

Corrine Noël Knapp

Haub School of Environment & Natural Resources

University of Wyoming

Crane Hall: 143, 1000 E University Ave.

Laramie, WY 82701

303-810-2985; corrie.knapp@uwyo.edu

KEY CONTRIBUTIONS

- **Leadership of interdisciplinary teams.** I have led interdisciplinary teams of 20+ people to create publicly accessible resources (Lead author for the Northern Great Plains chapter of the National Climate Assessment) and generate useable and cutting-edge science (Co-PI on NSF EPSCoR-funded \$20 million dollar grant and Co-PI on NOAA RISA \$4.5 million-dollar grant).
- **Commitment to engaging community partners in research.** This activity is best demonstrated by the [Community Partnership for Self-Reliance and Sustainability](#), that fostered new reciprocal relationships between the University of Alaska, Fairbanks and tribal communities across Alaska, and the [Wyoming Anticipating Climate Transitions Grant](#), that uses a co-production approach to help Wyoming communities anticipate and plan for changing water availability.
- **Commitment to diversity, equity & inclusion.** At the University of Wyoming, I helped to create and Chair the Haub School DEI committee, supported the HHMI effort to create bridges from community colleges to UW, and committed to mentorship of women (5/7 current cohort), Tribal (3/7 current cohort) and international students (1/7 current cohort).
- **Innovation in teaching and training.** At University of Wyoming, I served on the graduate school committee and helped to lead and launch the Environment, Natural Resources & Society MS program in 2021. At Western Colorado University, I co-founded the Master of Environmental Management and directed the Integrative and Public Land Management track, which utilized place-based, problem solving and field intensive approaches.

EDUCATION

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

Dissertation Title: Engaging Local Perspectives for Improved Conservation and Climate Adaptation

Committee: F.S. Chapin, G. Kofinas, C. Carothers and N. Fresco

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

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

Dissertation Title: Knowledge with a Place: Exploring Rancher Knowledge of History and Ecology in the Elkhead Watershed in Northwest Colorado

Committee: M. Fernandez-Gimenez, M. Fiege and R. Roath

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

ACADEMIC EMPLOYMENT

Associate Professor (2023-Current)

University of Wyoming, Haub School of Environment & Natural Resources
Director of the Center for Climate, Water and People
Faculty Affiliate in Program in Ecology (PIE)
Supervisor- John Koprowski, jkoprows@uwyo.edu

Assistant Professor (2019-2023)

University of Wyoming, Haub School of Environment & Natural Resources
Faculty Affiliate in Program in Ecology (PIE)
Supervisor- John Koprowski, jkoprows@uwyo.edu

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

[Tenure was granted in 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

LEADERSHIP

- **Lab Management.** I currently lead a large lab, which includes management and supervision of two Research Scientists, two postdocs, and over eight graduate students. I hire researchers and staff, design and implement professional development opportunities, supervise work, and evaluate performance on a regular basis. I recently was honored with an “Outstanding Graduate Mentor” Award from the University of Wyoming for my work in this area (2024).
- **Integrative and Public Land Management MEM Track Director.** At Western Colorado University, I was responsible for the leadership of the IPLM MEM track, including professional development for students, curricular and co-curricular activities, cohort development, and recruitment.
- **Wyoming Anticipating Climate Transitions Co-PI.** In this role, I administer and manage a large (\$20 million) grant and coordinate inter- and transdisciplinary collaborations within and across the project. I coordinate over 27 faculty members and have hired 5 new faculty positions and 5 new staff positions as part of this project. I direct two of the four research questions, lead the cross interdisciplinary research “nodes”, and lead the co-production process with community stakeholders and water decision-makers.
- **Western Water Assessment Co-PI.** In this role, I am the lead Wyoming researcher on a sizable (\$4.1 million) grant and coordinate all research activities in the state, involving managing graduate students, coordinating with community partners, and engaging affiliated faculty.
- **Leadership for National Climate Assessment.** As the chapter lead for the Northern Great Plains chapter of the National Climate Assessment, I have recruited interdisciplinary experts (20+ collaborators), defined chapter content, led chapter research and writing, facilitated multiple reviews by the public, National Academies of Science, and Federal Agency review.
- **Multiple Service Activities.** I have led departmental committees, led and served on multiple hiring

committees, launched new committees (DEI), designed new support systems (Research Group at Western), and have been asked to provide leadership (editor for several journals, NCA leadership, etc).

TEACHING

I have over nine years of full-time teaching experience, five years at a primarily teaching focused institution, Western State Colorado University, and four years at the University of Wyoming. At Western State Colorado University, I co-founded a new Master of Environmental Management (MEM) Program and was the Director of the Integrative and Public Land Management track. In this position, I taught a wide range of classes (see below) with consistently high evaluations. Our program had a 95% placement rate in environmental careers. At the University of Wyoming, I teach a dual-listed upper-level undergraduate/graduate class (Climate Change Responses) as well as an applied and project-based capstone class for undergraduate (ENR 4900: Environment and Natural Resource Capstone) and graduate students (ENR 5900: Multidisciplinary Approaches to Environmental Challenges). I also teach a place-based and cohort-building skills and tools class for our graduate degree (ENR 5001: Orientation). I adapt my teaching style to each course, but enjoy using a problem- and project-based approach. 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. I receive consistently high evaluations and have completed several teaching trainings at the University of Wyoming.

University of Wyoming Courses

- Climate Change Response (ENR 4890/5890; ENR 4570/5570): Fall 2020, 2021, 2022, 2023, 2024
- Environment and Natural Resources Capstone (ENR 4900): Spring 2020, 2021, 2022
- Multidisciplinary Approaches to Environmental Challenges (ENR 5900): Spring 2020, 2021, 2022
- Orientation to Environment, Natural Resources & Society (ENR 5100): Fall 2021, 2022, 2023, 2024
- Seminar for ENRS (ENRS 5870): Fall 2024
- Transdisciplinarity & Co-Production of Knowledge (ENR 4890/5890): Designed, not yet taught

Western State Colorado University Courses

- Climate Change: The Science of Mitigation and Adaptation (ENVS 615): Spring 2015, 2016, 2017, 2018
- Integrative Skills for Environmental Management (ENVS 611): Fall 2014, 2015, 2016, 2017, 2018
- Introduction to Environment & Sustainability (ENVS 100): Fall 2017
- Introduction to Environmental Management (ENVS 601): Summer 2014, 2015, 2016, 2017, 2018
- MEM Project Planning & Implementation (ENVS 690): Spring 2014, 2015, 2016, 2017, 2018
- National Environmental Policy Act (NEPA) for Environmental Managers (ENVS 623): Fall 2016, 2017, 2018
- Public Lands Management (ENVS 618): Spring 2015, 2016, 2017, 2018
- Social Science Methods for Environmental Managers (ENVS 620): Fall 2017
- Sustainable Rangeland Management (ENVS 625): Fall 2016, 2018

Graduate Teaching Experiences

- Adaptive Capacity for Climate Change Resilience (RAP 620): Spring 2012
- Sustainable Food Systems [Designed, not taught] (HBS 350/650)
- Rangeland Measurements and Monitoring (FRWS 320): Spring 2007, 2008
- Introduction to Rangeland Management (FRWS 300): Fall 2007, 2008

ADVISING & MENTORING

In 2024, I am chair of six student MS committees and on committees for two other graduate students (2 MS). I have advised and graduated twenty successful 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. At University of Wyoming, most of my students have been fully funded to work on climate adaptation-related research in my lab.

MENTORING AT WESTERN STATE COLORADO UNIVERSITY.

At Western State Colorado University, I directed the Master's of Environmental Management Integrative and Public Land Management track. This professional program aimed to provide graduate students with relevant and in-demand skills to launch them into successful careers. The students listed below were my mentees:

1. 2016. **Andres Esparza**. Engaging the Hispanic Community with Public Lands.
Current Job: Grassroots Engagement Director for Conservation Lands Trust.
2. 2016. **Rachel Estrada**. Cross Boundary Landscape Conservation: Curecanti NRA and Adjacent Private Land Owners.
Current Job: Gunnison County Planner
3. 2016. **John Gioia**. Colorado Bureau of Land Management Social Vulnerability Assessment.
Current Job: Conservation Manager at the Colorado Cattleman's Land Trust.
4. 2016. **Erin Griffin**. Breaking Ground: Strategic Expansion of Land Link Program.
Current Job: Climate Smart Communities Coordinator for the Wild Center.
5. 2016. **Megan Mast**. Public Land Recreation and Ethics.
Current Job: Bureau of Land Management Recreation Coordinator
6. 2016. **Tyler Morrison**. Communication Strategy for Bureau of Land Management's AIM Program.
Current Job: Environmental Consultant
7. 2016. **Sarah Peters**. Quivira Coalition Landowner Toolbox Website
Current Job: Peters Ranch Manager
8. 2016. **Liz Weiss**. Bike Planning for Salida, Colorado.
Current Job: US Forest Service Recreation Coordinator
9. 2017: **Anna Drexler-Dreis**. Fraser Flats River Habitat Improvement Project.
Current Job: Environmental Consultant
10. 2017: **Laura Knapp**: Building Resilient Forests: A Collaborative Effort to Address Forest Health in La Plata County, Colorado
Current Job: NRCS Natural Resource Specialist
11. 2017: **Derek Marin**: Holistic Planned Grazing: Planning for Coldharbour Ranch
Current Job: USFS Rangeland Conservationist
12. 2017: **Julia Nave**: Wildlife Use of Restored Wet Meadows in the Gunnison Basin.
Current Job: TNC Program Coordinator
13. 2018: **Jacob Courkamp**: Soil Health Effects of Supplemental Feeding on Working Rangelands in Gunnison Valley, CO.
Current Job: Postdoc at Colorado State University
14. 2018: **Pryce Hadley**. Crossing the Divide: What Mountain Communities Can Learn From Open Space Programs on the Urban-Interface.

- Current Job:* Senior Watershed Ranger for the City of Longmont
15. 2018: **Sam Newman:** Restored Wetland Wildlife Use.
Current Job: Unknown
 16. 2018: **Alexis Weiland:** The ColdHarbour Regenerative Network: Building a Hub for Regenerative Agriculture.
Current Job: The Nature Conservancy Program Coordinator
 17. 2019: **Mila Bock:** Independence Lake Preserve Visitor Use Survey
Current Job: National Forest Foundation Healthy Forests Coordinator
 18. 2020: **Amanda Botsford:** Passing on the Grit: Female Rancher’s Stories.
Current Job: The Nature Conservancy Audubon Canyon Ranch Manager
 19. 2020: **Anna Coburn:** Wildish: A Podcast on Wild Mustangs.
Current Job: Newspaper Reporter Gunnison Country Times and Ranch-hand
 20. 2020: **Kelly O’Toole:** Engaging Diverse Publics in the Era of Streamlined NEPA
Current Job: Bureau of Land Management Program Operations Lead for Resources & Minerals Management.

MENTORING AT UNIVERSITY OF WYOMING.

We launched our new ENRS degree within the Haub School in 2021, but I have served on committees for over fifteen students with programs ranging from Atmospheric Sciences to Anthropology and Agricultural Economics to Communications. The students listed below are those for whom I served or are serving as a committee chair.

1. 2021: **Thomas Cooper Fogle** [JD/MA]: Johnson vs. Mc’Kintosh: Philosophical Foundations and Opportunities for Reflection
Current Job: Law Clerk, Elko County Courts
2. 2023: **Emily Donaldson:** Drought Adaptive Capacity of Rangeland Organizations and Ranchers on the Shortgrass Steppe
Current Job: Subsistence Resource Specialist, State of Alaska
3. 2023: **Emily Peters:** Investigating and Adapting to Climate Related Hazards in Vulnerable Communities in Wyoming
Current Job: Research Associate, University of Wyoming
4. 2024: **Janna Black:** Sense of Place and Water on the Wind River Indian Reservation
Current Job: Tribal Liaison for the Great Plains Tribal Water Alliance
5. 2024: **Pallavi Pokharel:** Water Storytelling in Wyoming
Current Job: Social Scientist, University of Wyoming
6. Expected 2024: **Nicholas Chischilly:** Indigenous Riparian Restoration of Navajo Lands
7. Expected 2024: **Maggie O’Neill:** Stakeholder and Institutional Analysis of the Green River.
8. Expected 2024: **Alec Wallen:** Building Resilience to Fire Through Social Networks.
9. Expected 2025: **Callie Surber:** Identifying climate change related thresholds in socio-ecological systems

RESEARCH

My research focuses on understanding how human communities can adapt and thrive in the context of climate change. I am interested in how people experience and respond to diverse drivers of change and how local and indigenous ways of knowing can be harnessed for adaptation. My research fills a critical gap in social-ecological research, by considering the theory and practice of intentional social-ecological transformations. 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. I have also recently been awarded the University of Wyoming Presidential Scholarly Achievement Award for Early Career Faculty (2022).

PEER REVIEWED PUBLICATIONS.

[* Starred co-authors signify graduate student advisee, post-doc or research scientist]

37. **[In Preparation]** Rebecca Witinok-Huber*, C. Knapp, J. Lund* and W. Eaton. 2024. Does knowledge co-production influence adaptive capacity?: A framework for evaluation. *Environmental Science & Policy*.
36. **[Submitted]** Emily Donaldson*, H. Wilmer, J. Derner and C. Knapp. 2024. Rancher adaptive response: Understanding how rancher's adaptively manage for drought in northeastern Colorado. *Journal of Rangeland Management*.
35. **[Submitted]** Emily Peters*, C. Knapp, K. Clifford & K. Bailey. 2024. Climate change in the cowboy state: Risk perceptions in disadvantaged Wyoming counties. *Climatic Change*.
34. **[In Press]** Amanda Cravens, K. Clifford, **C. Knapp** and W. Travis. 2024. The dynamic feasibility of resisting (R), accepting (A) or directing (D) ecological change *Conservation Biology*.
33. **Knapp, C.N.**, D.R. Kluck, G. Guntenspergen, M.A. Ahlering, N.M. Aimone, A. Bamzai-Dodson, A. Basche, R.G. Byron, O. Conroy-Ben, M.N. Haggerty, T.R. Haigh, C. Johnson, B. Mayes Boustead, N.D. Mueller, J.P. Ott, G.B. Paige, K.R. Ryberg, G.W. Schuurman, and S.G. Tangen. 2023.Ch. 25. Northern Great Plains. In: *Fifth National Climate Assessment*. Crimmins, A.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, B.C. Stewart, and T.K. Maycock, Eds. U.S. Global Change Research Program, Washington, DC, USA. <https://doi.org/10.7930/NCA5.2023.CH25>
32. 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*, biab102, Online at: <https://doi.org/10.1093/biosci/biab102>
31. Clifford, K., A. Cravens and **C. Knapp**. 2021. Responding to ecological transformation: mental models, external constraints and manager decision-making *Bioscience*, biab086, Online at: <https://doi.org/10.1093/biosci/biab086>
30. 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. A synthesis of ranch-level sustainability indicators for land managers and to communicate across the US beef supply chain. *Rangeland Ecology & Management*. 79: 217-230. Online at: <https://www.sciencedirect.com/science/article/pii/S1550742421001020>
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, Chantsallkham 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., Chapin, F.S., Kofinas, G. and N. Sayre. 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. Connecting food environments and health through the relational nature of aesthetics: 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.

8. **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.
7. 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
6. **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.
5. 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.
3. **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.
2. 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

1. 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.

RECENT AWARDS.

2022. University of Wyoming Presidential Scholarly Achievement Award for Early Career Faculty
2024. University of Wyoming Early Career Graduate Faculty Mentor Award
2024. UCROSS residency (November 2024) to work on socio-ecological feedbacks review paper

RESEARCH COLLABORATORS.

[Derek Bailey](#), University of New Mexico; [Karen Bailey](#), University of Colorado; [Drew Bennett](#), University of Wyoming; [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; [Katherine Clifford](#), University of Colorado; [Amanda Cravens](#), USGS; [Lisa Dilling](#), University of Colorado; [Elin Enfors](#), Stockholm Resilience Center; [Brent Ewers](#), University of Wyoming; [Mark Fiege](#), Colorado State University; Rachel Garcia, University of Alaska Fairbanks; [Maria Fernandez-Gimenez](#), Colorado State University; [Nancy Fresco](#), University of Alaska Fairbanks; [Bart Geerts](#), University of Wyoming; 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; [Emily Kachergis](#), Agricultural Research Service; [Gary Kofinas](#), University of Alaska Fairbanks; [Jill Litt](#), University of Colorado Denver; [Ben Livneh](#), University of Colorado; [Debbi Main](#), University of Colorado Denver; [Shannon McNeeley](#), North Central Climate Science Center; [Bethann Merkle](#), University of Wyoming; [Michele-Lee Moore](#), University of Victoria; [Albert Norstrom](#), Stockholm Resilience Center; [Per Olsson](#), Stockholm Resilience Center; [Ginger Paige](#), University of Wyoming; [Robin Reid](#), Center for Collaborative Conservation Colorado State University; Aleta Rudeen, Colorado State University; [Nathan Sayre](#), University of California Berkeley; [Bryan Shuman](#), University of Wyoming; [Ola Tjornbo](#), University of Waterloo; [Sarah Trainor](#), Alaska Center for Climate Adaptation Planning; [Larry Torell](#), University of New Mexico; Hailey Wilmer, Agricultural Research Service; [David Williams](#), University of Wyoming; [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 Guerrieri, 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 Maczco, Sustainable Rangeland Roundtable; Matt McCombs, United States Forest Service; Shannon 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.

2018-2022 [Part-time during COVID-19] Associate Editor, *Rangeland Ecology & Management*.
2019-2020: Associate Editor, *Sustainability*

PROFESSIONAL PRESENTATIONS.

68. *[Planned] Navigating the River of Change in Western Headwaters: Exploring Perceptions of Socio-Ecological Thresholds and Dynamics in Wyoming's Agricultural Landscape.* 2024 Biennial Scientific Conference on the Greater Yellowstone Ecosystem. September 2024. Presentation. Big Sky, MT.
67. *Navigating the River of Change in Western Headwaters: Exploring Perceptions of Socio-Ecological Thresholds and Dynamics in Wyoming's Agricultural Landscape.* National Adaptation Forum. May 2024. Poster. St. Paul, MN.
66. *Ecological Restoration with Tribes: Assessing Best Practices and Reflective Learning.* Riparian Restoration Conference. March 2024. Poster and Presentation. Grand Junction, CO.
65. *Scenario Planning in Rural Communities: a Wyoming Pilot Project Anticipating Climate Transitions.* American Association of Geographers. April 2024. Honolulu, HI.
64. *Innovations in Federal Climate Research Funding for Frontline Communities.* National Adaptation Forum. May 2024. Symposium. St. Paul, MN.
63. *Detecting Climate Change Impacts on Socio-Hydrological Systems in the Rocky Mountains, USA.* Presentation. April 2024. European Geophysical Union. Vienna, Austria.
62. *The National Climate Assessment, Northern Great Plains Chapter.* Workshop hosted with Missouri River Natural Resource Conference. March 2024. Workshop. Nebraska City, NE.
61. *The National Climate Assessment, Northern Great Plains Chapter.* Workshop hosted with Montana State University. March 2024. Workshop. Bozeman, MT
60. *The National Climate Assessment, Northern Great Plains Chapter.* Webinar Hosted with the US Global Change Research Program. February 2024. Webinar. Online
59. *The National Climate Assessment and Western Rangelands: What Can We Expect?* Society for Range Management. January 2024. Symposium. Sparks, NV.
58. *Communicating quantitative climate change information to stakeholders and the public: opportunities and challenges of a regional web portal: a case study for Wyoming.* American Geophysical Union (AGU). December 2023. Poster. San Francisco, CA.

57. *Northern Great Plains, National Climate Assessment*. American Geophysical Union (AGU). December 2023. Poster. San Francisco, CA.
56. *Wyoming Anticipating Climate Transitions*. Salt River Watershed Group. August 2023. Presentation. Online.
55. *Wyoming Anticipating Climate Transitions*. Three Centers Retreat. August 2023. Presentation. Denver, CO.
54. *Wyoming Anticipating Climate Transitions (Wy-ACT): Socio-Ecological Tipping Points, Thresholds, and Baseline Response Functions to Changing Water Availability*. South Dakota Water Conference. Poster. Sioux Falls, SD.
53. *Building evidence to understand how knowledge co-production shapes adaptive capacity in water resource settings*. Co-Author. June 2023. IASNR. Panel. Portland, ME.
52. *Best Practices in Deliberative Science from Environmental Social Scientists*. Contributor. June 2023. IASNR. Panel. Portland, ME.
51. *Social and Institutional Perspectives on Managing Ecological Transformation*. Panel Moderator. June 2023. IASNR. Panel. Portland, ME.
50. *Wyoming Anticipating Climate Transitions: transdisciplinary and translational approaches to understand, anticipate, and prepare for climate change impacts on hydro-eco-social systems in the headwaters regions of western Wyoming*. Contributor. Science of Team Science (INSciTS) Conference. May 2023. Presentation. Baltimore, MD.
49. *Hydro-narratives: Water, Environmental Justice, and a Just Transition Panel*. April 2023. Think and Drink Panel. Invited Panelist. Wyoming Humanities. Laramie, WY.
48. *Wyoming Anticipating Climate Transitions*. Invited Presentation. April 2023. Collaborative Practice in Natural Resource Management Meeting. Thermopolis, WY.
47. *Exploratory Scenario Planning Workshop*. Workshop. April 18-19, 2023. Moose, WY.
46. *Wind River Indian Reservation Listening Sessions*. Forum. April 17-18, 2023. Riverton, WY.
45. *Wyoming Anticipating Climate Transitions*. Webinar. April 2023. Climate Adaptation and Science Center Webinar Series. Online.
44. *Wyoming Anticipating Climate Transitions*. Lecture. November 2022. Haub School Seminar Series. Laramie, WY.

43. *Adaptation in the National Climate Assessment: National and regional perspectives.* Invited Panelist. October 2022. National Adaptation Forum. Panel. Baltimore, MD.
42. *WyACT Planning Workshop.* September 21-23, 2022. Workshop. AMK Ranch, WY.
41. *Anticipating and preparing for climate transition: the University of Wyoming WyACT project.* Invited Panelist. September 2022. MtnCLIM Conference. Panel. Gothic, CO.
40. *WyACT Planning Meeting. Forum. August 2022. Grand Teton National Park, WY.*
39. *Climate change in Yellowstone National Park.* Panel Moderator. May 2022. Yellowstone 150 Conference. Panel. Cody, WY.
38. *Adaptive drought capacity and management on the Colorado shortgrass steppe.* January 2022. Society for Rangeland Management. Poster. Albuquerque, NM.
37. *Navigating wicked problems as geographers: challenges and strategies for participating in wicked problem research.* Panel. American Association of Geographers. April 2020. Denver, CO and online.
36. *Facilitating transfer of knowledge and experiences from one generation of range professionals to the next.* Campfire Conversation January 2020. Society for Rangeland Management. Denver, CO.
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. **Awarded "2nd Place"** Billings, MT.
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. **Awarded "Best Poster"** Madison, WI.
5. Participant in the Inaugural National Symposium on Food Systems & Sustainability. March 2009. University of California, Davis, CA.
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 2010-2021)
- Society for Applied Anthropology (member 2012-current)
- American Society for Adaptation Professionals (member 2012-current)
- Society for Conservation Biology (member 2012-current)

PROFESSIONAL DEVELOPMENT.

8. *Media Training.* October 20, 2024. United States Global Change Research Program. Selected Participant. Opportunity to learn about and practice speaking with the media on a range of issues related to the National Climate Assessment.
7. *Academic Management Institute (AMI) Year-Long Leadership Training.* 2023-2024 (Sessions October 12-13, November 10, January 26, March 7-8 and April 5). Nominated and Selected Participant. Opportunity to gain leadership skills while networking with other female leaders in academia.
6. *NOAA RISA Program Meeting.* November 6-7, 2023. Select Participant. Opportunity to learn and network with other regional CAP RISA programs. Topics included diversity, equity and inclusion as well as intentional transformation.
5. *Three Centers Retreat.* October 2023. Select Participant. Opportunity to coordinate and network with the CASC, NOAA CAP RISA and Climate Hub. Fort Collins, CO.
4. *Neltje Writing Retreat with Gretel Erlich.* May 15-20, 2023. Selected Participant. Opportunity to workshop writing and learn creative non-fiction from Gretel Erlich. Sheridan, WY
3. *Humanities Writing Fellow.* Selected Participant. 2022-2023. Opportunity to focus on creative non-fiction writing, network with other scholars across campus, and provide and receive feedback. Working on a book manuscript: *Mothering in the Context of Climate Change.*
2. *Tribal Natural Resources Management Class.* May 2022. Audit Dr. Tarissa Spoonhunter's class to better understand Tribal governance and meet with Tribal partners. Lander, WY.

1. *National Climate Assessment*. Workshop & Writing Retreat. April 2022. Opportunity to address reviewer feedback and network with other NCA authors. Washington DC.

GRANTS AND AWARDS

GRANTS AWARDED

USGS Climate Adaptation Science Center. CU-Hosted NC CASC: Advancing the development and delivery of actionable science to help fish, wildlife, water, land and people in the North Central region adapt to a changing environment. (2024-2029) Request: \$4,000,000; subaward: \$200,000 [Co-PI]

NOAA Grant. Expanding the evidence base for climate investments toward transformative pathways: A framework to understand climate change adaptation process-outcome linkages (2024-2027) Request: \$400,000. [Co-PI]

University of Wyoming Science Initiative. *Center for Rural Community Resilience & Innovation* Awarded: \$675,000 [Co-PI: Leadership Team]

National Science Foundation Experimental Program to Stimulate Competitive Research Track I. *WY-ACT: Wyoming Anticipating the Climate-Water Transition and Cascading Challenges to Socio-Environmental Systems in America's Headwaters.* (2022-2027) Awarded: \$20,096,484 [Co-PI: Leadership Team]

National Oceanic and Atmospheric Association, Regional Integrated Science and Assessment Center. Western Water Assessment: Building resilience to compound hazards in the Intermountain West. (2022-2027) Awarded: \$4.1 million [\$310,000 subaward to University of Wyoming] [Co-PI: Leadership Team]

EPA P3. Recreator Crowdsourcing of Particle Levels During Wildfires. Awarded: \$25,000 [Co-PI]

University of Wyoming Underrepresented Domestic Minority Fellowship. (2022-2023) Awarded: \$50,000 [PI]

Grand Challenges Seed Fund. Innovative Methods to develop Adaptive Capacity through Transdisciplinarity (IMPACT). (2021-2022) Awarded: \$20,000. [Co-PI]

USDA Agricultural Research Service. Exploring the interface between organizational and individual adaptive capacity to drought. (2020-2022) Awarded: \$40,000 [PI]

Howard Hughes Medical Inclusive Excellence (IE3) Institute Grant. IE3 Learning Community Member (Cluster 7): Effective partnerships between 2- and 4-year institutions (2020-2026) Award: \$400,000 and ongoing [Co-PI]

University of Wyoming (UW) Library. Open Access Educational Resources Grant. (2020-2021) Awarded: \$2,000 [PI]

University of Wyoming Office of Outreach and Engagement. Engagement Faculty Fellowship at UW. (2020-2021) Awarded: \$10,000 [PI]

Bureau of Land Management. BLM Social Vulnerability Assessment Grant. (2015-2020) Awarded: \$101,000 [PI]

National Park Service. Scenario Planning Project Grant. (2015) Awarded: \$60,000 [PI]

Western Alaska Landscape Conservation Cooperative Grant. (2013) Awarded: \$30,000 [Co-PI]

GRANTS SUBMITTED & UNFUNDED

National Science Foundation. FIRE-PLAN: Planning for social and biophysical resilience to wildfires. Submitted 2023. Request: \$40,072 [Co-PI]

National Institutes of Food & Agriculture. Using co-production to build adaptive capacity and understand ecosystem service trade-offs in the context of social-ecological transformations. Submitted 2022. Request: \$559,500 [PI]

National Science Foundation: Regional Innovation Engine. Concept Paper: THRIVE: Human Resilience in Varying Environments Project. Request: \$1,000,000 [submitted concept paper June 2022] [PI]

National Institutes of Food & Agriculture. Using co-production to build adaptive capacity and understand ecosystem service trade-offs in the context of social-ecological transformations. Request: \$536,539 [submitted May 2021: unfunded, but very positive reviews and strong encouragement to resubmit September 2022] [PI]

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

National Center for Atmospheric Research 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] [PI]

National Science Foundation DICES RCN. Network on Digital Technology Request: \$500,000 [submitted November 2020: unfunded] [Co-PI]

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

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

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

SERVICE

UNIVERSITY SERVICE.

As a faculty member at University of Wyoming, I have served on 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. I am currently the Chair for the Diversity, Equity and Inclusion

Committee in the Haub School. I have served on over seven hiring committees including the Dean and Ruckelshaus Institute Director search committees. For the Haub School, I continue to support 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. For the last several years, I served as the chapter lead for the Northern Great Plains regional chapter of the National Climate Assessment, a user-relevant national level assessment of climate change impacts and adaptation for the United States. I currently serve on an advisory committee for the Meridian Institute's Grazing Lands Committee that advises the National Resource Conservation Service on carbon mitigation practices. I have served as an Associate Editor for *Rangeland Ecology and Management* and in this same role for *Sustainability*. I serve as a reviewer every year for high impact international journals ranging from *PNAS* to *Trends in Ecology & Evolution*, and typically review at least ten papers a year. I am a member of six interdisciplinary professional societies, and have been 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 an advisor for a transdisciplinary webinar series put on by the National Institutes of Food and Agriculture. Along with one of my graduate students, I helped to organize an Indigenous Elder-Youth Camp on the Wind River Reservation in September 2023. I have also served as an advisor for the Land Institute's NSF proposal entitled *Civic Science Research Outcomes through Perennial Agroecology*.

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.

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

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

F.S. (Terry) Chapin, Professor Emeritus of Ecology, University of Alaska

Primary PhD Advisor

terry.chapin@alaska.edu; 1-907-474-7922

Robin Reid, Retired Director of the Center for Collaborative Conservation, Colorado State University

Colleague

Robin.reid@colostate.edu; 1-970-491-5941

Betsy Neely, Retired Senior Conservation Planner, The Nature Conservancy

Colleague

bneely@tnc.org; 303-881-4144

Maria Fernandez-Gimenez, Professor, Colorado State University

Primary MS Advisor

Maria.fernandez-gimenez@colostate.edu; 1-970-491-0409

Sarah Trainor, Director, Alaskan Center for Climate Assessment and Policy

Colleague and Supervisor

sarah.trainor@alaska.edu; 907-474-7878

Gary Kofinas, Professor of Research Policy and Management, University of Alaska

PhD Committee Member

gary.kofinas@alaska.edu; 307-690-5103