

Corrine Noël Knapp (Corrie), PhD

Haub School of Environment & Natural Resources

University of Wyoming

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EDUCATION

University of Alaska, IGERT Fellow, PhD in Human Ecology, 2010-2013

University of Colorado, IGERT Fellow, Health and Behavioral Sciences, 2008-2009

Colorado State University, MS in Rangeland Ecology, 2006-2008

University of Colorado, Dual BA in Literature and in Writing (summa cum laude), 1995-1999

ACADEMIC EMPLOYMENT

Assistant Professor (2019-Current)

University of Wyoming, Haub School of Environment & Natural Resources

Supervisor- John Koprowski, jkoprows@uwyo.edu

Assistant Professor & Director of Integrative & Public Land Management MEM Track (2014-2019)

Western Colorado University, School of Environment & Sustainability

Supervisor- John Hausdoerffer, 1-970-943-3450, jhausdoerffer@western.edu

Research Associate (2012-2015)

Alaska Center for Climate Assessment and Policy

Supervisor- Sarah Trainor, 907-474-7878, sarah.trainor@alaska.edu

RESEARCH

Climate change poses a new challenge to how we know, partner and learn about the world. This problem area shapes my work and provides structure for my research directions. I believe that the challenges we face in natural resource management are interdisciplinary, cross-sectoral, and require the participation and contributions of people who have knowledge at different scales from the individual to the global.

PUBLICATIONS IN PREPARATION.

1. Clifford, K., A. Cravens, **C. Knapp**, W. Travis. 2021. Responding to ecological transformation: the shifting constraints on RAD decision-making.

PUBLICATIONS IN PRESS.

3. Shelley Crausbay, B. Chaffin, K. Clifford, A. Cravens, J. Gross, **C. Knapp**, D. Lawrence, D. Magness, A. Miller-Rushing, G. Schuurman, H. Sofaer, and C. Stevens-Rumann. 2021. A science agenda to

support natural resource management decisions in a non-stationary world. *Bioscience*. Accepted August 2021.

2. Clifford, K., A. Cravens and **C. Knapp**. 2021. Ecological transformation and decision-making in natural resource management: A conceptual framework. *Bioscience*. Accepted July 2021.
1. Ahlering, M.A., C. Kazanski, P. Lendrum, P. Borrelli, L. Clark, C. Ellis, K. Gadzia, J. Gelbard, J. Goodwin, J.E. Herrick, E. Kachergis, **C. Knapp**, K. Maczko, E. Porzig, D. Rizzo, S. Spiegel, and C. Wilson. 2021. Pasture to Plate: A Synthesis of Common Ranch-Level Indicators to Assist Ranchers' Adaptive Management and Communicate Sustainability Across the Beef Supply Chain to Companies and Consumers. *Rangeland Ecology & Management*. Accepted August 2021.

PEER REVIEWED PUBLICATIONS.

29. Brown, C. L., S. F. Trainor, **C. N. Knapp** and N. P. Kettle. 2021. Alaskan wild food harvester information needs and climate adaptation strategies. *Ecology and Society* 26 (2):44. [online] URL: <https://www.ecologyandsociety.org/vol26/iss2/art44/>
28. Robin S. Reid, María E Fernández-Giménez, Hailey Wilmer, Tomas Pickering, Karim-Aly S Kassam, Apin Yasin, Lauren M Porensky, Justin D Derner, David Nkedianye, Chantsalkham Jamsranjav, Khishigbayar Jamiyansharav, Tungalag Ulambayar, Elisa Oteros-Rozas, Federica Ravera, Umed Bulbulshoev, Daler S Kaziev, **Corrine N Knapp**. 2021. Using research to support transformative impacts on complex social and environmental problems with pastoral peoples in rangelands. *Frontiers in Sustainable Food Systems* 4:600689. Online at: <https://doi.org/10.3389/fsufs.2020.600689>
27. Bennett, D., **Knapp, C.N.**, R. Knight, and Glenn, E. 2020. The evolution of rangeland trusts as catalysts for community-based conservation in the American West. *Conservation Science & Practice*. Online at: <https://doi.org/10.1111/csp2.257>
26. **Knapp, C.N.**, S.M. McNeeley, T. Even, J.B. Gioia, and T. Beeton. 2020. Climate change, agency decision-making, and the resilience of land-based livelihoods. *Weather, Climate & Society*. 12(4): 711-727. Online at: <https://doi.org/10.1175/WCAS-D-19-0097.1>
25. Nave, J., **C.N. Knapp**, S. McNeeley, and B. Rittenhouse. 2020. Planning for change? Assessing the integration of climate change and land-based livelihoods in Colorado BLM planning documents. *Regional Environmental Change*. 20:20. Online at: <https://doi.org/10.1007/s10113-020-01590-0>
24. **Knapp, C.N.**, R. Reid, M.E. Fernandez-Gimenez, J. Klein and K. Galvin. 2019. Placing transdisciplinarity in context: A review of approaches to connect scholars, society, and action. *Sustainability*. 11(18) 4899. Online at: <https://doi.org/10.3390/su11184899>
23. Courkamp, J., **C.N. Knapp**, and B. Allen. 2019. Immersive co-production to inform ranch management in Gunnison, Colorado, USA. *Rangelands*. August 2019. Online at: <https://doi.org/10.1016/j.rala.2019.05.002>

22. **Knapp, C.N.**, N.L. Fresco, and L. Krutikov. 2017. Managing Alaska's National Parks in an era of uncertainty: An evaluation of scenario planning workshops. *Regional Environmental Change*. 17(5): 1541-1552. Online at: <http://10.0.3.239/s10113-017-1126-4>
21. McNeeley, S.M., Even, T., Gioia, J.B., Knapp, C.N., and T. Beeton. 2017. Expanding vulnerability assessment for public lands: The social complement to ecological approaches. *Climatic Change*. 16: 106-119. Online at: <http://dx.doi.org/10.1016/j.crm.2017.01.005>
20. Cherry, J.E., **Knapp, C.N.**, Trainor, S., Ray, A.J., Tedesche, M. and S. Walker. 2017. Planning for climate change impacts on hydropower in the Far North. *Hydrology and Earth Systems Science*. 21:133-151. Online at: <https://doi.org/10.5194/hess-21-133-2017>
19. Turner, B.L., Esler, K., Bridgewater, P., Tewksbury, J., Sitas, N., Abrahams, B., Chapin, F.S., Chowdhury, R., Christie, P., Diaz, S., Firth, P., **Knapp, C.N.**, Kramer, J., Leemans, R., Palmer, M., Pietri, D., Pittman, J., Sarukhan, J., Shakelton, R., Seidler, R., van Wilgen, B., and Mooney, H. 2016. Socio-Environmental Systems (SES) Research: What have we learned and how can we use this information in future research programs. *Current Opinion in Environmental Sustainability*. 19: 160-168. Online at: <doi:10.1016/j.cosust.2016.04.001>
18. Chapin, F.S., **Knapp, C.N.**, Brinkman, T.J., Bronen, R. and Cochran, P. 2016. Community-empowered adaptation for self-reliance. *Current Opinion in Environmental Sustainability*. 19: 67-75. Online at: <http://dx.doi.org/10.1016/j.cosust.2015.12.008>
17. **Knapp, C.N.**, F.S. Chapin, J. Cochran. 2015. Ranch owner perceptions and planned actions in response to a proposed Endangered Species Act listing. *Rangeland Ecology & Management*. 68: 453-460. Online at: <https://doi.org/10.1016/j.rama.2015.08.003>
16. Biermann, M., Hillmer-Pegram, K., Hum, R., Knapp, C.N. 2015. Approaching a critical turn? A content analysis of the politics of resilience in key bodies of resilience literature *Resilience Journal*. Online at: <http://dx.doi.org/10.1080/21693293.2015.1094170>
15. Chapin III, F.S., **Knapp, C.N.** 2015. Sense of place: A process for identifying and negotiating potentially contested visions of sustainability. *Environmental Science & Policy*. 53(a): 38-46 Online at: <https://doi.org/10.1016/j.envsci.2015.04.012>
14. **Knapp, C.N.** and S. Trainor. 2015. Alaskan stakeholder-defined research needs in the context of climate change. *Polar Geography*. Online at: <http://dx.doi.org/10.1080/1088937X.2014.999844>
13. **Knapp, C.N.**, F.S. Chapin, G. Kofinas, N. Fresco, and C. Carothers. 2014. Parks, people, and change: Long term residents' perceptions of climate change and adaptation in the Denali National Park and Preserve region. *Ecology & Society*. 19(4): 16. Online at: <http://dx.doi.org/10.5751/ES-06906-190416>
12. Moore, M-L., Tjornbo, O., Enfors, E., **Knapp, C.N.**, Norstrom, A., Clarvis, M., Hodbod, J., Baggio, J., Biggs, D., and P. Olsson. 2014. Towards a transdisciplinary analytical framework for understanding social-ecological transformations. *Ecology & Society* 19(4): 54. Online at: <http://dx.doi.org/10.5751/ES-06966-190454>

11. F.S. Chapin, Cochran, P., Huntington, O., **Knapp, C.N.**, Brinkman, T., and Gadamus, L. 2013. Traditional knowledge and wisdom: A framework for understanding and shaping Alaskan social-ecological change In: *Linking Ecology and Ethics for a Changing World: Values, Philosophy and Action* [eds. Rozzi, R., Pickett, S., Palmer, C., Armesto, J., Caldicott, J.] Springer Publishing.
10. **Knapp, C.N.**, and S.F. Trainor. 2013. Adapting science to a warming world. *Global Environmental Change* 23(5): 1296-1306. Online at: <https://doi.org/10.1016/j.gloenvcha.2013.07.007>
9. **Knapp, C. N.**, Cochran, J., Sayre, N. and G. Kofinas. 2013. Putting local knowledge and context to work for Gunnison Sage-grouse conservation. *Wildlife-Human Interactions* 7(2): 195-213. Online at: <https://doi.org/10.26077/sttc-fb95>
8. Kachergis, E., **Knapp, C.N.**, Fernandez-Gimenez, M., Ritten, J.P., Pritchett, J.G., Parsons, J., Hobbs, W. and R. Roath. 2013. Tools for resilience management: Multi-disciplinary development of state-and-transition models for northwest Colorado. *Ecology and Society* 18(4):39. Online at: <http://dx.doi.org/10.5751/ES-05805-180439>
7. **Knapp, C.N.**, M. E. Fernandez-Gimenez, D. D. Briske, B. T. Bestelmeyer, and X. B. Wu. 2011. An assessment of state-and-transition models: Professionals' perceptions following two decades of development and implementation. *Rangeland Ecology and Management* 64(6): 598-606. Online at: <https://doi.org/10.2111/REM-D-10-00188.1>
6. Hale, James, **C.N. Knapp**, and J. Litt. 2011. Environmental aesthetics and healthy lifestyles: Gaining insight through the community gardening experience. *Social Science and Medicine* 72: 1853-1863. Online at: [10.1016/j.socscimed.2011.03.044](https://doi.org/10.1016/j.socscimed.2011.03.044)
5. **Knapp, C.N.**, M. Fernandez-Gimenez, E. Kachergis, and A. Rudeen. 2011. Using participatory workshops to integrate state-and-transition models created with local knowledge and ecological data. *Rangeland Ecology and Management* 64(2): 158-170. Online at: <https://doi.org/10.2111/REM-D-10-00047.1>
4. **Knapp, C.N.**, M. Fernandez-Gimenez, and E. Kachergis. 2010. The role of local knowledge in state-and-transition model development. *Rangelands* December 2010. Online at: <https://doi.org/10.2111/Rangelands-D-10-00083.1>
3. **Knapp, C.N.** & M. Fernandez-Gimenez. 2009. Understanding change: Integrating rancher knowledge into state-and-transition models. *Rangeland Ecology and Management* 62(6): 510-521. Online at: <https://doi.org/10.2111/08-176.1>
2. **Knapp, C.N.** & M. Fernandez-Gimenez. 2009. Knowledge in practice: Exploring Rancher's Ecological Knowledge in NW Colorado. *Rangeland Ecology and Management* 62(6): 500-509. Online at: [10.2111/08-175.1](https://doi.org/10.2111/08-175.1)
1. **Knapp, C.N.** & M. Fernandez-Gimenez. 2008. Knowing the land: A review of local knowledge revealed in ranch memoirs. *Rangeland Ecology and Management* 61(2): 148-155. Online at: <https://doi.org/10.2111/07-088.1>

OTHER PUBLICATIONS & REPORTS.

1. [In Preparation] Knapp, C.N. 2023. Northern Great Plains Region Chapter in National Climate Assessment. US Global Change Research Program. Available at: <https://www.globalchange.gov/nca5>
2. Knapp, C.N. 2019. Sense of Place: Shaping and Responding to Anthromes In the Context of Climate Change. Chapter in *Encyclopedia of the World's Biomes*. Elsevier. Oxford, England.
3. Brown, C.L., **C.N. Knapp**, and Sarah F. Trainor. 2015. Current Coastal Change Projects and Priority Information Needs in Western Alaska. Final Project Report. Fairbanks, AK. Available at: https://accap.uaf.edu/W_AK_LCC_Coastal_Change_Research/WA2014_35.aspx
4. **Knapp, C.N.** 2011. Connected to the Land: Social Resilience and Vulnerability Assessment of Land-Based Livelihoods in the Gunnison Basin, Colorado. The Nature Conservancy. Gunnison Climate Change Working Group, Gunnison, CO, USA.
3. Neely, B., R. Rondeau, J. Sanderson, C. Pague, B. Kuhn, J. Siemers, L. Grunau, J. Robertson, P. McCarthy, J. Barsugli, T. Schulz, and **C.N. Knapp**. Editors. 2011. *Gunnison Basin: Climate change vulnerability assessment for the Gunnison Climate Working Group* The Nature Conservancy, Colorado Natural Heritage Program, Western Water Assessment, University of Colorado, Boulder, and University of Alaska, Fairbanks. Project of the Southwest Climate Change Initiative. Boulder, CO, USA.
4. **Knapp, C.N.** 2010. Uncompahgre Mesas Forest Restoration Project: Collaboration Case Study for the Colorado Forest Restoration Institute. Colorado Forest Restoration Institute: Fort Collins, CO, USA.
5. **Knapp, C.N.** 2010. Woodland Park Healthy Forest Initiative: Collaboration Case Study for the Colorado Forest Restoration Institute. Colorado Forest Restoration Institute: Fort Collins, CO, USA.
6. Clement, J., **Knapp, C.N.** and Keralis, M. 2009. Evidence-based collaboration: Ecological monitoring in Colorado's forests for citizen-scientists. Colorado Forest Restoration Institute for the United States Forest Service. Available at: https://fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5277828.pdf
7. Maczco, K. and L. Hiding (eds). Sustainable rangelands ecosystem goods and services. Sustainable Rangeland Roundtable. Colorado State University: Fort Collins, CO, USA. Available at: http://sustainable.rangelands.org/pdf/Ecosystem_Goods_Services.pdf.

RESEARCH COLLABORATORS.

[Derek Bailey](#), University of New Mexico; [Brandon Bestelmeyer](#), Agricultural Research Service; Maureen Biermann, Pennsylvania State University; [John Brett](#), University of Colorado Denver; [David Briske](#), Texas A&M; [Courtney Carothers](#), University of Alaska Fairbanks; [F.S. \(Terry\) Chapin](#), University of Alaska Fairbanks; Abel Chavez, Western State Colorado University; [Tony Cheng](#), Colorado State University; [Elin Enfors](#), Stockholm Resilience Center; [Mark Fiege](#), Colorado State University; Rachel Garcia, University of Alaska Fairbanks; [Maria Fernandez-Gimenez](#), Colorado State University; [Nancy Fresco](#), University of Alaska Fairbanks; James Hale, University of Colorado; Kevin Hillmer-Pegram, University of Alaska Fairbanks; [Jenny Hodbod](#), Tyndall Center; [Larry Howery](#), University of Arizona; Richard Hum, University of Alaska Fairbanks; [Gary Kofinas](#), University of Alaska Fairbanks; [Jill Litt](#), University of Colorado Denver; [Debbi Main](#), University of Colorado Denver; [Shannon McNeeley](#), North Central Climate Science Center; [Michele-Lee Moore](#), University of Victoria; [Albert Norstrom](#), Stockholm Resilience Center; [Per Olsson](#), Stockholm Resilience Center; [Emily Kachergis](#), Agricultural Research Service; [Robin Reid](#), Center for Collaborative Conservation Colorado State University; Aleta Rudeen, Colorado

State University; [Nathan Sayre](#), University of California Berkeley; [Ola Tjornbo](#), University of Waterloo; [Sarah Trainor](#), Alaska Center for Climate Adaptation Planning; [Larry Torell](#), University of New Mexico; [Ben Wu](#), Texas A&M.

PRACTITIONER COLLABORATORS.

Bruce Allen, Allen Ranches; Retta Bruegger, Colorado State Extension Service; Jim Cochran, Gunnison County; Karin Decker, Colorado Natural Heritage Program; Brandon Diamond, Colorado Parks and Wildlife; Lisa Dilling, Western Water Assessment; Nancy Fresco, Alaska Center for Climate Assessment and Policy; Lee Grunau, Colorado Natural Heritage Program; Sandy & Burt Guerreri, Gunnison Ranchers; Ashley Hom, United States Forest Service; Emily Kachergis, Bureau of Land Management; Windy Kelley, Wyoming Extension; Frank Kugel, Upper Gunnison River Water Conservancy District; Kristi Maczko, Sustainable Rangeland Roundtable; Matt McCombs, United States Forest Service; Shannnon McNeeley, North Central Climate Science Center; Eric McPhail, Colorado State Extension Service; CJ Mucklow, Colorado State Extension Service; Betsy Neeley, The Nature Conservancy; Guinevere Nelson, Colorado State Extension Service; Dan Olsen, National Resources Conservation Service; Robin Reid, Center for Collaborative Conservation; Renee Rondeau, Colorado Natural Heritage Program; Bruce Rittenhouse, Bureau of Land Management; Terri Schultz, The Nature Conservancy; Nathan Seward, Colorado Parks and Wildlife; Sarah Trainor, Alaska Center for Climate Assessment and Policy; Matt Vasquez, United States Forest Service; J. Wenum, Colorado Parks and Wildlife; Liz With, National Resources Conservation Service

EDITORSHIPS.

2018-2020 [Part-time during covid]: Associate Editor, *Rangeland Ecology & Management*.

2019-2020: Associate Editor, *Sustainability*

PROFESSIONAL PRESENTATIONS AND MEETINGS.

35. *Disturbance and climate-driven vegetation type conversion in Western North American landscapes: Perceptions of researchers and natural resource managers towards an emerging ecological concern.* November 2019. Association of Fire Ecology. Poster. Tucson, AZ.
34. *Transforming rangeland science and society: Using collaborative partnerships as a catalyst for change.* August 2019. Ecological Society of America. Presentation. Louisville, KY.
33. *Co-producing actionable climate science and adaptation strategies to inform planning for public lands management.* December 2018. AGU. Poster. Washington, DC.
32. *Managing Resilience of Landscapes and Livelihoods.* April 2018. Department of the Interior. Presentation. Washington, DC.
31. *Soil Health Effects of Supplemental Feeding on Working Rangelands in the Gunnison Valley.* January 2018. Society for Range Management. Poster. Reno, NV.
30. *Managing for Ecosystem and Livelihood Resilience: A Statewide Vulnerability Assessment for BLM Colorado.* January 2018. Society for Range Management. Poster. Reno, NV.

29. *Ranching, Recreation & Resilience: A Cross Scale and Mixed-Methods Vulnerability Assessment.* January 2018. Society for Range Management. Presentation. Reno, NV.
28. *Rooted Cosmopolitanism: Can Sense of Place Scale Up?* November 2017. Future Earth, Programme for Ecosystem Change and Society (PECS). Presentation. Oaxaca, Mexico.
27. *Transformative science for society: The next evolution of transdisciplinary science for sustainability?* November 2017. Future Earth, Programme for Ecosystem Change and Society (PECS). Presentation. Oaxaca, Mexico.
26. *Transformative Science for Society: The Next Evolution for Citizen Science?* May 2017. Citizen Science Conference. Presentation. Minneapolis, MN.
25. *Integrating Socio-Ecological Climate Change Adaptation Strategies in Public Land Management and Decision-Making* May 2017. National Adaptation Conference. Presentation. St. Paul, MN.
24. *Climate change in the BLM: a review of grey literature.* May 2017. National Adaptation Conference. Poster. St. Paul, MN
23. *Integrating social and ecological vulnerability to climate change in Colorado.* May 2017. National Adaptation Conference. Poster. St. Paul, MN.
22. *Adapting management to a warming world: a review of methodological approaches to social vulnerability assessment and a framework for application on public lands.* June 2016. International Symposium on Society and Resource Management. Poster. Houghton, MI.
21. *Landowner perceptions of the Endangered Species Act and the potential for unintended consequences.* February 2015. Society for Range Management Conference. Presentation. Sacramento, CA.
20. *Parks, people and change: Park service and resident's perceptions of climate change and conservation in the Denali region.* May 2014. Resilience 2014 Conference. Presentation. Montpellier, France.
19. *Adapting science to a warming world: What stakeholders in Alaska say about how the process and practices of science should change.* March 2013. National Adaptation Conference. Poster. Denver, CO.
18. *Unintended consequences? : Understanding the interactions between culture, livelihoods, resources and species protection.* March 2013. Society for Applied Anthropology. Presentation. Denver, CO.
17. *Conservation Pulse: Documenting expert knowledge of the Gunnison Sage Grouse for improved conservation.* February 2013. Society for Range Management. Presentation. Oklahoma City, OK.

16. *Collaborative adaptive science for self-reliance: Redefining community-University partnerships.* February 2013. Society for Range Management. Presentation. Oklahoma City, OK.
15. *Local knowledge of environmental change: A case study from Denali National Park.* August 2012. Ecological Society of America. Poster. Portland, OR.
14. *Integrated social-ecological resilience assessments for effective community-based conservation in a changing climate.* July 2012. Society for Conservation Biology. Workshop Coordination and Presentation. Oakland, CA.
13. *Connected to the land: Social resilience and vulnerability assessment of land-based livelihoods in the Gunnison Basin, Colorado.* January 2012. Society for Range Management. Poster. Spokane, WA.
12. *Sharing Knowledge Across Scales for Adaptation Planning in Denali National Park.* November 2011. Exchange of Local Knowledge and Observations in the Arctic Conference (ELOKA). Poster. Boulder, CO.
11. *Redefining Citizen Science: A Catalyst to Broaden the Knowledge Base and Insights for Sustainability in a Rapidly Changing World.* August 2011. Ecological Society of America Conference. Presentation. Austin, TX.
10. *Environmental Aesthetics and Healthy Lifestyles: Gaining Insight Through the Community Gardening Experience.* June 2011. Food and Agriculture Under the Big Sky. Presentation. Missoula, MT.
9. *Environmental History as a Framework to Inform Resilience Theory and Local Decision Making* March 2011. Resilience 2011 Conference. Presentation. Tempe, AZ.
8. *Perceptions of Targeted Grazing In the Desert Southwest.* February 2011. Society for Range Management Conference. Poster. Billings, MT. Awarded "2nd Place".
7. *Evaluation and Integration of Local Knowledge and Ecological Data-driven State-and-transition models.* January 2010. Society for Range Management. Poster. Denver, CO.
6. *Popular Sustainability: A Review of Current Food System Literature.* July 2009. Rural Sociology Conference. Poster. Madison, WI. Awarded "Best Poster"
5. Participant in the Inaugural National Symposium on Food Systems & Sustainability. March 2009. University of California, Davis.
4. *Transcending Definitions, Embodying Sustainability: The Role of Local Knowledge in Sustainable Food Systems* May 2008. SUSCONS Conference. Presentation. Arlon, Belgium.

3. *Knowledge in Practice: Exploring Rancher's Ecological Knowledge in NW Colorado* July 2008. International Grassland & Rangeland Congress. Presentation. Hohhot, China.
2. *Changes on the Land: Integrating Rancher Knowledge into State-and-Transition Models* January 2008. Society for Range Management. Presentation. Louisville, KY.
1. *Knowing the Land: A Review of Local Knowledge Revealed in Ranch Memoirs* June 2007. International Symposia for Society and Resource Management Conference. Presentation. Park City, UT.

PROFESSIONAL MEMBERSHIPS.

- Society for Range Management (member 2006-current)
- Ecological Society of America (member 2010-current)
- The Resilience Alliance (member 2010-current)
- Society for Applied Anthropology (member 2012-current)
- American Society for Adaptation Professionals (member 2012-current)
- Society for Conservation Biology (member 2012-current)

TEACHING

I have taught a wide range of classes (see below) with consistently high evaluations (average 4.8/5 for quality of teacher and 4.6/5 for quality of course with 5 being excellent). I adapt my teaching style to each given course, but I enjoy using a problem- and project-based approach in my classes. I am committed to student learning and therefore challenge students with high expectations and extensive feedback. I also integrate 1-1 conference sessions and adapt based on student desires within my courses. Students describe my classes as interesting, challenging, and creative.

- Adaptive Capacity for Climate Change Resilience (RAP 620)
- Climate Change Response (ENR 4890/5890)
- Climate Change: The Science of Mitigation and Adaptation (ENVS 615)
- Integrative Skills for Environmental Management (ENVS 611)
- Introduction to Environment & Sustainability (ENVS 100)
- Introduction to Environmental Management (ENVS 601)
- MEM Project Planning & Implementation (ENVS 690)
- Multidisciplinary Approaches to Environmental Challenges (ENR 4900/5900)
- National Environmental Policy Act (NEPA) for Environmental Managers (ENVS 623)
- Public Lands Management (ENVS 618)
- Social Science Methods for Environmental Managers (ENVS 620)
- Sustainable Food Systems (HBS 350/650)
- Sustainable Rangeland Management (ENVS 625)
- Transdisciplinarity & Co-Production of Knowledge (ENR 4890/5890)
- *Rangeland Measurements and Monitoring (Teaching Assistant) (FRWS 320)*
- *Introduction to Rangeland Management (Teaching Assistant) (FRWS 300)*

ADVISING

In 2021, I am currently chair of two student MS committees, on committees for three other graduate students, and mentoring six others on climate adaptation related projects (2 graduates, 4 undergraduates). I have advised over twenty interdisciplinary MEM students, with projects as diverse as increasing diversity of public land users to designing community restoration projects for Denver Water and from integrating climate change into BLM management to understanding community desire for alternative transit options in Salida, Colorado.

SERVICE

UNIVERSITY SERVICE.

As a faculty member at University of Wyoming, I have served on the Dean search committee, the graduate program committee for the Haub School, the advisory committee for the Harold Hughes Medical Institute Inclusive Initiative proposal to increase inclusion at the University, and as an Engagement and Outreach Fellow for the Office of Engagement and Outreach. For the Haub School, I have recently launched a Climate Action Pod of graduate and undergraduate students who are being paid to assist with research tasks as well as build their resumes and gain research experience.

PROFESSIONAL SERVICE.

I believe in giving back to the professional community. I have served as an Associate Editor for both *Rangeland Ecology & Management* and *Sustainability*. I have served as a reviewer for journals ranging from *Ecology & Society* to *Trends in Ecology & Evolution*. I currently serve as an advisor for the Land Institute's NSF proposal entitled *Civic Science Research Outcomes through Perennial Agroecology*. I am also a member of six interdisciplinary professional societies, as well as being an active member of the Resilience Alliance Young Scholars group. I am a contributor to "Climate Voices", a member of *Mountain West Climate Service Partnership* and have volunteered to present to organizations ranging from the Gunnison County Cattlewomen to the North Central Climate Science Center. I currently serve as the chapter lead for the Northern Great Plains regional chapter of the National Climate Assessment.

PERSONAL SERVICE.

I value being an active member of my community and have volunteered in ecological monitoring, agricultural non-profits, and for various community organizations. Please see my personal service below. Currently, I serve as a board member for the Laramie Montessori.

Ecology:

- Board Member of Calypso Farm & Ecology Center, 2011-2013
- Sustainable Rangeland Roundtable, 2007-2009
- Off-Highway Vehicle/Invasive Weed Study in Sand Wash Basin, Northwest Colorado, 2006-2008
- Restoration Field Sampling Assistant, 2006-2008
- Rare Plant Monitoring, Denver Botanical Gardens, 2003-2006
- Baseline and Monitor Plan for Larimer County Open Space, Chimney Hollow, Fall 2006
- Osha Monitoring, Medicinal Plant Working Group, 2005

Agriculture:

- Board Member of Mountain Roots, 2017
- Ranch hand, Howe Ranch, Northwest Colorado, May-August 2006
- Urban Gardener, 2001-2005
- Haystack Goat Farm Volunteer, 2003
- Willing Workers on Organic Farms Volunteer, 1999

Other:

- Laramie Montessori Board Member, 2019-2021
- Political Campaigns, 2000, 2004, 2008
- Inner-City Mentor (Whiz Kids), 1993-1995, 1998
- Denver Center for the Performing Arts, Usher, 1994-1995
- Summer Youth Counselor (Neighborhood Church), 1994

GRANTS AND AWARDS

GRANTS AWARDED

- NOAA RISA. Western Water Assessment: Building resilience to compound hazards in the Intermountain West. (2022-2027) \$1.6 million
- Grand Challenges Seed Fund. (2022) Innovative Methods to develop Adaptive Capacity through Transdisciplinarity (IMPACT). Request: \$20,000.
- ARS Collaborative Adaptive Rangeland Management (2020-2022) \$40,000
- Open Access Educational Resources Grant from UW Library (2020-2021) \$2,000
- Office of Outreach and Engagement Faculty Fellowship at UW \$10,000
- BLM Social Vulnerability Assessment Grant (2015-2020) \$101,000
- NPS Scenario Planning Project Grant (2015) \$60,000
- Western Alaska LCC Grant (2013) \$30,000

GRANTS PENDING

NIFA. Using co-production to build adaptive capacity and understand ecosystem service trade-offs in the context of social-ecological transformations. Request: \$536,539

NSF EPSCoR Track I. WY-ACT WY-ACT: Anticipating the Climate-Water Transition and Cascading Challenges to Socio-Environmental Systems in America's Headwaters Request: \$20,096,484

GRANTS SUBMITTED & UNFUNDED

Provost Strategic Innovation Fund. Innovative Methods to develop Adaptive Capacity through Transdisciplinarity (IMPACT). Request: \$97,550. [submitted December 2020: unfunded]

NCAR Innovator's Fund. Co-Designed Scenario Planning on The Wind River Reservation: Can the Process Build Adaptive Capacity? Request: \$400,000 [submitted December 2020: unfunded]

NSF DICES RCN. Network on Digital Technology Request: \$500,000 [submitted November 2020: unfunded]

UCROSS. Parenting in the Anthropocene. Request: Writing Fellowship [submitted March 2020: unfunded]

Wyoming Humanities Council Proposal. Imagining the future of Wyoming: Youth narratives in a time of transition Request: \$33,000 [submitted November 2019: unfunded]

NSF NRT. Transdisciplinary Education for Resilient Rangeland Action Science (2017, 2018, 2019) \$2,999,551
[submitted: unfunded]

NON-ACADEMIC EMPLOYMENT

Ranch Hand (2006) Howe Ranch, Northwest Colorado

Program Coordinator (2005-2006) Denver Urban Gardens, Denver, CO

Administrative and Development Coordinator (2004) Center for Native Ecosystems, Denver, CO

Volunteer Coordinator (2001-2004) Colorado Environmental Coalition, Denver, CO

Read Aloud Coordinator (2000-2001) Denver Public Library, Denver, CO

Public Services Librarian (1999-2000) Fraser, CO

Environmental Educator (1999) Snow Mountain Ranch, Granby, CO

Delaney Farm Co-Manager (1997-1999) Denver Urban Gardens, Aurora, CO

Environmental Educator (1995) Curecanti National Recreation Area, Gunnison, CO

RECOMMENDATIONS

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