

CORINNA RIGINOS

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I work to understand and conserve areas of high diversity and intactness through a combination of research, education, and close partnerships with natural resource managers. I have experience in a range of topics, including road ecology; rangeland management, monitoring, and restoration; and impacts of invasive species and climate change on natural systems.

I currently lead a team of six scientists within The Nature Conservancy's Wyoming chapter. As the Director of Science, I ensure that the chapter's strategic directions are based on best practices of conservation design, including ecological and human dimensions. I set the course of our scientific research directions and oversee our team to make sure that all chapter conservation activities are supported by best available science.

EDUCATION

Ph.D. 2008 University of California, Davis: Ecology.
B.S. 2000 Brown University: Environmental Science (*Magna Cum Laude*)

APPOINTMENTS

Director of Science (Wyoming) The Nature Conservancy, Lander, WY	<i>2019-present</i>
Adjunct Associate Professor Department of Zoology and Physiology University of Wyoming, Laramie, WY	<i>2013-present</i>
Conservation Scientist The Nature Conservancy, Lander, WY	<i>2017-2019</i>
Research Associate Utah State University, Department of Wildland Resources	<i>2015- 2016</i>
Research Ecologist, Teton Research Institute Teton Science Schools, Jackson, WY	<i>2013- 2015</i>
Berry Biodiversity Conservation Center Postdoctoral Fellow University of Wyoming, Laramie, WY	<i>2012- 2013</i>
Council on Science and Technology Postdoctoral Fellow Princeton University, Princeton, NJ	<i>2008- 2012</i>
Doctoral Student Ecology Graduate Group, University of California, Davis, CA	<i>2003-2008</i>
Fulbright U.S. Student Scholar University of Stellenbosch, Stellenbosch, South Africa	<i>2000- 2002</i>

FELLOWSHIPS AND AWARDS

- Ecological Society of America Early Career Fellow (honorary award for past and potential future contributions to the field in terms of scholarship, education, and conservation), 2015

- Shapiro Award for Academic Excellence (best dissertation thesis in ecology), UC Davis, 2009
- National Science Foundation Graduate Research Fellowship, 2003
- Graduate Scholars Fellowship, UC Davis, 2003
- Fulbright Fellowship, 2000
- Phi Beta Kappa, Brown University, 2000

MAJOR GRANTS AND CONTRACTS

- Bureau of Land Management: Seed technologies for sagebrush restoration, part II. *PI*. 2022-2025. (\$180,000)
- Office of Surface Mining, Reclamation, and Enforcement: Seed technologies for sagebrush restoration. *PI*. 2021-2023. (\$200,000)
- Bureau of Land Management: Seed technologies for sagebrush restoration, part I. *PI*. 2019-2022. (\$160,000)
- Wyoming Department of Environmental Quality: Seed technologies for sagebrush restoration. *PI*. 2018-2023. (\$428,056)
- Wyoming Department of Transportation: Effectiveness of reduced night-time speed limit in reducing wildlife-vehicle collisions. *PI*. 2016-2019 (\$250,000)
- NSF Population and Community Ecology: Landscape-scale consequences of mutualism disruption: invasive ants threaten a widespread ant-plant mutualism in East Africa. *Co-PI and lead author*. (\$1,200,000)
- National Fish and Wildlife Foundation: Priority areas for reducing Golden eagle-vehicle mortalities. *PI*. 2016-2017 (\$102,000)
- Wyoming Department of Transportation: Traffic thresholds in deer-vehicle collisions. *PI*. 2016-2018 (\$38,000)
- Wyoming Department of Transportation: Planning-support for mitigation of wildlife-vehicle collisions and highway impacts on migration routes in Wyoming. *PI*. 2014-16 (\$27,000)
- NSF Long-term Research in Environmental Biology: KLEE: Scaling up and scaling out at the Kenya Long-term Exclosure Experiment in Laikipia rangelands. *Lead author and Co-PI*. 2013-2018. (\$449,900)
- Livestock-Climate Change CRSP: A cost-effectiveness framework for landscape rehabilitation and carbon sequestration in northern Kenya. *Lead author and Co-PI*. 2010-2012. (\$80,000)
- USAID and Laikipia Wildlife Forum, Kenya: Sub-contract to provide training and support for rangeland monitoring and to develop a database for archiving monitoring data in Laikipia, Kenya. *Project Leader*. 2009-2012. (\$36,000)
- USAID and CARE International: Sub-contract to produce a monitoring manual for the Horn of Africa region. *Project Leader*. 2009-2010. (\$50,000)
- Princeton University Water, Savannas, and Society Initiative: Can simulated cattle migrations facilitate wild herbivores? *Lead author and Co-PI*. 2008-2011. (\$150,000)
- NSF Long-term Research in Environmental Biology: KLEE: Scaling up and scaling out at the Kenya Long-term Exclosure Experiment in Laikipia rangelands. *Co-author and Co-PI*. 2008-2013. (\$499,800)
- NSF International Research Fellowship Program: Can simulated cattle migrations facilitate wild herbivores? *Author and PI*. 2008-2010. (\$25,000)

PEER-REVIEWED PUBLICATIONS

*Indicates papers lead authored by a junior scientist whom I have mentored significantly through the research and writing process.

Kamaru, D.N., T.M. Palmer, **C. Riginos**, A.T. Ford, J. Belnap, R. M. Chira, J.M. Githaiga, B.C. Gituku, B.R. Hays, A.K. Kibugei, C.T. Lamb, N.J. Maiyo, S. Mutisya, M. Ogutu, AIG. Pietrek, B.T. Wildt, and J.R. Goheen. 2024. Disruption of an ant-plant mutualism shapes spatial patterns of lion predation. *Science* 383:433-438.

*Donovan, C., Eshleman, M. and **Riginos, C.** 2024. Potential for delayed seeding and seed enhancement technology to improve sagebrush establishment. *Restoration Ecology* 32:1 e14046

*Baughman, O.W., M. Eshleman, J. Griffen, R. Rios, C. Boyd, O.A. Kildisheva, A. Olsen, M. Cahill, J.D. Kerby, and **C. Riginos**. 2023. Assessment of multiple herbicide protection seed treatments for seed-based restoration of native perennial bunchgrasses and sagebrush across multiple sites and years. In press, *PLoS ONE* 18(3): e0283678.

*Eshleman, M. and **Riginos, C.** 2023. Potential to improve Wyoming big sagebrush establishment with a root enhancement seed technology. *Rangeland Ecology and Management* 88:143-151.

Riginos, C., K. Veblen, E. Thacker, K. Gunnell, and T. Monaco. 2023. Resilience and resistance framework predicts vegetation responses to shrub reduction treatments in the sagebrush ecosystem. *Rangeland Ecology and Management* 86: 35-43.

*Bloom, T.D., D. O'Leary, and **C. Riginos**. 2022. Flowering time advances since the 1970s in a sagebrush steppe community: implications for management and restoration. *Ecological Applications* 32: e2583.

*Hays, B., **C. Riginos**, T.M. Palmer, D. Doak, B. Gituku, N. Maiyo, S. Mutisya, S. Musila, and J. Goheen. 2022. Demographic consequences of mutualism disruption: browsing and big-headed ant invasion drive acacia population declines. *Ecology* 103: e3655.

Wells, H., L. Porensky, K. Veblen, **C. Riginos**, L. Stringer, A. Dougill, M. Namoni, J. Ekadeli, and T.P. Young. 2022. At high stocking rates, cattle do not functionally replace wild herbivores in shaping understory community composition. *Ecological Applications* 32: e2520.

Milligan, P., T. Martin, E. Pringle, **C. Riginos**, G. Mizell, and T.M. Palmer. 2022. A soil-nesting invasive ant disrupts carbon dynamics in saplings of a foundational ant-plant. *Ecological Applications* 110: 359-373.

Riginos, C., E. Fairbank, E. Hansen, J. Kolek, and M.P Huijser. 2022. Reducing speed limit is ineffective for mitigating the effects of roads on ungulates. *Conservation Science and Practice* 2022:e618. DOI: 10.1111/csp2.618

Milligan, P., T. Martin, G. John, **C. Riginos**, J. Goheen, S. Carpenter, and T. Palmer. 2021. Mutualism disruption by an invasive ant reduces carbon fixation for a foundational East African ant-plant. *Ecology Letters*, 24: 1052-1062.

*LaMalfa, E., **C. Riginos**, and K.E. Veblen. 2021. Browsing wildlife and overgrazing each indirectly facilitate sapling recruitment in an East African savanna. *Ecological Applications* 31: e02399

Palmer, T.P., **C. Riginos**, P. Milligan, B. Hays, A. Pietrek, N. Jepkirui, S. Mutisya, B. Gituku, S. Muslia, S. Carpenter, and J. Goheen. 2021. Frenemy at the gate: invasion by *Pheidole megacephala* facilitates a competitively subordinate plant ant in Kenya. *Ecology* 102: e03230

Tchouassi, D.P., B. Torto, R. Sang, **C. Riginos**, C. Brown, and V. Ezenwa. 2021. Large herbivore loss

has complex effects on mosquito ecology and vector-borne disease risk. *Transboundary and Emerging Diseases* 68: 2503-2513.

Charles, G., **C. Riginos**, T.P. Young, K.E. Veblen, and D. Kimuyu. 2021. Unexpected dynamism in an ecosystem engineer: responses of mound-building termites to biotic changes in a Kenyan savanna. *Ecology and Evolution* 11: 7226-7238.

Pietrek, A., J. Goheen, **C. Riginos**, N. Jepkirui, and T.M. Palmer. 2021. Density dependence and the spread of invasive big-headed ants (*Pheidole megacephala*) in an East African savanna. *Oecologia* 195: 667-676.

*Hays, B.R., J.R. Goheen, **C. Riginos**, and T.M. Palmer. 2020. A novel technique for estimating above-ground biomass of small trees. *Journal of Tropical Ecology* 36: 213-219.

Riginos, C., T.A. Monaco, K.E. Veblen, K. Gunnell, E. Thacker, D. Dahlgren, and T. Messmer. 2019. Potential for post-fire recovery of Greater Sage-grouse habitat. *Ecosphere* 10: e02870

Riginos, C., K.E. Veblen, E.T. Thacker, K.L. Gunnell, and T.A. Monaco. 2019. Disturbance type and sagebrush community type affect plant community structure following shrub reduction. *Rangeland Ecology and Management* 72: 619-631.

LaMalfa, E., R.L. Sensenig, D. Kimuyu, **C. Riginos**, T.P. Young and K.E. Veblen. 2019. Tree resprout dynamics following fire depend on herbivory by wild ungulate herbivores. *Journal of Ecology* 107: 2493-2502.

Lautz, L., C. Kelleher, P. Vidon, J. Coffman, **C. Riginos**, and H. Copeland. 2019. Restoring stream ecosystem function with beaver dam analogues: let's not make the same mistake twice. *Hydrological Processes Today* 33: 174-177.

Koerner, S.E., et al. (many authors). 2018. Resolving variation in herbivore effects on plant biodiversity – change in dominance as a global mechanism. *Nature Ecology and Evolution*.
<https://doi.org/10.1038/s41559-018-0696-y>

Odadi, W.O., **C. Riginos**, and D.I. Rubenstein. 2018. Tightly bunched herding improves cattle performance in an African savanna rangeland. *Rangeland Ecology and Management* 71: 481-491.

Young, T.P., L.M. Porensky, **C. Riginos**, K.E. Veblen, Wilfred O. Odadi, Duncan M. Kimuyu, Grace K. Charles, and Hillary S. Young. 2018. Relationships between cattle and biodiversity in multiuse landscape revealed by Kenya Long-Term Exclosure Experiment. *Rangeland Ecology and Management* 71: 281-291.

Riginos, C. L.M. Porensky, K.E. Veblen, and T.P. Young. 2018. Large-mammal herbivory promotes long-term compositional stability in a savanna understory plant community. *Ecological Applications* 28: 323-335.

Riginos, C., M.W. Graham, M.J. Davis, A. Johnson, A. May, K.W. Ryer, and L.E. Hall. 2018. Wildlife warning reflectors and white cloth reduce deer-vehicle collisions and risky behavior. *Wildlife Society Bulletin* 42: 119-130.

Herrick, J.E., J.W. Karl, S.E. McCord, M. Buenemann, **C. Riginos**, E. Courtright, J. Van Zee, A.C. Ganguli, J. Angerer, J.R. Brown, D.W. Kimiti, R. Saltzman, A. Beh, and B. Bestelmeyer. 2017. Two new mobile apps for rangeland inventory and monitoring by landowners and land managers. *Rangelands* 39: 46-55.

- Palmer, T.M., **C. Riginos**, R.E. Damiani, N. Morgan, J.S. Lemboi, J. Lengingiro, J.C. Ruiz-Guajardo, R.M. Pringle. 2017. Influence of neighboring plants on the dynamics of an ant-acacia protective mutualism. *Ecology* 98: 3034-3043.
- Sensenig, R.L., D.K. Kimuyu, J.C.R. Guajardo, K.E. Veblen, **C. Riginos**, and T.P. Young. 2017. Species-specific ant behaviors help explain short-term and long-term shifts in an acacia ant community after fire. *Ecology* 98: 1455-1464.
- Kimuyu, D., K. Veblen, **C. Riginos**, and T.P. Young. 2017. Cattle competition with grazing and browsing wildlife varies with season and presence of megaherbivores. *Ecological Applications* 27: 786- 798.
- Weinstein, S., G. Titcomb, V. Kobata, B. Agwanda, **C. Riginos**, and H. Young. 2017. Mechanism matters: predicting parasite response to defaunation in the African savanna. *Ecology* 98: 1839-1848.
- Odadi, W.O., D.M. Kimuyu, R.L. Sensenig, K.E. Veblen, **C. Riginos**, and T.P. Young. 2017. Fire-induced negative responses of cattle to shared foraging with native ungulates in an African savanna. *Journal of Applied Ecology* 54: 935-944.
- *Kimiti, D.W., **C. Riginos**, and J. Belnap. 2017. Low-cost grass restoration using erosion barriers in a degraded African rangeland. *Restoration Ecology* 25: 376-384.
- Charles, G., L.M. Porensky, **C. Riginos**, K.E. Veblen, and T.P. Young. 2017. Grazing intensity drives herbaceous productivity, but herbivore identity constraints variability in productivity in an African savanna. *Ecological Applications* 27: 143-155.
- Veblen, K.E., L.M. Porensky, **C. Riginos**, and T.P. Young. 2016. Are cattle surrogate wildlife? Savanna plant community composition explained by total herbivory, not herbivore identity. *Ecological Applications* 26: 1610-1623.
- Pringle, R.M., D. Kimuyu, R.L. Sensenig, T.M. Palmer, **C. Riginos**, K.E. Veblen, and T.P. Young. 2015. Synergistic indirect effects of elephants and fire in an African savanna. *Journal of Animal Ecology* 84: 1637-1645.
- Cotterill-Oriol, A., M. Valeix, L.G. Frank, **C. Riginos**, and D.W. Macdonald. 2015. The landscape of coexistence: consequences of fear for large carnivores living in human-dominated areas. *Oikos* 124: 1263-1273.
- Riginos, C.**, M.A. Karande, D.I. Rubenstein, and T.M. Palmer. 2015. Disruption of a protective ant-plant mutualism by an invasive ant increases elephant damage to savanna trees. *Ecology* 96: 654-661.
- Riginos, C.** 2015. Climate and the landscape of fear in an African savanna. *Journal of Animal Ecology* 84: 124-133.
- Kimuyu, D.K., R.L. Sensenig, **C. Riginos**, K.E. Veblen, and T.P. Young. 2014. Native and domestic browsers and grazers reduce fuels, fire temperatures, and acacia-ant mortality in an African savanna. *Ecological Applications* 24: 741-749.
- Porensky, L.M., S.E. Wittman, **C. Riginos**, and T.P. Young. 2013. Herbivory and drought interact to enhance diversity and spatial patterning in a savanna understory. *Oecologia* 173: 591-602.
- Donihue, C.M., L.M. Porensky, J. Foufopoulos, **C. Riginos**, and R.M. Pringle. 2013. Glade cascades: indirect legacy effects of pastoralism enhance the abundance and spatial structuring of arboreal fauna. *Ecology* 94: 827-837.
- Riginos, C.**, L.M. Porensky, K.E. Veblen, W.O. Odadi, R.L. Sensenig, D. Kimuyu, F. Keesing, M.L. Wilkerson, and T.P. Young. 2012. Lessons on the relationship between pastoralism and biodiversity from the Kenya Long-term Exclosure Experiment (KLEE). *Pastoralism* 2:10.

- Herrick, J.E., S. Andrews, G. Baldi, B.T. Bestelmeyer, J. Brown, J. Davies, M. Duniway, K.M. Havstad, D. Peters, J. Quinton, **C. Riginos**, P. Shaver, D. Steinaker, and S. Twomlow. 2012. Revolutionary land use change in the 21st century: is (rangeland) science relevant? *Rangeland Ecology and Management* 65: 590-598.
- Riginos, C.**, J.E. Herrick, S.R. Sundaresan, C. Farley, and J. Belnap. 2011. A simple graphical approach to quantitative monitoring of rangelands. *Rangelands* 133: 6-13.
- Sundaresan, S.R., **C. Riginos**, and E.S. Abelson. 2011. Management and analysis of camera trap data: alternative approaches (response to Harris et al., 2010). *Bulletin of the Ecological Society of America*. April 2011.
- Augustine, D.J., K.E. Veblen, J.R. Goheen, **C. Riginos** & T.P. Young. 2011. Pathways for positive cattle-wildlife interactions in semi-arid rangelands. In *Conserving Wildlife in African Landscapes: Kenya's Ewaso Ecosystem* (N.J. Georgiadis, ed.). Smithsonian Contributions to Zoology Number 632: 55-72.
- Riginos, C.** and J.H. Herrick. 2010. *Monitoring Rangeland Health: A Guide for Pastoralist Communities and Other Land Managers in Eastern Africa, Version II*. Nairobi, Kenya: ELMT-USAID/East Africa.
<http://jornada.nmsu.edu/monit-assess/manuals/StickMethod>
- Treydte, A.C., **C. Riginos**, and F. Jeltsch. 2010. Enhanced use of beneath-canopy vegetation by grazing ungulates in African savannas. *Journal of Arid Environments* 74: 1597-1603.
- Sundaresan, S., and **C. Riginos**. 2010. Lessons learned from biodiversity conservation in the private lands of Laikipia, Kenya. *Great Plains Research* 20: 2-10.
- Goheen, J.R., T. M. Palmer, F. Keesing, **C. Riginos**, and T.P. Young. 2010. Large herbivores facilitate savanna tree establishment via diverse and indirect pathways. *Journal of Animal Ecology* 79: 372-382.
- Riginos, C.**, J.H. Herrick, J. Belnap, S.R. Sundaresan, J.S. Worden, and M.F. Kinnaird. 2009. *Monitoring Rangeland Health: A Guide for Facilitators and Pastoralist Communities, Version I*. Nairobi, Kenya: ELMT-USAID/East Africa.
- Riginos, C.**, J.B. Grace, D.J. Augustine, and T.P. Young. 2009. Local versus landscape-scale effects of savanna trees on grasses. *Journal of Ecology*, 97: 1337-1345.
- Riginos, C.** 2009. Grass competition suppresses savanna tree growth across multiple demographic stages. *Ecology* 90: 335-340.
- Riginos, C.**, and J.B. Grace. 2008. Tree density, wild ungulate habitat use and the herbaceous community in a Kenyan savanna: Top-down versus bottom-up effects. *Ecology* 89: 2228-2238.
- Okello, B.D., T.P. Young, **C. Riginos**, D. Kelly and T. O'Connor. 2008. Short-term survival and long-term mortality of *Acacia drepanolobium* after a controlled burn. *African Journal of Ecology* 46:395-401.
- Riginos, C.**, M.S. Heschel, and J. Schmitt. 2007. Maternal effects of drought stress and inbreeding in *Impatiens capensis* (Balsaminaceae). *American Journal of Botany* 94: 1984-1991.
- Riginos, C.** and T.P. Young. 2007. Positive and negative effects of grasses and wild and domestic herbivores on *Acacia* saplings in an East African savanna. *Oecologia* 153: 985-995.
- Riginos, C.**, S.J. Milton, and T. Wiegand. 2005. Context-dependent interactions between adult shrubs and seedlings in a semi-arid shrubland. *Journal of Vegetation Science* 16: 331-340.
- Heschel, M.S. and **C. Riginos**. 2005. Mechanisms of selection for drought stress tolerance and avoidance in *Impatiens capensis* (Balsaminaceae). *American Journal of Botany* 92: 37-44.

Riginos, C. and M.T. Hoffman. 2003. Changes in population biology of two succulent shrubs along a grazing gradient. *Journal of Applied Ecology* 40: 615-625.

SELECT MEDIA COVERAGE

My work has been featured in dozens of newspaper articles, radio interviews, and television interviews in outlets ranging from local to national. Local media outlet features are too numerous to list. Major national media features include:

The Washington Post: In Kenya, the king of the jungle faces a new challenge – ants. February 4, 2024.
<https://www.washingtonpost.com/world/2024/02/04/invasive-ants-lions-diet-study/>

NPR Science Friday: In Wyoming, a solution to wildlife traffic accidents may be in the bag. 1 June 2018
<https://www.sciencefriday.com/segments/in-wyoming-a-solution-to-wildlife-traffic-accidents-may-be-in-the-bag/>

NPR Here and Now: Scientists work to reduce number of wildlife collisions. 1 June 2018.
<http://www.wbur.org/hereandnow/2018/06/01/scientists-collisions-wildlife-deer>

Science online: Invading ant threatens unique African ecosystem. 8 September, 2014.
<http://news.sciencemag.org/africa/2014/09/invading-ant-threatens-unique-african-ecosystem>

New York Times: Tree-Protecting Ants Can't Protect Themselves. 15 September, 2014.
<http://www.nytimes.com/2014/09/16/science/tree-protecting-ants-cant-protect-themselves.html>

REPORTS

Riginos, C., E. Fairbank, E. Hansen, J. Kolek and M. Huijser. 2019. Effectiveness of night-time speed limit reduction in reducing wildlife-vehicle collisions. Wyoming Department of Transportation, WY-1904F.

Riginos, C., C. Smith, E. Fairbank, E. Hansen, and P. Hallsten. 2018. Traffic thresholds in deer road-crossing behavior. Wyoming Department of Transportation, WY-18/07F.

Riginos, C., B. Bedrosian, and H.E. Copeland. 2017. Priority areas for reducing Golden Eagle vehicle mortalities in Wyoming. Final report to the National Fish and Wildlife Foundation.

Riginos, C., H. Copeland, C. Smith, H. Sawyer, K. Krasnow and T. Hart. 2016. Planning-support for mitigation of wildlife-vehicle collisions and highway impacts on migration routes in Wyoming. FHWA-WY-16/10F.

Riginos, C., M.W. Graham, C.S. Smith, M. Davis, and A. Johnson. 2015. Effects of wildlife warning reflectors (“deer delineators”) on wildlife-vehicle collisions in central Wyoming. FHWA-WY-15/03F.

Riginos, C., and M. Newcomb. 2015. The coming climate: ecological and economic impacts of climate change on Teton County. Charture Institute and Teton Research Institute.

Riginos, C., K. Krasnow, L.E. Hall, M. Graham, S.R. Sundaresan, D. Brimeyer, G. Fralick, and D. Wachob. 2013. Mule deer (*Odocoileus hemionus*) movement and habitat use patterns in relation to roadways in northwest Wyoming. FHWA-WY-13/08F.

Riginos, C., J.E. Herrick and P. Shaver. 2012. Maximizing returns on investments in land management with ecological site information. Research Brief #6, Adapting Livestock Systems to Climate Change – Global Collaborative Research Support Program (USAID).

Riginos, C., J. Belnap, and D. Kimiti. 2012. Cost effectiveness of simple technologies to reduce erosion and promote grass establishment. Research Brief #4, Adapting Livestock Systems to Climate Change – Global Collaborative Research Support Program (USAID).

TEACHING AND MENTORING

- I have mentored numerous junior scientists as employees, graduate students, and interns.
- Fellowship Coordinator, Wyoming Chapter of The Wildlife Society's fellowship program (2014-2015)
- Instructor, ECOL 5620: Conservation and Management of Grazing Systems, University of Wyoming, Fall 2012.
- Instructor, EEB 320: Ecology and Conservation of African Landscapes, Princeton University, Spring semesters 2009-2012.

OUTREACH AND PROFESSIONAL SERVICE

Public education and professional service

- Public presentations too numerous to list. Recent examples include:
 - Wildlife on Tap speaker series – presentation on roads and wildlife in WY. Lander WY, November 2022
 - Lead organizer for panel discussion on how to talk about climate change – Jackson, WY, August 2022
- Board Member At-Large, Wyoming Chapter of The Wildlife Society (2016-2018)
- Regularly review manuscripts for highly-ranked journals and research proposals for various funding entities

Partnership with managers and agencies

- Founding member of the Wyoming Wildlife and Roadways Initiative Implementation Team – a group that has brought together state and federal agencies and conservation organizations to develop a science-based action plan for reducing the impacts of roads on wildlife in Wyoming
- Worked closely with the Wyoming Department of Transportation and Wyoming Game and Fish Department to plan and host the first Wyoming Wildlife and Roadways Summit in 2017. Led all planning and implementation of the second Wyoming Wildlife and Roadways Summit in 2021.
- Authored the guidebook *Monitoring Rangeland Health: A Guide for Pastoralist Communities and Other Land Managers in Eastern Africa* (published by USAID), which presents methods for simple, quantitative monitoring of rangeland health. These monitoring methods now being used around the world, including the United States.
- Led numerous outreach workshops in Kenya and Ethiopia on rangeland monitoring.

OTHER SKILLS AND QUALIFICATIONS

- Leadership training within The Nature Conservancy:
 - Conservation Leadership Training – seven-month program for mid-career professionals
 - Highly Effective Teams – week-long training in project management
- Proficient in a variety of statistical methods including standard experimental analyses, meta-analysis, resource selection functions
- Software skills: R, ArcGIS

- Rangeland assessment (Interpreting Indicators of Rangeland Health), Jornada Experimental Range, November 2009