosystem functioning to abandoned well pads across the Permian Basin. TAMU ($750,000). *Declined*

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). *Declined*
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). *Declined*
My role: Co-principal investigator

2023 **Lucero JE,** Shackleford C. **USDA-AFRI.** Restoring biodiversity and ecosystem functioning to abandoned well pads across the Permian Basin. TAMU ($750,000). *Declined*
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). *Declined*
My role: Senior personnel

2023 Murano L, Fow W, **Lucero JE,** Cole K. **USAID Concept Note.** Restoring Biodiversity, Ecosystem Functioning, and Economic Viability to Degraded Watersheds in the Les Cayes region, Haiti. TAMU ($5,000,000). *Declined*
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

TEACHING EXPERIENCE (PRIMARY INSTRUCTOR)

2024 – present Invasive Species Ecology and Management (RWFM 618), TAMU
3-credit graduate course
New course at TAMU developed by me

2023 – present Range Ecology (RWFM 316), TAMU
3-credit undergraduate course with a lab

2018 Wildlife Habitat Conservation and Management (WILD 370), UM
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
2023 – 2024 Amber Ingram, PhD, TAMU

MAJOR ADVISOR FOR POSTDOCTORAL SCHOLARS

2023 – 2024 Dr. Talia Humphries, TAMU
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

2021 – 2022 Sophia Lasche, HHMI fellow, NMSU
2020 – 2022 Ron Kleiman; research assistant, YU
2018 – 2020 Diana Pik; honors thesis, YU; **lead author of Pik et al. (2020)**
2018 – 2020 Nicholas Fox; honors thesis, YU
2015 Ben Williamson; honors thesis, UM
2009 – 2012 Besan Quffa; research assistant, BYU
2010 – 2012 Jeremy Payne; research assistant, BYU; **coauthor in Lucero et al. (2012)**
2011 Elissa Story; research assistant, BYU
2009 – 2010 Brenton 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] **Lucero JE.** Facilitated invasions in changing drylands. Invited seminar to the Department of Earth Sciences, Utah Valley, University, Orem, UT

2025 [20] **Lucero JE.** Invasive species ecology and management. Guest Lecture for Concepts in Applied Plant Biology (RWFM 202), Texas A&M University, College Station, TX

2024 [19] **Lucero JE.** Invasive species ecology: Native turncoats? Guest Lecture for Concepts in Applied Plant Biology (RWFM 202), Texas A&M University, College Station, TX

2024 [18] **Lucero JE.** 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] **Lucero JE.** 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] **Lucero JE.** Invasive species ecology and management. Guest Lecture for Concepts in Applied Plant Biology (RWFM 202), Texas A&M University, College Station, TX

2023 [15] **Lucero JE.** Facilitated invasion across dryland environments. Invited seminar for Environmental Management Seminar Series, Department of Biology, York University, Toronto, ON

2023 [14] **Lucero JE.** Plant ecology in changing rangelands. Invited seminar for Rangeland, Wildlife and Fisheries Management Departmental Convocation, Texas A&M University, College Station, TX

2023 [13] **Lucero JE.** 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] **Lucero JE.** 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] **Lucero JE.** 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] **Lucero JE.** 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] **Lucero JE.** Rangeland ecology and management in changing rangelands. (2022). Joint RWFM-NRI annual retreat. Navasota, TX. Oral presentation.

2021 [8] **Lucero JE.** 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] **Lucero JE.** Cheatgrass (*Bromus tectorum*) ecology and management in the Intermountain West. Invited seminar for the Department of Plant Sciences, University of Wyoming, Laramie, WY

2021 [6] **Lucero JE.** Invasive plant ecology and management in changing rangelands. Invited seminar for the Department of Plant Sciences, University of Wyoming, Laramie, WY

2021 [5] **Lucero JE.** 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] **Lucero JE,** 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] **Lucero JE,** 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] **Lucero JE.** The biogeography of biotic interactions. Invited seminar for the Department of Wildland Resources, Utah State University Eastern, Price, UT

2018 [1] **Lucero JE,** 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**, **Lucero JE.** Native *Heteropogon contortus* appears more destructive than non-native and invasive *Bothriochloa ischaemum* in South Texas Rangelands. Annual meeting of the Society for Range Management. Spokane, WA. Poster presentation.

2024 [16] **Lucero JE,** Humphries TJ*, Ingram A***, Weil P, Marini F, Faist AM. A biogeographic contrast of *Bromus tectorum* 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 *Heteropogon contortus* appears more destructive than non-native and invasive *Bothriochloa ischaemum* in South Texas Rangelands. Annual meeting of the National Grazing Lands Coalition. Tucson, AZ. Poster presentation.

2024 [14] Gleason SR, Perotto HL, **Lucero JE,** 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**, **Lucero JE.** Native *Heteropogon contortus* appears more destructive than non-native and invasive *Bothriochloa ischaemum* in South Texas Rangelands. Texas Section of the Society for Range Management Annual Symposium, Victoria, TX. Oral presentation. ***Note*:** RR Santos won 2nd place in the TSSRM Pendelton Student Oral Presentation Contest for this presentation
2024 [11]	Werdel TJ, **Lucero JE,** 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]	**Lucero JE**, 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 *Bromus tectorum* experiences enemy release from an important guild of generalist herbivores. International Association for Vegetation Science Annual Symposium, Bozeman, MT. Oral presentation.
2017 [5]	**Lucero JE**, 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] **Lucero JE**, Callaway RM. Invasive *Bromus tectorum* experiences enemy release from generalist granivores. American Society of Mammalogists Annual Symposium, Minneapolis, MN. Oral presentation.

2014 [3] **Lucero JE,** Callaway RM. Obstacles to restoration: selective granivory. Northern Rockies Invasive Plant Conference, Spokane, WA. Oral presentation.

2011 [2] **Lucero JE**, McMillan BR, Allen PS. *Bromus tectorum*, 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] **Lucero JE**, McMillan BR, Allen PS. Apparent competition may facilitate cheatgrass (*Bromus tectorum*) invasion. Brigham Young University-Utah Division of Wildlife Resources coordination meeting, Provo, UT. Oral presentation.

PROFESSIONAL SERVICE

2025 – present Associate Editor, *Rangeland Ecology and Management*

2025 – present Associate Editor, *Biological Invasions*

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

PEER REVIEW SERVICE (no. reviews in parentheses; journals in alphabetical order) American Journal of Botany (2), Annals of Botany (1)*, Aquatic Ecology (2)*, Arid Land Research and Management (2), Biological Conservation (2), Biological Invasions (2)*, Canadian Journal of Forest Research (1), Ecological Applications (8), Ecology (5), Ecology and Evolution (6)*, Ecology Letters (1)*, Ecosphere (4), Ecosystems (1), Functional Ecology (2)**, 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), Rangeland Ecology and Management (5)*****, Restoration Ecology (8)**, Science of the Total Environment (3), Western North American Naturalist (2). **Total: 109**

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

PERSONAL INTERESTS

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