

Amy C. Ganguli

*Professor of Rangeland Ecology, Cooperative Extension Specialist, and
Marley Endowed Chair for Sustainable Rangeland Stewardship*

EDUCATION

Oklahoma State University	Rangeland Ecology (Degree Title: Crop Science)	Ph.D.	2005
Texas Tech University	Rangeland Science	M.S.	1999
University of Rhode Island	Wildlife Biology & Management	B.S.	1997
Harvard University	Public Leadership Credential, John F. Kennedy School of Government		(Spring, 2026)

ACADEMIC PROFESSIONAL PROFILE

Dedicated academic with extensive experience in research, teaching, mentoring students, and outreach. Proven track record of conducting impactful rangeland research in support of sustainable working lands resulting in numerous refereed and non-refereed publications. Community oriented professional who values engaging and fostering collaboration between academics, citizens, and local organizations to facilitate the development of transdisciplinary teams and outcomes. Committed educator who creates inclusive learning environments, while employing innovative educational methodologies that inspire learners to be active participants. Adept at mentoring students and junior faculty, promoting academic excellence, and contributing to academic program development.

RECENT ACADEMIC EXPERIENCE

**Professor of Rangeland Ecology, Cooperative Extension Specialist, and
Marley Endowed Chair for Sustainable Rangeland Stewardship** Sept. 2025 – Present
University of Arizona
School of Natural Resources and the Environment

Associate Professor July 2017 – May 2021
Assistant Professor Aug. 2012 – July 2017
New Mexico State University
Department of Animal and Range Sciences

As a faculty member in the Animal and Range Sciences Department my position consisted of a broad range of research, teaching, outreach, and leadership duties and functions that support NMSU's land-grant mission and the needs of our stakeholders.

- Established a stakeholder engaged rangeland ecology research program that addressed topics such as restoration ecology, land management effects on ecosystem services, climate change and drought resilience/adaptation strategies.
- Taught range science undergraduate and graduate courses, advised and mentored students, led curriculum assessment and development.
- Developed outreach products and delivered timely presentations and workshops.
- Directed the Natural Resource Career Development Program (NRCDP), which was aimed at strengthening the diversity mission of USDA-FPAC. I recruited, interviewed, selected and mentored students from underrepresented backgrounds and placed them in third party internships

with USDA-FPAC agencies across the Western U.S.

FEDERAL PROFESSIONAL PROFILE

Collaborative, innovative, solutions-oriented leader that developed, implemented, refined, and led agency funding programs and Federal Interagency efforts that benefitted U.S. Agriculture. Recognized as a thought leader for sustainable agriculture and for developing strategic partnerships to advance new programs. Committed to process improvement and developing strategies that improved internal and external operations. Strategic thinker that balanced short-term priorities with long-term goals utilizing agile leadership. Exceptional verbal and written skills with the ability to synthesize complex information for informed leadership.

RECENT FEDERAL EXPERIENCE

National Program Leader, (GS-401-15/5)	July 2022 – Present
National Program Leader, (GS-401-14/7)	June 2021 – July 2022
Panel Manager, (GS-15/1)	July 2019 – June 2021

USDA, National Institute of Food and Agriculture

As a National Program Leader in the Division of Global Climate I provided science expertise, leadership, and communication to advance research, extension, and education in the areas of climate change and sustainable agriculture. Some of my primary duties included:

- Developing, leading, and managing competitive funding programs.
- Providing science leadership in the areas of bioenergy, natural resources, environment, and climate.
- Representing NIFA in interagency efforts such as the Plant Conservation Alliance, USDA Science and Research Strategy, and the National Atmospheric Deposition Program.
- Representing USDA in the Global Research Alliance on Agricultural Greenhouse Emissions, Livestock Research Group.

OTHER RELEVANT EMPLOYMENT

Assistant Professor, North Dakota State University School of Natural Resource Sciences	Sept. 2009 – Aug. 2012
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Established a research program coupling fire behavior and fire effects in rangelands. Specific areas of research included fire as a component of integrated weed management, effects of invasive plant species on fire behavior, fire season and fire frequency effects on plant communities and individual plants. Taught rangeland management courses and mentored undergraduate and graduate students.

Research Ecologist (Post-doc), USDA Forest Service Rocky Mountain Research Station - Boise	Nov. 2008 – Sept. 2009
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Collaborated on a multi-state, multi-institution project developing post-wildfire restoration strategies for Great Basin sagebrush steppe communities with an emphasis on the effects of different restoration practices on plant establishment and soil chemical and physical properties.

Ecosystem Ecologist, Ecosystem Management Research Institute	July 2005 – Sept. 2008
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Developed ecosystem-based approaches to natural resource management that integrated ecological, social, and economic objectives. Our clients and partners included federal and state agencies, private oil and gas corporations, private landowners, and non-governmental organizations. We balanced the needs of

livestock production and energy development (e.g., oil, gas, wind) in working landscapes with multiple objectives including ecosystem diversity for wildlife habitat.

RELEVANT TRAINING

Federal Appropriations Law, four-day training offered by Graduate School USA 2023
 Interpreting Indicators of Rangeland Health v5, four-day training, Grand Junction, CO 2018

FUNDING

- CO-PI Enhancing Hispanic Access to Natural Resource and Agricultural Careers through Education Mentorship and Training "ENHANCEMENT". 2020-2024. USDA, National Institute of Food and Agriculture. \$1,000,000.
- PI Natural Resource Career Development Program. USDA, Natural Resources Conservation Service.
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|-----------|-----------|
| 2019-2021 | \$150,000 |
| 2018-2020 | \$175,000 |
| 2016-2018 | \$150,000 |
- PI NM State Bill 255 *Appropriation for ground water resources in Colfax, Harding, Mora, and Union Counties*. 2019-2020. State of New Mexico 53rd Legislature, \$50,000
- CO-PI Utilizing real-time precision weather stations to improve and evaluate mesquite herbicide treatments. 2019-2022. USDA, Natural Resources Conservation Service. \$225,000.
- PI Participatory approaches to Agroecosystem Resilience In times of Drought (ARID): an example from the Southern Great Plains. 2018-2023. USDA, National Institute of Food and Agriculture. \$1,188,000.
- PI Ecosystem health in the Rio Puerco watershed. 2018-2021. USDA, Natural Resources Conservation Service. \$75,000
- PI Pairing groundwater and climate data to inform sustainable ranch management in uncertain times. 2018-2021. USDA, Sustainable Agriculture Research and Education. \$50,000
- CO-PI Consolidating, modernizing and harnessing the full potential of two herbaria collections at New Mexico State University. 2018-2021. National Science Foundation. \$422,960.
- PI Ecological Site Development in New Mexico. 2017-2019. USDA, Natural Resources Conservation Service. \$300,000.
- PI Effects of conservation practices on ecosystem health in the Rio Puerco watershed. 2016-2018. USDA, Natural Resources Conservation Service. \$50,000.
- CO-PI Effects of NRCS and BLM conservation practices on plant and soil biological communities and hydrologic processes in the Rio Puerco Watershed. New Mexico Water Resources Research Institute. 2016-2017. \$6,000.
- PI Fire behavior and fire effects in southwestern rangeland and forest ecosystems. 2015. New Mexico Highlands University (via. USDA Forest Service). \$50,000.
- PI Effectiveness monitoring of natural resource damage assessment projects in New Mexico stream/riparian areas and wetland ecosystems. 2014-2019. Grant County Soil and Water Conservation District (via. USFWS). \$50,000.
- CO-PI Training for Undergraduate Research Experience for Future Grant-Supported Research and Documentation. 2014-2015. USDA, National Institute of Food and Agriculture. \$140,000.

- CO-PI Genetics of Kentucky bluegrass and biotic/abiotic influences of bluegrass management efforts. USDI, Fish and Wildlife Service. 2011-2015. \$99,000.
- PI Influence of wildland restoration strategies on soil chemical and physical properties. USDA, Forest Service. 2010-2014. \$22,800.
- PI Fire, Drought, and Grazing Interactions in Northern Mixed Prairie. 2011-2013 USDA, Agriculture Research Service. \$35,500.
- CO-PI Impacts of different timing intervals of prescribed burning and mowing on Kentucky bluegrass infested rangeland on Camp Grafton- South Unit. 2010-2013. North Dakota Army National Guard. \$57,339.
- CO-PI Influence of wildland restoration strategies post-wildfire on soil chemical and physical properties. 2010-2012. USDA, Forest Service. \$59,028.
- PI Fire and nitrogen effects on red three-awn communities in the northern Plains. 2010-2011. USDA, Agriculture Research Service. \$30,600.
- PI Rangeland Pollinators: A special issue of *Rangelands*. 2010-2011.
Xerces Society for Invertebrate Conservation \$3,000.
USDA, Natural Resources Conservation Service \$5,000
USDA, Forest Service \$2,000
- PI Using NRCS ecological sites and ecosystem modeling for collaborative conservation and management planning. 2008-2009. USDA, Natural Resources Conservation Service, Montana Conservation Innovation Grant. \$70,000.
- Co-PI A measurement system for offsite mitigation that uses NRCS ecological sites to enhance ecosystem health and wildlife habitat. 2008-2009. USDA, Natural Resources Conservation Service, Colorado Conservation Innovation Grant. \$81,880.
- PI Clearwater valley coordinated invasive species management. 2008. Seeley Lake Community Foundation. \$2,500*.

NMSU RESEARCH FOUNDATION DONATIONS

Judith McBean Foundation	\$63,000	from 2016-2020
Land Life Company	\$10,000	from 2016-2017

PEER REVIEWED PUBLICATIONS (* - former graduate student)

- Morra, B.M., B.A. Newingham, A.C. Ganguli, B.K. Howard, N.L. Shaw. 2024. Effects of post wildfire mechanical seeding on soil properties in Wyoming Big Sagebrush communities. *Rangeland Ecology and Management* 96:163-172. <https://doi.org/10.1016/j.rama.2024.06.011>
- Dufek*, N.A., L.T. Vermeire, R.C. Waterman, and A.C. Ganguli. 2023. Fire and nitrogen effects on *Aristida purpurea* mineral concentrations. *Rangeland Ecology and Management* 86:44-49. <https://doi.org/10.1016/j.rama.2022.10.006>
- Ganguli, A.C. and M.E. O'Rourke. How vulnerable are rangelands to grazing. 2022. *Science* 378:834. <https://www.science.org/doi/10.1126/science.add4278>
- Stricklan, D., A. Cibils, P. Saud, R. Steiner, M.M. McIntosh, A.C. Ganguli, D.S. Cram, and A.M. Faist. 2022. Dispersal patterns of one-seed juniper seeds contained in mammal scats and bird pellets. *Forests* 13:1693. <https://doi.org/10.3390/f13101693>

- Acharya, P., R. Ghimire, W.S. Paye, **A.C. Ganguli**, and S.J. DelGrosso. 2022. Net greenhouse gas balance with cover crops in semiarid and irrigated cropping systems. *Scientific Reports* 12:(1) <https://doi.org/10.1038/s41598-022-16719-w>
- Stovall*, M.S., **A.C. Ganguli**, J.W. Schallner, A.M. Faist, Q. Yu, and N. Pietrasiak. 2022. Can biological soil crusts be prominent landscape components in rangelands? A case study from New Mexico, USA. *Geoderma* 410:115658 <https://doi.org/10.1016/j.geoderma.2021.115658>
- Schallner*, J.W., J. Johnson, J. Williams, and **A.G. Ganguli**. 2021. Evaluation of a runoff monitoring methodology for rangelands UBeTubes. *Rangeland Ecology and Management* 78:46-50. <https://doi.org/10.1016/j.rama.2021.05.003>
- Newingham, B., E. Kachergis, **A.C. Ganguli**, and S.E. McCord. 2021. Lessons given and learned from rangeland monitoring courses. *Rangelands* 44. <https://doi.org/10.1016/j.rala.2021.08.003>
- Kimiti*, D., **A.C. Ganguli**, J. Herrick, and D. Bailey. 2020. Evaluation of restoration success to inform future restoration efforts in *Acacia reficiens* invaded rangelands in northern Kenya. *Ecological Restoration* 38:105-113. <https://doi.org/10.3368/er.38.2.105>
- Kimiti*, D., **A.C. Ganguli**, J. Herrick, J. Karl, and D. Bailey. 2020. A decision support system for incorporating land potential information in the evaluation of restoration outcomes. *Ecological Restoration* 38:94-104. <https://doi.org/10.3368/er.38.2.94>
- Murray, L., B.J. Schutte, C. Sutherland, L. Beck, and **A.C. Ganguli**. 2019. Integrating conventional management methods with biological control for enhanced *Tamarix* management. *Invasive Plant Science and Management*. <https://doi.org/10.1017/inp.2019.20>
- Murray, L., B. Schutte, **A.C. Ganguli**, and E. Lehnhoff. 2019. Impacts of *Tamarix* litter and mycorrhizal amendments on *Baccharis salicifolia* competitiveness and mycorrhizal colonization. *Agronomy Journal* 9: 453. <https://doi.org/10.3390/agronomy9080453>
- Burke, R., J.K. Frey, **A.C. Ganguli**, and K.E. Stoner. 2019. Species distribution modeling supports “nectar corridor” hypothesis for migratory nectarivorous bats and conservation of tropical dry forests. *Diversity and Distributions* 00:1-17. <https://doi.org/10.1111/ddi.12950>
- Herrick, J., J. Neff, A. Quandt, S. Salley, J. Maynard, **A. Ganguli**, and B. Bestelmeyer. 2019. Prioritizing land for investments based on short- and long-term land potential and degradation risk. *Environmental Science and Policy* 96:52-58. <https://doi.org/10.1016/j.envsci.2019.03.001>
- Russell*, M., L.T. Vermeire, **A.C. Ganguli**, and J.R. Hendrickson. 2019. Fire return interval and season of fire alters bud banks. *Rangeland Ecology and Management*. 72:542-550. <https://doi.org/10.1016/j.rama.2018.12.003>
- Estell, R.E., A.F. Cibils, S.A. Utsumi, D. Stricklan, E.M. Butler, A.I. Fish, and **A.C. Ganguli**. 2018. Controlling one-seed juniper saplings with small ruminants: what we've learned. *Rangelands* 40:129-135. <https://doi.org/10.1016/j.rala.2018.07.002>
- Kral, K., R. Limb, **A. Ganguli**, T. Hovick, and K. Sedivec. 2018. Seasonal prescribed fire variation decreases inhibitory ability of *Poa pratensis* L. and promotes native plant diversity. *Journal of Environmental Management* 223:908-916. <https://doi.org/10.1016/j.jenvman.2018.06.096>
- Riley, E.T., N. Vadiée, and **A.C. Ganguli**. 2017. The evolution of research at Tribal colleges and universities. *Tribal College Journal* 29:38-41.
- Russell*, M.L., L.T. Vermeire, **A.C. Ganguli**, and J.R. Hendrickson. 2017. Phenology of perennial native grass below-ground axillary buds in the northern mixed-grass prairie. *American Journal of Botany*. <https://doi.org/10.3732/ajb.1700132>

- Herrick, J. E., J. Karl, S. McCord, M. Buenemann, C. Riginos, E. Courtright, J. Van Zee, **A.C. Ganguli**, J. Angerer, J. Brown, D. Kimiti*, R. Saltzman, A. Beh, B. Bestelmeyer. 2017. Mobile apps for rangeland inventory and monitoring by landowners and land managers. *Rangelands* 39:46-55. <https://doi.org/10.1016/j.rala.2016.12.003>
- Ganguli, A.C.**, D.M. Engle, P.M. Mayer, and C.S. Salo. 2016. Influence of resource availability on *Juniperus virginiana* expansion in a forest-prairie ecotone. *Ecosphere* 7:e01433. <https://doi.org/10.1002/ecs2.1433>
- Jeffrey E. Ott, R.D. Cox, N.L. Shaw, B.A. Newingham, **A.C. Ganguli**, M. Pellant, B.A. Roundy, and D.L. Eggett. 2016. Post-fire seeding of Great Basin native plants using conventional and minimum-till rangeland drills. *Rangeland Ecology and Management*. 69:373-385. <https://doi.org/10.1016/j.rama.2016.05.001>
- Russell*, M.L., L.T. Vermeire, **A.C. Ganguli**, and J.R. Hendrickson. 2015. Season of fire manipulates bud bank dynamics in northern mixed-grass prairie. *Plant Ecology* 216:835-846. <https://doi.org/10.1007/s11258-015-0471-y>
- Gramig, G.G. and **A.C. Ganguli**. 2015. Managing Canada thistle (*Cirsium arvense*) in a constructed grassland with aminopyralid and prescribed fire. *Invasive Plant Science and Management* 8:243-249. <https://doi.org/10.1614/IPSM-D-14-00075.1>
- Viall, E.W., L.F. Gentry, D.G. Hopkins, **A.C. Ganguli**, and P.D. Stahl. 2014. Legacy effects of oil road reclamation on soil biology and plant community composition. *Restoration Ecology* 22:625-632. <https://doi.org/10.1111/rec.12115>
- Solga*, M.J., J.P. Harmon, and **A.C. Ganguli**. 2014. Timing is everything: an overview of phenological changes to plants and their pollinators. *Natural Areas Journal* 34:227-234. <https://doi.org/10.3375/043.034.0213>
- Dufek*, N., L.T. Vermeire, R. Waterman, and **A.C. Ganguli**. 2014. Fire and nitrogen addition increase forage quality of *Aristida purpurea*. *Rangeland Ecology and Management* 67:298-306. <https://doi.org/10.2111/REM-D-13-00057.1>
- Ganguli, A.C.**, and K.L. Launchbaugh. 2013. The evolving role of women as rangeland educators and researchers in Colleges/Universities and in the Society for Range Management. *Rangelands* 35:15-21. <https://doi.org/10.2111/RANGELANDS-D-13-00037.1>
- Strong*, D.J., **A.C. Ganguli**, and L.T. Vermeire. 2013. Fire effects on purple threeawn abundance basal area, tiller production, and survival. *Fire Ecology* 9:89-99. <https://doi.org/10.4996/fireecology.0903089>
- Strong*, D.J., L.T. Vermeire, and **A.C. Ganguli**. 2013. Fire and nitrogen effects on purple threeawn (*Aristida purpurea*) abundance in northern mixed-grass prairie old fields. *Rangeland Ecology and Management* 66:553-560. <https://doi.org/10.2111/REM-D-13-00030.1>
- Newingham, B.A., **A.C. Ganguli**, and B.J. Orr. 2012. Building a teaching technology toolbox for rangeland ecology. *Rangelands* 34:26-33. <https://doi.org/10.2111/1551-501X-34.3.26>
- Ganguli A.C.** and J. Harmon. 2011. An introduction to the special issue on pollinators. *Rangelands* 6:3. <https://doi.org/10.2111/1551-501X-33.3.3>
- Harmon, J., **A.C. Ganguli**, and M. Solga*. 2011. An overview of pollination in rangelands: who, why, and how. *Rangelands* 33:4-8. <https://doi.org/10.2111/1551-501X-33.3.4>
- Ganguli, A.C.**, M.B. Hale, and K.L. Launchbaugh. 2010. Seasonal change in nutrient composition of spotted knapweed and preference by sheep. *Small Ruminant Research* 89:47-50. <https://doi.org/10.1016/j.smallrumres.2009.11.008>

- Ganguli, A.C.**, D.M. Engle, P.M. Mayer, and E.C. Hellgren. 2008. Plant community diversity and composition provide little resistance to *Juniperus* expansion. *Botany* 86:1416-1426. <https://doi.org/10.1139/B08-110>
- Ganguli, A.C.**, D.M. Engle, S.D. Fuhlendorf, and P.M. Mayer. 2008. When are native species inappropriate for conservation planting? *Rangelands* 30:27-32. <https://doi.org/10.2111/1551-501X-30.6.27>
- Horncastle, V.J., E.C. Hellgren, P.M. Mayer, **A.C. Ganguli**, D.M. Engle, and D.M. Leslie, Jr. 2005. Implications of invasion by *Juniperus virginiana* on small mammals in the Southern Great Plains. *Mammalogy* 86:1144-1155. <https://doi.org/10.1644/05-MAMM-A-015R1.1>
- Vermeire, L.T., **A.C. Ganguli**, and R.L. Gillen. 2002. A robust visual obstruction model for estimating standing crop across rangeland regions. *Journal of Range Management* 55:494-497. <http://doi.org/10.2307/4003228>
- Ganguli, A.C.**, L.T. Vermeire, R.B. Mitchell, and M.C. Wallace. 2000. Comparison of four non destructive techniques for estimating standing crop in shortgrass plains. *Agronomy Journal* 92:1211-1215. <https://doi.org/10.2134/agronj2000.9261211x>

Other Publications and Proceedings

- O'Rourke, M., A. Caramanica, J. Dobrowolski, S. Fleischhacker, **A. Ganguli**, L. Haram, L. Kaume, E. Kistner-Thomas, S. LaRose, P. Martin., H. Moshay, N. Nahar, S. Stluka, and A. Wilke. 2022. NIFA climate adaptation and resilience plan. https://www.usda.gov/sites/default/files/documents/6_REE_NIFA_ClimateAdaptationPlan_2022.pdf
- Schallner*, J., **A.C. Ganguli**, M.S. Stovall, and J.E. Herrick. 2020. Measuring land potential and human impacts in rangelands. In: Reference Module in Earth Systems and Environmental Sciences. <https://doi.org/10.1016/B978-0-12-409548-9.12421-2>
- Ganguli, A.C.** and M.J. Kamar. 2019. Land restoration for achieving SDG 5: Achieve gender equality and empower all women and girls. Chapter 3.1 in *Land Restoration for Achieving the Sustainable Development Goals: An International Resource Panel Think Piece*. Herrick, J.E., et al. A think piece of the International Resource Panel. United Nations Environment Programme, Nairobi, Kenya. <https://doi.org/10.18356/799094c6-en>
- Ganguli, A.C.** 2013. *Guide to Texas grasses*, R.B. Shaw. Book Review. *Rangelands* 35:99. <https://doi.org/10.2111/1551-501X-35.6.99>
- Ganguli, A.C.**, J.B. Haufler, C.A. Mehl, and J.D. Chew. 2011. Incorporating historical ecosystem diversity into conservation planning efforts in grass and shrub ecosystems. *Natural Resources and Environmental Issues* Vol 16:171-178. Available at: <https://digitalcommons.usu.edu/nrei/vol16/iss1/23>
- Ganguli, A.C.**, J.B. Haufler, C.A. Mehl, and S.D. Yeats. 2011. Ecological assessments of sagebrush grasslands in eastern Wyoming. *Natural Resources and Environmental Issues* Vol 16:249-257. Available at: <https://digitalcommons.usu.edu/nrei/vol16/iss1/33>
- Haufler, J.B., and **A.C. Ganguli**. 2006. Benefits of Farm Bill grassland conservation practices to wildlife. Pages 64-82 in: *Fish and wildlife response to farm bill conservation practices*. The Wildlife Society, Bethesda, Maryland. Available at: <https://wildlife.org/wp-content/uploads/2014/05/FarmBill07-1.pdf>

Technical Reports

- Shaw, N., B.A. Newingham, **A.C. Ganguli**, A.L. Hild, R.D. Cox, J. Truax, M. Pellant, and D. Pyke. 2011. Equipment and strategies to enhance the post-wildfire establishment and persistence of Great Basin Native Plants. Final Report pp. 29. Joint Fire Science Project Number 07-1-3-12.

Haufler, J.B., C.A. Mehl, **A.C. Ganguli**, and S.D. Yeats. 2008. Ecological assessment of terrestrial ecosystems in Thunder Basin, Wyoming. Ecosystem Management Research Institute Technical Report, pp. 174. Available on-line <http://www.emri.org>.

Ganguli, A.C., S.D. Yeats, C.A. Mehl, and J.B. Haufler. 2007. Description of grassland diversity for the Great Plains of North America. *In: A grassland conservation plan for prairie grouse*. Compiled by W. L. Vodehnal, and J. B. Haufler. North American Grouse Partnership Fruita, CO. pp. A1-A165.

Extension Publications

Sanchez, T., R. Sallenave, **A. Ganguli**, and K. Meiklejohn. 2023. Importance of Weather and Climate Monitoring to Western Landowners and Producers. *Guide X-001*. Las Cruces, NM: NMSU, Cooperative Extension Service. [View Guide X-001 PDF](#) | [View Guide X-001 website](#)

Sanchez, T., R. Sallenave, **A. Ganguli**, and K. Meiklejohn. 2023. Accumulated Growing Degree Days: How to use them to describe and predict grazing readiness for common New Mexico rangeland grasses. *Guide B-826*. Las Cruces, NM: NMSU, Cooperative Extension Service. [View Guide B-826: PDF](#) | [View Guide B-826 website](#)

Sallenave, R.M., and **A.C. Ganguli**. 2021. PLAYA LAKES: Understanding their importance and how to protect them and improve their function. *Guide W-107*. Las Cruces, NM: NMSU, Cooperative Extension Service. [View Guide W-107: PDF](#) | [View Guide W-107 website](#)

Idowu, O.J., R. Ghimire, R.P. Flynn, **A.C. Ganguli**. 2019. Executive Summary: Soil Health-Importance, Assessment, and Management. *Circular 694A*. Las Cruces, NM: NMSU, Cooperative Extension Service. [View Circular 694A extension publication](#) | [View Circular 694A website](#)

Idowu, O.J., R. Ghimire, R.P. Flynn, **A.C. Ganguli**. 2019. Soil Health-Importance, Assessment, and Management. *Circular 694B*. Las Cruces, NM: NMSU, Cooperative Extension Service. [View Circular 694B extension publication PDF](#) | [View Circular 694B website](#)

Sallenave, R., K. Zeigler, and **A. Ganguli**. 2018. Monitoring your well water. New Mexico State University, College of Agricultural, Consumer and Environmental Sciences, Cooperative Extension Service, Guide M-118. [View guide M-118 extension publication](#) | [View M-118 website](#)

Webinar Presentations

The Science of Grasslands (Episode 1) [Grasslands: Culture, Conservation, and Resiliency](#). April 13, 2022. Amy Ganguli, National Program Leader with USDA-NIFA and Terri Schulz, Senior Conservation Ecologist with for the Nature Conservancy. Presented in partnership with Bird Conservancy of the Rockies, the Center for Collaborative Conservation, and the Salazar Center for North American Conservation.

[Transdisciplinary Approaches: What they are and why they're important](#). In this first webinar of the Transdisciplinary series I joined Alison Meadow (U of A), Dan Ferguson (U of A), Doug Steele (President of APLU) to highlight transdisciplinary work, opportunities, challenges, and funding opportunities to advanced stakeholder engaged interdisciplinary work.

Extension/Outreach Presentations

Beyond the Roundtable Series, Corona Range and Livestock Research Center

- “Rangeland plant identification and an introduction to the NMSU Plant Diagnostic Clinic”; 36 attendees; June 30, 2016; SWCRS “Beyond the Roundtable” series.
- “Introduction to range plant identification”; 35 attendees; October 29, 2015; SWCRS “Beyond the Roundtable” series.

- “Rangeland plant physiology and morphology” 63 attendees; June 30, 2015; SWCRS “Beyond the Roundtable” series.
- “Prescribed burning”; 63 attendees; June 30, 2015; SWCRS “Beyond the Roundtable” series.

Other Presentations

- Ganguli, A.C.**, and R. Pope. 2015. Upper Burro Cienega restoration projects. New Mexico Wetlands Roundtable. Las Cruces, New Mexico.
- Ganguli, A.C.** 2014. Prescribed fire and restoration in New Mexico. NM Interagency Roundtable Discussion. Las Cruces, New Mexico.
- Ganguli, A.C.** and B.J. Schutte. 2014. Adaptive sustainable restoration research. New Mexico Wetlands Roundtable. Las Cruces, New Mexico.
- Ganguli, A.C.** 2012. Wildfire, weeds, and seeds: Improving rehabilitation efforts in the Great Basin. NDSU, Ecology and Conservation Sciences luncheon meeting, March 20th, Fargo, North Dakota.
- Ganguli, A.C.** 2011. Abiotic factors associated with Kentucky bluegrass invasion. USFWS Native Prairie Adaptive Management Hand-Off Meeting, November 29th, Jamestown, North Dakota.
- Ganguli, A.C.** 2011. Revitalizing native prairies with prescribed burning. NDSU, Central Grasslands Grass and Beef Review, January 26th, Streeter, North Dakota.
- Ganguli, A.C.** 2010. Trials and tribulations of wildland restoration. NDSU, School of Natural Resource Sciences Seminar, April 28th, Fargo, North Dakota.
- Ganguli, A.C.**, and P.M. Mayer. 2009. Contemporary look at eastern redcedar in the Great Plains: influences on ecosystem services. Environmental Protection Agency, Nonindigenous Species Working Group March - virtual presentation.
- Ganguli, A.C.** 2008. Invasive plants: threats to Montana’s rivers. Montana Fish Wildlife and Parks, Salmon Lake Campfire Talk, Seeley Lake, Montana.
- Ganguli, A.C.** 2007. Cheatgrass: under the radar. November meeting of the Clearwater Resource Council, Seeley Lake, Montana.
- Ganguli, A.C.** 2004. Eastern redcedar encroachment on rangelands: causes, consequences, and the role of conservation. March meeting of the Oklahoma Native Plant Society (northeast section), Tulsa, Oklahoma.
- Ganguli, A.C.** 2003. Developing the formula for enhanced diversity in SRM membership. SRM Professional Issues luncheon, Society for Range Management 56th annual meeting, Casper, Wyoming.
- Ganguli, A.C.** 2002. Eastern redcedar and conservation programs: is there a contradiction? Oklahoma State University Botanical Society, Stillwater, Oklahoma.
- Ganguli, A.C.** 2002. Eastern redcedar: friend or foe? March meeting of the Oklahoma Native Plant Society (central section), Oklahoma City, Oklahoma.

PRESENTATIONS AND ABSTRACTS

Presentations at Scientific Meetings

- Ganguli, A.C.** 2023. Grasslands at a Crossroad: Contemplating the status of Grassland Ecosystem Service. Keynote address at the International Grasslands Congress. Covington, KY. **Invited**
- Ganguli, A.C.** 2023. NIFA Climate Programs. Keynote Speaker Series at the Extension Foundation, Impact Collaborative Summit on Climate Resiliency. **Invited** (virtual presentation)
- Mueller, A., and **A.C. Ganguli**. 2023. Extension-led research for extreme weather disasters. Virtual Presentation. Extension Disaster Education Network. Savannah, GA. **Invited**

- Mueller, A., and **A.C. Ganguli**. 2023. Rapid response to extreme weather funding opportunities. Workshop for building drought resilience in a changing climate with Upper Columbia and Missouri Basin Tribes. **Invited** (virtual presentation)
- Ganguli, A.C.**, and J. Schallner. 2019. Prescribed Fire in New Mexico. Annual Prairie Partners Meeting, El Llano Estacado Resource, Conservation, and Development Council, Tucumcari, NM. **Invited**
- Schallner, J., **A.C. Ganguli**, R. Strait, N. Pietrasiak, 2019. Assessing the use of conservation practices for ecological restoration in the Rio Puerco watershed. Society of Ecological Restoration-Southwest Chapter Annual Conference, Tucson, AZ.
- Ghimire, R., B.R. Khanal, and **A.C. Ganguli**. 2019. Soil organic carbon and nitrogen cycling in semiarid southern High Plains agroecosystems., ASA-CSSA-SSSA International Annual Meetings, ASA-CSSA-SSSA, San Antonio, TX.
- Lehnhoff, E. A., L. Murray, C.A. Sutherland, B.J. Schutte, L.L. Beck, and **A.C. Ganguli**. 2019. Integrating Mechanical or Chemical Control with Biological Control for Improved Saltcedar Management at South-western Reservoirs., Western Society of Weed Science, Denver, CO.
- Stovall, M., N. Pietrasiak, **A.C. Ganguli**, and J. Schallner. 2019. The role of biological soil crusts in the management of the Rio Puerco Watershed. Soils across latitudes. International Soils Meeting, SSSA, San Diego, CA.
- Ganguli, A.C.** 2019. Managing for Agroecosystem resilience in times of drought and climate variability. High efficient water use in agriculture workshop, “Thrivability of arid agriculture under changing environment: Trends and Challenges”. Beijing, China. **Invited**
- Ganguli, A.C.** 2019. Building resilience strategies in times of dwindling water. University Council on Water Resources, Snowbird, UT. **Invited**
- Ganguli, A.C.** 2018. Agroecosystem resilience in times of drought and climate variability. USDA-NIFA Project Directors Meeting, Washington, DC.
- Ganguli, A.C.** 2018. Agroecosystem resilience in times of change. The 63rd Annual New Mexico Water Conference, Las Cruces, NM. **Invited**
- Herrick J.E., B. Bestelmeyer, **A.C. Ganguli**, J. Glover, J. Herrera, J.W. Karl, J.C. Neff, A. Quandt, J. Rizza and S. Snapp. 2018. Landpks: a mobile app for management, extension, and on-farm and on-ranch research. The American Society of Agronomy and Crop Science Society of America Meeting. Baltimore, Maryland.
- Schallner, J.W., **A.C. Ganguli**, R. Strait, and N. Pietrasiak. 2018. Assessing the Impacts of Conservation Practices on Rangeland Health and Ecosystem Services in the Rio Puerco Watershed. Soil and Water Conservation Society 73rd Annual Conference, Albuquerque, New Mexico.
- Stovall, M., N. Pietrasiak, and **A.C. Ganguli**. 2018. Distribution of biological soil crusts and their influence on soil stability in the Rio Puerco Watershed. Soil and Water Conservation Society 73rd Annual Conference, Albuquerque, New Mexico.
- Gannon, M.R., D.W. Bailey, **A.C. Ganguli**, C.W. Knight, and M. Millward. 2018. Relationships between cattle body size and terrain use in extensive and mountainous rangeland pastures. Society for Range Management 71st annual meeting, Sparks, Nevada.
- Herrick, J., B.T. Bestelmeyer, J.R. Brown, E. Courtright, **A.C. Ganguli**, C. Holmes, J.W. Karl, N. Lepak, S. McCord, R. Murph, J. Neff, A. Quandt, and S.W. Salley. 2018. The land potential knowledge system (LANDPKS): mobile apps for soil identification and rangeland inventory and analysis. Society for Range Management 71st annual meeting, Sparks, Nevada.
- Schallner, J.W., **A.C. Ganguli**, R. Strait, and N. Pietrasiak. 2018. Monitoring the impacts of conservation

- practices on ecosystem health in the Rio Puerco Watershed. Society for Range Management 71st annual meeting, Sparks, Nevada.
- Kimiti, D.W., J.E. Herrick, **A.C. Ganguli**, J. Karl, D.W. Bailey, and C. Riginos. 2017. Use of the global land-potential knowledge system for planning and evaluation of rangeland restoration projects. Society for Range Management 70th annual meeting, St. George, Utah.
- Meyers, M.E., **A.C. Ganguli**, and S. Carleton. 2017. Fire behavior and fire effects of habitat management burns in shinnery oak communities. Society for Range Management 70th annual meeting, St. George, Utah.
- Schallner, J.W., **A.C. Ganguli**, N. Pietrasiak, and K.R. Young. 2017. Effects of conservation practices on ecosystem health in the Rio Puerco Watershed. Society for Range Management 70th annual meeting, St. George, Utah.
- Stovall, M., N. Pietrasiak, **A.C. Ganguli**, and J. Schallner. 2017. Biological soil crust communities in conjunction with soil stability in the Rio Puerco Watershed. Annual meeting of the Phycological Society of America, Monterey Bay, California.
- Ganguli, A.C.**, and J. Page. 2016. Effectiveness monitoring of NRDA restoration projects. 6th Natural History of the Gila Symposium. Silver City, NM.
- Ganguli, A.C.**, and K. Sedivec. 2016. Fire behavior and cool season invasive grasses. Dakota Zone Biological Training Workshop, Jamestown, ND. **Invited**
- Page, J.L., **A.C. Ganguli**, and B.J. Schutte. 2016. Just add water: Seedling establishment facilitation using biodegradable watering vessels. Society for Range Management 69th annual meeting, Corpus Christi, Texas.
- Riley, E., **A.C. Ganguli**, and M. Meyers. 2015. Improving research infrastructure at Tribal Colleges and Universities: opportunities and pitfalls. First American Land Grant Consortium (FALCON), American Indian Higher Education Consortium, Denver, CO.
- Adson, K., E. Riley, and **A.C. Ganguli**. 2015. Traditional ecological knowledge of plants to different tribal communities. TCUP/1994 Research Symposium, NSF & USDA-NIFA, Washington, DC. Also presented at the First American Land Grant Consortium (FALCON), American Indian Higher Education Consortium, Denver, CO.
- Apache, N., E. Riley, and **A.C. Ganguli**. 2015. Three important plants to the Navajo Community. TCUP/1994 Research Symposium, NSF & USDA-NIFA, Washington, DC. Also presented at the First American Land Grant Consortium (FALCON), American Indian Higher Education Consortium, Denver, CO.
- Epaloose, K., E. Riley, **A.C. Ganguli**. 2015. Important plants to the Zuni tribe and their uses. TCUP/1994 Research Symposium, NSF & USDA-NIFA, Washington, DC. Also presented at the First American Land Grant Consortium (FALCON), American Indian Higher Education Consortium, Denver, CO.
- Ganguli, A.C.** and R. Pope. 2015. Upper Burro Cienega restoration projects, New Mexico Wetlands Roundtable, Las Cruces, NM. **Invited**
- Meyers, M., **A.C. Ganguli**, and E. Riley. 2015. Cultural standpoints of tribal sensitivity regarding medicinal plants. First American Land Grant Consortium (FALCON), American Indian Higher Education Consortium, Denver, CO.
- Riley, E. **A.C. Ganguli**. 2015. Building Research Capacity. First American Land Grant Consortium (FALCON), American Indian Higher Education Consortium, Denver, CO. **Invited**
- Riley, E., and **A.C. Ganguli**. 2015. Best practices for conducting research at Tribal Colleges. TCUP/1994 Research Symposium, NSF & USDA-NIFA, Washington, DC. **Invited**.

- Wasuli, S., Riley, E., and **A.C. Ganguli**. 2015. Important plants to the Native community of Noatak, Alaska. First American Land Grant Consortium (FALCON), American Indian Higher Education Consortium, Denver, CO.
- Stacey, K., E. Riley, and **Ganguli**. 2015. "Three native plants used by the Shoshone-Bannock Tribe. First American Land Grant Consortium (FALCON), American Indian Higher Education Consortium, Denver, CO, First American Land Grant Consortium (FALCON), American Indian Higher Education Consortium, Denver, CO.
- Ganguli A.C.** 2014. Issues and opportunities with prescribed fire. NM Section of the Society for Range Management annual meeting, Truth or Consequences, New Mexico. **Invited**.
- Ganguli, A.C.**, K. Sedivec, D. Whitted, J. Bennington, and K. Belland. 2014. Evaluating the effects of different timings of prescribed fire on rangeland invaded with Kentucky bluegrass in east-central, N.D. Cool-season Invasive Grasses of the Northern Great Plains Workshop. Fargo, North Dakota.
- Bockness, S., **A.C. Ganguli**, J. Alexander, and G. Horton Jr. 2014. Monitoring the long-term treatment efficacy of saltcedar (*Tamarix* spp) and Russian Olive (*Eleagnus angustifolia*). Society for Range Management 67th annual meeting, Orlando, Florida.
- Newingham, B.A., **A.C. Ganguli**, J.E. Ott, and N.L. Shaw. 2014. Linking soil erosion and plant recovery under different post-fire seeding techniques in Wyoming big sagebrush communities. Society for Ecological Restoration Northwest and Great Basin Chapter Meeting. Redmond, Oregon. **Invited**
- Newingham, B.A., **A.C. Ganguli**, J.E. Ott, and N.L. Shaw. 2014. Evaluating effects of post-fire rehabilitation on the sagebrush steppe. Idaho Weed Conference. Boise, Idaho.
- Ganguli, A.C.**, and K.L. Launchbaugh. 2013. Women and range education. Society for Range Management 66th annual meeting, Oklahoma City, Oklahoma. **Invited**
- Ganguli, A.C.**, and B.A. Newingham. 2013. Post-fire seed drilling effects on soil water infiltration in the Great Basin. 5th World Conference on Ecological Restoration. Madison, Wisconsin.
- Newingham, B.A., and **A.C. Ganguli**. 2013. Comparing seed drill effects on post-fire soil erosion in the Great Basin. 5th World Conference on Ecological Restoration. Madison, Wisconsin.
- Newingham, B.A., J.E. Ott, **A.C. Ganguli**, R.D. Cox, and N.L. Shaw. 2013. Collaborative approaches to evaluating post-fire rehabilitation efforts in sagebrush steppe ecosystems of the Great Basin. Great Basin Consortium Conference (The Great Basin: A Landscape Under Fire). Reno, Nevada.
- Dufek, N., L. Vermeire, R. Waterman, and **A. Ganguli**. 2013. Purple threeawn *in vitro* fermentation and gas production response to nitrogen fertilization and fire. Society for Range Management 66th annual meeting, Oklahoma City, Oklahoma.
- Russell, M., L. Vermeire, J. Hendrickson, and **A.C. Ganguli**. 2013. Phenological bud bank development of *Bouteloua gracilis*, *Hesperostipa comata*, and *Pascopyrum smithii* during drought in the northern Great Plains. Society for Range Management 66th annual meeting, Oklahoma City, Oklahoma.
- Russell, M., L. Vermeire, J. Hendrickson, and **A.C. Ganguli**. 2013. Seasonal fluxes of native grass bud banks in response to season and return interval of fire in the northern Great Plains. Society for Range Management 66th annual meeting, Oklahoma City, Oklahoma.
- Strong, D.J., L.T. Vermeire, and **A.C. Ganguli**. 2013. Fire and nitrogen effects on purple threeawn invaded plant communities. Society for Range Management 66th annual meeting, Oklahoma City, Oklahoma.
- Quast, J., S. DeKeyser, **A. Ganguli**, S. Travers, and C. Dixon. 2013. Potential management of Kentucky bluegrass (*Poa pratensis*) to increase native plant diversity in the Northern Great Plains. Society for Range Management 66th annual meeting, Oklahoma City, Oklahoma.
- Dufek, N., L. Vermeire, R. Waterman, and **A. Ganguli**. 2012. Fire and nitrogen fertilization effects on purple threeawn *in vitro* fermentation and gas production. Society for Range Management 65th annual meeting, Spokane, Washington.

- Ganguli, A.C.**, and B.A. Newingham. 2012. Seed drilling effects on soil infiltration properties in the sagebrush steppe after wildfire. Society for Range Management 65th annual meeting, Spokane, Washington.
- Ganguli, A.C.**, B.A. Newingham, and B. Orr. 2012. Innovations in teaching technology. Society for Range Management 65th annual meeting, Spokane, Washington. **Invited**
- Gramig, G.G., and **A.C. Ganguli**. 2012. Managing Canada thistle invasion in constructed grasslands with aminopyralid and fire. Western Society of Weed Science 65th annual meeting, Reno, Nevada.
- Newingham, B.A., and **A.C. Ganguli**. 2012. Evaluating post-fire seeding techniques on soil erosion in the Great Basin. Society for Range Management 65th annual meeting, Spokane, Washington.
- Russell, M., L. Vermeire, J. Hendrickson, and **A. Ganguli**. 2012. Fire season and frequency effects on native grass bud banks in the Northern Great Plains. Society for Range Management 65th annual meeting, Spokane, Washington.
- Shaw, N., R. Cox, M. Pellent, L. St. John, J. Truax, **A. Ganguli**, and A. Hild. 2012. Equipment and strategies to enhance post-wildfire establishment of Great Basin native plants. Society for Range Management 65th annual meeting, Spokane, Washington.
- Solga, M., J. Harmon, and **A. Ganguli**. 2012. Timing is everything: How environmental changes may disrupt the timing of plant-pollinator interactions. Society for Range Management 65th annual meeting, Spokane, Washington.
- Strong, D.J., L.T. Vermeire, and **A.C. Ganguli**. 2012. Fire and nitrogen effects on purple threeawn-invaded plant communities. Society for Range Management 65th annual meeting, Spokane, Washington.
- Newingham, B.A., and **A.C. Ganguli**. 2011. Comparing the effects of post-fire seeding techniques on soil erosion in a dryland system. Association for Fire Ecology Interior West Conference, Snowbird, Utah.
- Newingham, B.A., and **A.C. Ganguli**. 2011. Soil responses to post-fire seeding techniques. VI Intermountain Native Plant Summit, Boise, Idaho.
- Wissinger, B.D., **A.C. Ganguli**, and B.A. Newingham. 2010. Plant nutrient availability following wildfire and different restoration practices in a sagebrush community in northwestern Utah. Ecological Society of America 95th annual meeting, Pittsburg, Pennsylvania.
- Newingham, B.A., **A.C. Ganguli**, and N.L. Shaw. 2009. Comparing the effects of fire and restoration drilling on soil properties in the Great Basin. Great Basin Native Plant Selection and Increase Project meeting. Boise, Idaho.
- Shaw, N.L., R. Cox, **A.C. Ganguli**, B.A. Newingham, L. St. John, D. Ogle, and J. Truax. 2009. Seeding strategies and equipment for re-establishing Wyoming big sagebrush communities. Great Basin Native Plant Selection and Increase Project meeting. Boise, Idaho.
- Ganguli, A.C.**, J.B. Haufler, C.A. Mehl, and J.D. Chew. 2008. Incorporating historical ecosystem diversity into conservation planning efforts in grass and shrub ecosystems. Shrublands: wildlands and wildlife habitat, 15th Annual Wildland Shrub Symposium, Bozeman, Montana.
- Ganguli, A.C.**, J.B. Haufler, C.A. Mehl, and S.D. Yeats. 2008. Ecological assessment of sagebrush grasslands in eastern Wyoming. Shrublands: wildlands and wildlife habitat, 15th Annual Wildland Shrub Symposium, Bozeman, Montana.
- Ganguli, A.C.**, J.B. Haufler, C.A. Mehl, and S.D. Yeats. 2008. Assessing native prairie conditions in the Missouri Coteau of South Dakota. Society for Range Management 61st annual meeting, Louisville, Kentucky.
- Haufler, J.B., C.A. Mehl, **A.C. Ganguli**, and S.D. Yeats. 2008. Implementing prairie and sagebrush ecosystem restoration in Thunder Basin, Wyoming. Society for Range Management 61st annual meeting, Louisville, Kentucky.

- Haufler, J.B., C.A. Mehl, and **A.C. Ganguli**. Using ecological site descriptions to guide restoration of native ecosystems. 2007. Ecological site descriptions as a management tool, Park City, Utah.
- Ganguli, A.C.**, J.B. Haufler, C.A. Mehl, and J.D. Chew. 2007. Modeling historical ecosystem diversity in grasslands using SIMPPLLE. Society for Range Management 60th annual meeting, Reno, Nevada.
- Haufler, J.B., **A.C. Ganguli**, S.D. Yeats, and C.A. Mehl. 2007. Classifying and mapping historical ecosystem diversity of the Great Plains. Society for Range Management 60th annual meeting, Reno, Nevada.
- Haufler, J.B., **A.C. Ganguli**, C.A. Mehl, and S.D. Yeats. 2007. Conservation planning along Montana's Front Range: Are we conserving the right ecosystem conditions? Montana Chapter of the Wildlife Society annual meeting, Bozeman, Montana.
- Ganguli, A.C.**, D.M. Engle, and P.M. Mayer. 2006. Influence of resource availability on *Juniperus virginiana* expansion in a forest-prairie ecotone. Society for Range Management 59th annual meeting, Vancouver, British Columbia.
- Haufler, J.B., C.A. Mehl, **A.C. Ganguli**, and S.D. Yeats. 2006. A collaborative grassland planning effort in Eastern Wyoming. Society for Range Management 59th annual meeting, Vancouver, British Columbia.
- Ganguli, A.C.**, D.M. Engle, and P.M. Mayer. 2003. Limitations to eastern redcedar growth and survival. Society for Range Management 56th annual meeting, Casper, Wyoming.
- Ganguli, A.C.**, D.M. Engle, S.D. Fuhlendorf, and P.M. Mayer. 2002. Conservation programs that promote invasive species. Ecological Society of America 55th annual meeting, Tucson, Arizona.
- Ganguli, A.C.**, D.M. Engle, and S.D. Fuhlendorf. 2002. When does a native species become invasive? Society for Range Management 55th annual meeting, Kansas City, Missouri.
- Ganguli, A.C.**, S.D. Fuhlendorf, D.M. Engle, and T.R. Tunnell. 2001. Tallgrass prairie response to patch burning in Oklahoma. 4th Biennial Symposium on Multivariate Methods in Ecology, Stillwater, Oklahoma.
- Ganguli, A.C.**, D.M. Engle, and S.D. Fuhlendorf. 2001. When conservation programs go bad: eastern redcedar distribution in the United States. Prairie Grouse Technical Council 24th biennial meeting, Woodward, Oklahoma.
- Jones, M.B., **A.C. Ganguli**, K.L. Launchbaugh and M.B. Hale. 2001. Potential forage value of spotted knapweed. The First International Knapweed Symposium of the 21st Century, Coeur d'Alene, Idaho.
- Ganguli, A.C.**, K.L. Launchbaugh and M.B. Hale. 2001. Potential forage value of spotted knapweed: weed or feed? Society for Range Management 54rd annual meeting, Kona, Hawaii.
- Ganguli, A.C.**, and J. Powell. 2001. Electronic communications and The Society for Range Management. Society for Range Manage. 54rd annual meeting, Kona, Hawaii.
- Clark, S.L., **A.C. Ganguli**, J.E. Clark, and D.M. Engle. 2000. Changes in the woody plant community composition and structure as a result of herbicide and fire disturbances of an upland oak forest in Oklahoma. Oklahoma State University Society for Environmental Scientists 3rd annual research reception, Stillwater, Oklahoma.
- Vermeire, L.T., **A.C. Ganguli**, and R.L. Gillen. 2000. Robust visual obstruction models for estimating standing crop across four rangeland regions. Society for Range Management 53rd annual meeting, Boise, Idaho.
- Ganguli, A.C.**, L.T. Vermeire, R.B. Mitchell, and M.C. Wallace. 2000. Evaluation of four non-destructive techniques to estimate biomass on the Southern High Plains. Society for Range Management 53rd annual meeting, Boise, Idaho.
- Ganguli, A.C.**, L.T. Vermeire, R.B. Mitchell, and M.C. Wallace. 1999. Estimating grassland biomass with four non-destructive techniques. Fourth symposium of biological research in the Jemez Mountains, New Mexico.

- Wallace, M.C., R.B. Mitchell, S.M. Fetting, C.D. Allen, S.P. Rupp, J. Davidson, **A.C. Ganguli**, and E. Wolf. 1999. Elk impact modeling on Bandelier: a new synthesis. Fourth Symposium of Biological Research in the Jemez Mountains, New Mexico.
- Ganguli, A.C.**, L.T. Vermeire, R.B. Mitchell, and M.C. Wallace. 1999. Standing crop estimation using four non-destructive techniques on native rangeland. Texas Chapter of the Society for Range Management 50th annual meeting, Stephenville, Texas.
- Ganguli, A.C.**, R.B. Mitchell, M.C. Wallace and L.T. Vermeire. 1999. Can grassland biomass be indirectly predicted through light attenuation? Fifth International Symposium on the Nutrition of Herbivores, San Antonio, Texas.
- Wallace, M.C., R.B. Mitchell, L.T. Vermeire, S.P. Rupp, and **A.C. Ganguli**. 1998. A conceptual model for synthesizing elk impact studies on Bandelier National Monument. 3rd Symposium of Biological Research in the Jemez Mountains, New Mexico.
- Ganguli, A.C.**, M.C. Wallace, and R.B. Mitchell. 1998. Quantification of behavior, grazing and trampling by elk (*Cervus elaphus*) on Bandelier National Monument, New Mexico. Third Symposium of Biological Research in the Jemez Mountains, New Mexico.

Invited Seminars

- Ganguli, A.C.** 2018. Using land potential and legacy effects to guide conservation practices on New Mexico rangelands. University of Arizona, School of Natural Resources and the Environment
- Ganguli, A.C.** 2017. Changing resources, pastoral livelihoods, and ecosystem services on China's rangelands. NMSU Range Science Seminar. Las Cruces, New Mexico.
- Newingham, B.A., and **A.C. Ganguli**. 2014. Uncovering the effects of post-fire rehabilitation on soil properties. University of Idaho Soil and Water Science Seminar. Moscow, Idaho.
- Ganguli, A.C.** 2009. Career development opportunities in range management. Oklahoma State University Range Club, September 29th meeting, Stillwater, Oklahoma.
- Ganguli, A.C.** 2012. My journey down the path of FIRE. NDSU, Faculty In Residence Education luncheon meeting, March 7th, Fargo, North Dakota.
- Ganguli, A.C.** 2011. Fire, devastating force or rejuvenating tool? NDSU, Department of Biological Sciences Seminar Series, December 2nd, Fargo, North Dakota.
- Ganguli, A.C.**, and J.B. Haufler. 2006. Wildlife and biodiversity responses to grassland conservation practices. Grazinglands Conservation Effects Assessment Program (hosted by USDA/NRCS and ARS), Beltsville, Maryland.

TEACHING ACTIVITIES

New Mexico State University

- Introduction to the Range Profession (1 credit, 4 semesters)
- Introduction to Range Science (3 credits, 1 semester)
- Rangeland Plants (3 credits, 12 semesters)
- Restoration Ecology (3 credits, 2 semesters)
- Grass Taxonomy (3 credits, 9 semesters)
- Advanced Grass Taxonomy (3 credits, 4 semesters)
- Ecological Site Theory and Development (3 credits, 1 semester)

North Dakota State University

- Introduction to the Range Management (3 credits; 1 semesters)
- Range Habitat Management (3 credits; 1 semester)

Advanced Range Habitat Management (1 semester)

Grazing Ecology (3 credits; 2 semesters)

GRADUATE STUDENT MENTORING AND POSTDOCTORAL SCHOLARS

New Mexico State University

Advisory Committees Chaired by Ganguli

M.S.

Taylor Sanchez	2020 – 2021
Michael Meyers	2016 - 2021
Jeremy Schallner	2016 - 2019
Megan Stoval, co-Chair with Nicole Pietrasiak	2017 - 2018

Ph.D.

David Kimiti	2012 – 2017
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Postdoctoral Scholars

Lysandra Pyle	2020 - 2021
Pradip Saud	2019 - 2020

North Dakota State University

Advisory Committees Chaired by Ganguli

Ph.D.

Morgan Russell	2011 - 2013
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M.S.

Nick Dufek	2011 - 2013
Dustin Strong	2010 - 2012
Michelle Solga, co-Chair with Jason Harmon	2010 - 2012

OTHER STUDENT MENTORING ACTIVITIES

Director of the Natural Resource Career Development Program, a program that places students from underrepresented backgrounds in 3rd party internships with the USDA-NRCS

2017 - 2021

NMSU Range Club – Advisor

2013 - 2018

NDSU Faculty Resident (Residence Life FIRE program)

2010 - 2012

NDSU Range Club - Advisor

2010 - 2012

Advisor of the Oklahoma State University Range Club

2002 - 2005

AWARDS/HONORS

USDA NIFA's Team Award for the rapid response to extreme weather across food and agricultural systems

2023

USDA Under Secretary's Award for advancing intersectional work in climate change and nutrition security as part of the Food and Nutrition Security Leadership Team

2022

Distinguished early/mid-career Teaching Award (NMSU)

2020

Outstanding Aggie Researcher Award (New Mexico State University)

2019

Range Science Education Council- Early Career Undergraduate Teaching Award

2016

New Mexico State Parks Partnership Award (shared award with Brian Schutte and David Thompson)

2015

Gamma Sigma Delta Honor Society – Inducted as a Member	2013
Gold EXCEL Award for General Journal Excellence (Association Media and Publishing) – This award was given to the <i>Rangelands</i> Journal. I contributed by serving as the guest co-editor of one of the three issues submitted in support of this award.	2012
Faculty Member of the Year 2011-2012 (NDSU, Residence Life)	2012
Program of the Year, “Grow it Forward” (NDSU, Residence Life)	2012
Outstanding Young Range Professional Award (Society for Range Management)	2010
Service Recognition (Oklahoma State University Range Club)	2004
Plant and Soil Sciences Graduate Scholarship Award	2004
Trail Boss Award (Oklahoma Section of the Society for Range Management)	2003
Wild Women of Range Special Recognition (Society for Range Management)	2003
Oliver and Bessie Brensing Memorial Graduate Scholarship Award	2003
Nancy Randolph Davis Scholarship Award	2002 - 2003
Plant and Soil Sciences Graduate Scholarship Award	2002 - 2003
Student Paper Competition (Texas Society for Range Management) <i>runner up</i>	1999

MEMBERSHIP AND COMMITTEE RESPONSIBILITIES IN PROFESSIONAL AND HONORARY SOCIETIES

The Society for Range Management (*president appointed position)

Diversity and Inclusion Task Force co-Chair*	2016 – 2020
Member of Awards Committee*	2010 – 2013
Member of the Executive Vice President Search Committee*	2007 – 2008
Chair of the Nominations Committee*	2007 – 2008
Member of the Nominations Committee	2005 – 2007*, 2009-2010*
Co-chair of the Graduate Student Competition Committee	2007 – 2014
Chair of the Web Task Force*	2003 – 2004
Chair of the Information and Education Committee (I&E)*	2002 – 2003
Member of the I&E Committee	2000 – 2002

Range Science Education Council

President	2018 – 2019
Vice President	2017 – 2018
Secretary	2016 – 2017
Representative for NMSU	2015 – 2021

Northern Great Plains Section of the Society for Range Management

Webmaster	2010 – 2012
Annual Meeting Planning Committee for the 2011 meeting in MT	2010 – 2011

International Mountain Section of the Society for Range Management

Director	2007 – 2008
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Oklahoma Section of the Society for Range Management

Co-chair of the Student Affairs Committee	2003
Member of the Election Committee	2001
Chair of the I&E Committee	2000 – 2003

COMMITTEE RESPONSIBILITIES (NIFA, DEPARTMENT, COLLEGE, AND UNIVERSITY)**University of Arizona**

Extension Disaster Education Network Delegate	2025-
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National Institute of Food and Agriculture

New Employee Orientation- NPL Representative	2024
Global Research Alliance on Agricultural Greenhouse Gases, Livestock Research Group Co-lead	2023 – 2025
Grants Modernization Initiative Subject Matter Expert and Change Champion	2023 – 2025
NIFA Liaison to Utah State University	2022 – 2025
Plant Conservation Alliance Agency Representative	2021 – 2025
Climate Change Theme Team	2022 – 2025
Climate Change NPL Search Committee	2023
Agricultural Microbiome NPL Search Committee	2022

New Mexico State University

Dean's Faculty Advisory Committee	2017 - 2018
ACES College Sustainability Task Force	2016 - 2017
College of Agricultural, Consumer, and Environmental Sciences Diversity Task Force	2015 - 2016
Chihuahuan Desert Rangeland Research Center Steering Committee	2014 - 2021
Range Science Program Review Committee	2013
Range Science Curriculum Committee (current Chair)	2012 - 2021
Teaching Academy Member	2012 - 2021
Search Committees	
Fish, Wildlife, and Conservation Ecology (Department Head) - Member	2018 - 2019
Rangeland Ecology (Extension Specialist) - Member	2017 - 2018
Rangeland Ecology (Faculty) - Member	2016 - 2017
Herbarium Curator (Faculty) - Chair	2016
Rangeland Brush/Weed (Extension Specialist) - Member	2015
Watershed Science (Faculty) - Member	2014 - 2015

North Dakota State University

Department of Residence Life, Faculty Resident Search Committee	2012
Curriculum Committee	2010 - 2012
Soils Faculty Search Committee	2010 - 2012
Space Committee	2011-2012
Range Science Curriculum Committee	2010 - 2012
Range Science Awards Committee	2010 - 2012
Academic Roadmap Committee - Range Program Representative	2011
Agriculture and Biology Subject Librarian Search Committee	2011

PROFESSIONAL SERVICE**Proposal Reviews**

Foundation for Food and Agriculture Review Panel	2024
New Mexico Department of Healthy Soil Review Panel	2021
USDA-NIFA Review Panels (reviewed 12-15 proposals/panel)	2011, 2013, 2014, 2015, 2016

Editorial Responsibilities

co-guest Editor of the award-winning June 2011 issue of <i>Rangelands</i>	
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Other Professional Service

Ecological Site Descriptions as a management tool meeting in Park City, Utah <i>participated as an ecological site description expert during breakout session</i>	2007
Interagency Ecological Site Description Manual Advisory Group - Member	2007