

## Amy C. Ganguli

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### EDUCATION AND TRAINING

Oklahoma State University	Range Ecology (Degree Title: Crop Science) Dissertation Advisor: D. Engle	Ph.D. 2005
Texas Tech University	Range Science Thesis Advisors: R. Mitchell & M. Wallace	M.S. 1999
University of Rhode Island	Wildlife Biology & Management	B.S. 1997

### EMPLOYMENT

Associate Professor of Range Science New Mexico State University, Las Cruces, NM	2017 - present
Assistant Professor of Range Science New Mexico State University, Las Cruces, NM	2012 - 2017
Assistant Professor of Range Science North Dakota State University, Fargo, ND	2009 - 2012
Research Ecologist (post-doc) USDA Forest Service, Rocky Mountain Research Station, Boise, ID	2008 - 2009
Ecosystem/Rangeland Ecologist Ecosystem Management Research Institute, Seeley Lake, MT	2005 - 2008
Graduate Research and Teaching Assistant Department of Plant and Soil Sciences, Oklahoma State University, Stillwater, OK	2000 - 2005
Research Associate Department of Rangeland Ecology and Management, University of Idaho, Moscow, ID	2000
Graduate Research Assistant Department of Range, Wildlife, and Fisheries Management, Texas Tech University, Lubbock, TX	1998 - 1999

### OTHER APPOINTMENTS

Adjunct Faculty (North Dakota State University)	2012 - 2013
Adjunct Faculty (Dickinson State University)	2010 - 2013
Affiliate Faculty (University of Idaho)	2009 - 2011
Adjunct Professor (University of Manitoba)	2006 – 2009

### FUNDING

*(received ~\$2,670,000 over the last five years, ~\$2,090,000 as the primary investigator, and \$45,000 donated to the NMSU foundation in support of my work)*

- 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 Natural Resource Career Development Program. 2018-2020. USDA, Natural Resources Conservation Service. \$175,000
- 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 Natural Resource Career Development (Pathways) and Student Liaison Program. 2016-2018. USDA, Natural Resources Conservation Service. \$150,000.
- 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\*.
- 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	\$40,000	from 2016-2018
Land Life Company	\$5,000	from 2016-2017

### PUBLICATIONS (\* - graduate student)

- Herrick, J., J. Neff, A. Quandt, S. Salley, J. Maynard, **A. Ganguli**, and B. Bestelmeyer. (*Accepted*). Prioritizing land for investments based on short- and long-term land potential and degradation risk. *Environmental Science and Policy*.
- Russell\*, M., L. Vermeire, **A. Ganguli**, and J. Hendrickson. (*Accepted*). Fire return interval and season of fire alters bud banks. *Rangeland Ecology and Management*.
- 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. 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. doi.org/10.1016/j.jenvman.2018.06.096
- Riley, E.T., N. Vadiee, 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*. doi: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. 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. 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. doi: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. doi: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. doi: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. doi: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. doi: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. doi: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. doi:10.2111/Rangelands-D-13-00037.1
- Ganguli, A.C.** 2013. *Guide to Texas grasses*, R.B. Shaw. Book Review. *Rangelands* 35:99.
- 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. doi: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. doi: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. doi: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. doi: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. doi: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. doi: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. doi: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. doi:/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. Community structure of small mammals: implications of invasion by eastern redcedar (*Juniperus virginiana*) in the Great Plains. *Mammalogy* 86:1144-1155. 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.
- 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. doi.org/10.1672/0277-5212(2006)26[278:EONMFE]2.0.CO;2

## Book Chapters

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.

## Other Publications and Proceedings

**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. Pages 171-178 *in*: Wambold, C.L., S.G. Kitchen, M.R. Frisina, B.F. Sowell, R.B. Keigley, P.K. Palacios, and J.A. Robinson, comps. Proceedings – Shrublands: Wildlands and Wildlife Habitats; 2008 June 17-19; Bozeman, Mt. Natural Resources and Environmental Issues, Vol XVI.

**Ganguli, A.C.**, J.B. Haufler, C.A. Mehl, and S.D. Yeats. 2011. Ecological assessments of sagebrush grasslands in eastern Wyoming. Pages 249-257 *in*: Wambold, C.L., S.G. Kitchen, M.R. Frisina, B.F. Sowell, R.B. Keigley, P.K. Palacios, and J.A. Robinson, comps. Proceedings – Shrublands: Wildlands and Wildlife Habitats; 2008 June 17-19; Bozeman, Mt. Natural Resources and Environmental Issues, Vol XVI.

**Ganguli, A.C.**, R.B. Mitchell, M.C. Wallace and L.T. Vermeire. 1999. Can grassland biomass be indirectly predicted through light attenuation? Nutritional Ecology of Herbivores. Posters and Discussion of Plenary Topics and Posters at the Fifth International Symposium on the Nutrition of Herbivores (CD-ROM).

## 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

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, [aces.nmsu.edu/pubs/\\_m/M118.pdf](http://aces.nmsu.edu/pubs/_m/M118.pdf).

## PRESENTATIONS AND ABSTRACTS

### Presentations at Scientific Meetings

**Ganguli, A.C.** 2018. Agroecosystem resilience in times of change. The 63<sup>rd</sup> 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 73<sup>rd</sup> 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 73<sup>rd</sup> 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 71<sup>st</sup> 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 71<sup>st</sup> 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 71<sup>st</sup> 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 70<sup>th</sup> 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 70<sup>th</sup> 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 70<sup>th</sup> 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. 6<sup>th</sup> 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 69<sup>th</sup> 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. 5<sup>th</sup> 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. 5<sup>th</sup> 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.Truxax, **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 95<sup>th</sup> 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, 15<sup>th</sup> 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, 15<sup>th</sup> 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 61<sup>st</sup> 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 61<sup>st</sup> 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 60<sup>th</sup> 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 60<sup>th</sup> 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 59<sup>th</sup> 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 59<sup>th</sup> 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 56<sup>th</sup> 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 55<sup>th</sup> 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 55<sup>th</sup> 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. 4<sup>th</sup> 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 24<sup>th</sup> 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 21<sup>st</sup> 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 54<sup>rd</sup> annual meeting, Kona, Hawaii.
- Ganguli, A.C.**, and J. Powell. 2001. Electronic communications and The Society for Range Management. Society for Range Management. 54<sup>rd</sup> 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 3<sup>rd</sup> 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 53<sup>rd</sup> 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 53<sup>rd</sup> 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. Fettig, 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 50<sup>th</sup> 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. 3<sup>rd</sup> 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 Seminar Series. Tucson, Arizona.
- Ganguli, A.C.** 2017. Changing resources, pastoral livelihoods, and ecosystem services on

- China's rangelands. NMSU Range Science Seminar. Las Cruces, New Mexico.
- 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.
- 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.** 2012. My journey down the path of FIRE. NDSU, Faculty In Residence Education luncheon meeting, March 7<sup>th</sup>, Fargo, North Dakota.
- Ganguli, A.C.** 2012. Wildfire, weeds, and seeds: Improving rehabilitation efforts in the Great Basin. NDSU, Ecology and Conservation Sciences luncheon meeting, March 20<sup>th</sup>, Fargo, North Dakota.
- Ganguli, A.C.** 2011. Fire, devastating force or rejuvenating tool? NDSU, Department of Biological Sciences Seminar Series, December 2<sup>nd</sup>, Fargo, North Dakota.
- Ganguli, A.C.** 2011. Abiotic factors associated with Kentucky bluegrass invasion. USFWS Native Prairie Adaptive Management Hand-Off Meeting, November 29<sup>th</sup>, Jamestown, North Dakota.
- Ganguli, A.C.** 2011. Revitalizing native prairies with prescribed burning. NDSU, Central Grasslands Grass and Beef Review, January 26<sup>th</sup>, Streeter, North Dakota.
- Ganguli, A.C.** 2010. Trials and tribulations of wildland restoration. NDSU, School of Natural Resource Sciences Seminar, April 28<sup>th</sup>, Fargo, North Dakota.
- Ganguli, A.C.** 2009. Career development opportunities in range management. Oklahoma State University Range Club, September 29<sup>th</sup> meeting, Stillwater, Oklahoma.
- 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.**, 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.
- 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 56<sup>th</sup> 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.

## **TEACHING ACTIVITIES**

### **New Mexico State University**

Introduction to the Range Profession (RGSC 150;1 credit; Fall 2017-2018)

Rangeland Plants (RGSC 316; 3 credits; Fall 2012-2016 and 2018, Spring 2013-2015)

Restoration Ecology (RGSC 325; 3 credits; Fall 2015 and 2017)

Grass Taxonomy (RGSC 357; 3 credits Fall 2012 and 2014, Spring 2013-2018)

Advanced Grass Taxonomy (RGSC 557; 3 credits; Spring 2016-2018)

Ecological Site Theory and Development (RGSC 550; 3 credits; Fall 2017)

\* In addition to the above courses, I regularly offer special problems courses and seminars for undergraduate and graduate students.

### **North Dakota State University**

Introduction to the Range Management (RGSC 336; 3 credits; Fall 2010)

Range Habitat Management (RGSC 456; 3 credits; Spring 2011)

Advanced Range Habitat Management (RGSC 656; Spring 2011)

Grazing Ecology (RGSC 456/656; 3 credits; Spring 2010 and 2012)

### **Guest Lectures (since 2009)**

Introduction to Rangeland Management. New Mexico State University, FWCE 110, Introduction to Natural Resources Management (for Dr. Meredith Brown McAteer), October 16, 2018.

Rangeland prescribed fire. New Mexico State University, RGSC 325 Rangeland Restoration (for Dr. Laurie Abbott), October 2, 2014, November 20, 2013.

Fire ecology in rangeland ecosystems. New Mexico State University, RGSC 440 Rangeland Resource Ecology (for Dr. Andres Cibilis), November 30, 2012.

The role of prescribed fire in rangeland management. North Dakota State University, RNG 336 Introduction to Range Management (For Mrs. Brea Paradise), November 2, 2012.

Contemporary use of ecosystem management in rangeland management. North Dakota State University, RNG 662 Rangeland Planning and Analysis (for Dr. Shawn Dekeyser), April 20, 2010.

Allotments, permits, and fees...oh my: grazing issues in public land states. Oklahoma State University, NREM 3613 Principles of Rangeland Management (for Dr. Karen Hickman), September 29, 2009.

Grassland restoration: a review of contemporary techniques. Oklahoma State University, NREM 4023 Restoration Ecology (for Dr. Gail Wilson), September 28, 2009.

### **Oklahoma State University**

SOIL 2124 Fundamentals of Soil Science (T.A. and Lab Coordinator) 2004

SOIL 4563 Dynamics of Wetland, Forest, and Range Soils (T.A.) 2004

RLEM 3913 Principles of Rangeland Management (T.A.) 2002

## **GRADUATE STUDENT MENTORING**

### **New Mexico State University**

Advisory Committees Chaired by Ganguli  
M.S.

Jeremy Schallner	2016 - present
Michael Meyers	2016 - present
Megan Stoval, co-Chair with Nicole Pietrasiak	2017 - 2018
Ph.D.	
Victoria Blumenberg	2018 - present
David Kimiti	2012 - 2017
Other Advisory Committees	
Ph.D.	
Laura Goodman	2012 - 2015
Jane Smith	2014
Mitch Stephenson	2012 - 2014
M.S.	
Brittany Schweiger	2018 - present
Rachel Hosna	2018 - present
Ellie McCann	2018 - present
Allison Salas	2018 - present
Fiona McKibben	2018 - present
Margaret Gannon	2016 - present
Alex Kunkel	2016 - present
Elizabeth Leipold	2016 - 2018
Rachel Burke	2017 - 2018
Leeland Murry	2016 - 2018
Krysten Zummo	2014 - 2018
Jered Korfhage	2016 - 2017
Sabrina Deeley	2015 - 2016
Elyssa Duran (Highlands University)	2013 - 2015
<b>North Dakota State University</b>	
Advisory Committees Chaired by Ganguli	
Ph.D.	
Morgan Russell	2011 - 2013
M.S.	
Nick Dufek	2011 - 2013
Dustin Strong	2010 - 2012
Michelle Solga, co-Chair Jason Harmon	2010 - 2012
Other Advisory Committees	
M.S.	
Erin Burns	2010 - 2012
Jeffery Stackhouse	2010 - 2012
Eric Viall	2009 - 2012
Marianne Schutz (University of Manitoba)	2006 - 2010
<b>OTHER STUDENT MENTORING ACTIVITIES</b>	
Director of the Natural Resource Development Program, a program that places students from underrepresented backgrounds in 3 <sup>rd</sup> party internships with the USDA-NRCS	2017 - present
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
Coach of the Texas Tech University Wildlife Quiz Bowl Team	1999

### **AWARDS/HONORS**

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
NDSU President’s Challenge Coin Recipient	2011
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 – present
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 – present
Vice President	2017 – present
Secretary	2016 – 2017
Representative for NMSU	2015 – present

<b>New Mexico Section of the Society for Range Management</b>	
Member	2012 – present
<b>Northern Great Plains Section of the Society for Range Management</b>	
Webmaster	2010 – 2012
Annual Meeting Planning Committee for the 2011 meeting in MT	2010 – 2011
Member	2009 – 2012
<b>International Mountain Section of the Society for Range Management</b>	
Director	2007 – 2008
Member	2005 – 2008
<b>Oklahoma Section of the Society for Range Management</b>	
Co-chair of the Student Affairs Committee	2003
Member of the Election Committee	2001
Chair of the I&E Committee	2000 – 2003
Member	2000 – 2005
<b>Texas Section of the Society for Range Management</b>	
Member	1998 – 1999
<b>Other</b>	
American Geophysical Union	
Gamma Sigma Delta Honor Society (member)	2013 - present
International Association of Wildland Fire (member)	2011 - 2013
Society for Ecological Restoration (member)	2009 - 2014
Ecological Society of America (member)	2001 - present
The Wildlife Society (member)	1997 - 2003
<b>COMMITTEE RESPONSIBILITIES (DEPARTMENT, COLLEGE, AND UNIVERSITY)</b>	
<b>New Mexico State University</b>	
Dean's Faculty Advisory Committee	2017 - present
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 - present
Range Science Program Review Committee	2013
Range Science Curriculum Committee (current Chair)	2012 - present
Teaching Academy Member	2012 – present
Search Committees	
Fish, Wildlife, and Conservation Ecology (Department Head) - Member	2018 - present
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
<b>North Dakota State University</b>	
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

USDA-NIFA Review Panels (reviewed ~15 proposals/panel)	2011, 2013, 2014, 2015, 2016
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### Editorial Responsibilities

co-guest Editor of the June 2011 issue of *Rangelands*

### Manuscript Reviews

Restoration Ecology, Ecosphere. American Midland Naturalist, Canadian Field Naturalist, Ecosystems, Experimental and Environmental Biology, HortScience, Plant Ecology, North Dakota State University Experiment Station, Rangelands, Rangeland Ecology and Management, Restoration Ecology

### Other Professional Service

Oral Presentation Session. Chair/Moderator. Sustainable Rangelands Symposium, 3 <sup>rd</sup> annual meeting, Lubbock, Texas. June 7-8	2018
Inventory Monitoring, and Assessment Session. Chair/Moderator. Society for Range Management, 71 <sup>st</sup> annual meeting, Sparks, NV, January 28 – February 2	2018
Wetland and Riparian Monitoring Session & Disturbance and Ecosystem Restoration Session. Chair/Moderator. Natural History of the Gila Symposium, Silver City, New Mexico, February 25-26	2016
Grazing Ecology and Management Technical Session. Chair/Moderator. Society for Range Management, 67 <sup>nd</sup> annual meeting, Orlando, FL, February 8-13	2014
Vegetation Management and Restoration Technical Session. Chair/Moderator. Society for Range Management, 67 <sup>nd</sup> annual meeting, Orlando, FL, February 8-13	2014
Wildlife II Technical Session. Chair/Moderator. Society for Range Management, 62 <sup>nd</sup> annual meeting, Albuquerque, NM, February 8-13	2009
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
Society for Range Management, Graduate Student Oral and Poster Competition - Judge	2006 - present

### OUTREACH ACTIVITIES (2012-present)

Curator of the NMSU Animal and Range Science Herbarium	2012 - 2016
Member of the NMSU Plant Diagnostic Clinic	2015 - present

### Oral Presentations

"Fire effects in Rangelands"; 20 attendees; April 20, 2018; High Plains Grasslands Alliance Prescribed Fire Workshop.



“Post fire management”; 20 attendees; April 20, 2018; High Plains Grasslands Alliance Prescribed Fire Workshop.

“Range management and nutrition”; 17 attendees; May 16, 2018; Corona Range and Livestock Research Center 2018 U.S. Beef Academy.

“Collaborative opportunities for rangeland research and outreach” 14 attendees; November 11, 2017; High Plains Grasslands Alliance Meeting.

“Rangeland plant identification and an introduction to the NMSU Plant Diagnostic Clinic”; 36 attendees; June 30, 2016; Corona Range and Livestock Research Center Beyond the Roundtable series.

“Introduction to range plant identification”; 35 attendees; October 29, 2015; Corona Range and Livestock Research Center Beyond the Roundtable series.

“Rangeland plant physiology and morphology” 63 attendees; June 30, 2015; Corona Range and Livestock Research Center Beyond the Roundtable series.

“Prescribed burning”; 63 attendees; June 30, 2015; Corona Range and Livestock Research Center “Beyond the Roundtable” series.

“Rangeland fire ecology”; 7 attendees; September 6, 2013; Las Cruces, NM, Agriculture Degree Days program.

#### **Field Tours Led**

Chihuahuan Desert Rangeland Research Center and the Mesilla Valley Bosque State Park; ~24 attendees; Held in association with the “Long-Term Research Program Training Workshop” I hosted at NMSU. July 24, 2014

White Sands National Monument; 17 attendees. Held in association with the annual meeting of the Western Rangelands Partnership I co-hosted at NMSU; March 22, 2015

Chihuahuan Desert Rangeland Research Center; 15 attendees; Held in association with the annual meeting of the Western Rangelands Partnership I co-hosted at NMSU; March 25, 2015

#### **Webinars**

“Fire behavior study and Kentucky bluegrass”; ~25 attendees; April 15, 2014; Native Prairie Adaptive Management Working Group (USFWS).

“Innovative conservation approaches to invasive plant management in the Missouri River Watershed”; ~25 attendees; October 27; Missouri River Watershed Coalition.

“Expand your teaching horizons with Google Earth”; ~40 attendees; November 14, 2012; Range Science Education Council.

Co-hosted 2 educational webinars with Southwestern Indian Polytechnic Institute aimed at Tribal Colleges and Universities. “Using traditional ecological knowledge to define target native plants for restoration”; ~ 45 attendees; Presenter: Dr. Jeremy Pinto; July 7, 2015; and “Tribal College IRB 101: The basics of an institutional review board”; ~ 10 attendees; Presenter: CeCe Cometsevah; November 19, 2015