

## NATHAN FREEMAN SAYRE

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### Academic Posts and Affiliations

#### *Current:*

Professor, Department of Geography, University of California-Berkeley, 2016-present

Visiting Scholar, School of Geography and Environment and the Oxford Martin School, Oxford University, 2022-23

Affiliated Social Scientist, USDA-Agricultural Research Service-Jornada Experimental Range, NSF-Jornada Basin Long-Term Ecological Research (LTER) site, and USDA-Jornada Long-Term Agroecological Research (LTAR) site, Las Cruces, New Mexico, 2008-present

Affiliated Faculty, Department of Anthropology, University of California-Berkeley

Affiliated Faculty, Energy and Resources Group, University of California-Berkeley

Affiliated Faculty, Graduate Program in Range, University of California-Berkeley

Affiliated Faculty, Berkeley Food Institute, University of California-Berkeley

#### *Past:*

Associate Dean for Faculty, Division of Computing, Data Science and Society, University of California-Berkeley, 2020-21

Associate Dean, Division of Social Sciences, University of California-Berkeley, 2018-19

Chair, Department of Geography, University of California-Berkeley, 2013-18

Associate Professor, Department of Geography, University of California-Berkeley, 2010-16

Assistant Professor, Department of Geography, University of California-Berkeley, 2004-10

Post-doctoral Research Associate, USDA-Agricultural Research Service-Jornada Experimental Range, Las Cruces, New Mexico, 12/2000-12/2003. *Mentor:* Dr. Kris Havstad, Supervisory Scientist

Visiting Scholar, Arizona State Museum, 1999-2000

Visiting Professor, Deep Springs College, May-June 1999

### Education

Ph.D., Anthropology, University of Chicago, December 1999

*Dissertation committee:* Jean Comaroff (Chair), Andrew Apter, Alan Kolata, Moishe Postone, Elizabeth Povinelli, and Thomas Sheridan (University of Arizona)

M.A., Anthropology, University of Chicago, December 1995

B.A. (*Summa cum laude*), Yale University, Major in Philosophy, May 1992

Deep Springs College, 1987-89

## Peer-Reviewed Publications

- Ansel Olive Klein, Liz Carlisle, Margaret G. Lloyd, **Nathan F. Sayre**, and Tim Bowles. In review. From theory to practice: Understanding farmer knowledge of soil management on organic farms in Yolo County, California, USA. *Agroecology and Sustainable Food Systems*.
- Sayre, Nathan F.** In press. Sustaining Rangelands in the 21<sup>st</sup> Century. *Rangelands*.
- Sayre, Nathan F.** In press. The History of North American Rangelands. Lance B. McNew, David K. Dahlgren, and Jeffrey L. Beck, eds. *Rangeland Wildlife Ecology and Conservation*. Springer.
- Sayre, Nathan F.** 2023. Stewardship of Rangelands in the 21<sup>st</sup> Century: Managing Complexity from the Margins. Rachel Carnell and Chris Mounsey, eds. *Stewardship and the Future of the Planet: Promise and Paradoxes*. Routledge series on Advances in the History of Bioethics. New York and London: Routledge, pp. 175-191.
- Christopher Dillis, Michael Polson, Hekia Bodwitch, Jennifer Carah, Mary Power, and **Nathan F. Sayre**. 2022. Industrializing Cannabis? Socio-Ecological Implications of Legalization and Regulation in California. In Dominic Corva and Joshua S. Meisel, eds. *The Routledge Handbook of Post-Prohibition Cannabis Research*. Routledge, pp. 221-230.
- Mark W. Brunson, Lynn Huntsinger, Gwendwr R. Meredith, and **Nathan F. Sayre**. 2021. The future of social science integration in rangeland research. *Rangelands*.  
<https://doi.org/10.1016/j.rala.2021.08.007>
- Sayre, Nathan F.** 2021. Comment on Nikolaus Schareika, Christopher Brown and Mark Moritz. "Critical Transitions from Pastoralism to Ranching in Central Africa." *Current Anthropology* 62(1). DOI: 10.1086/713248.
- Sayre, Nathan F.**, and Adam Romero. 2020. Carrying capacities paradigm. In Jean-Frederic Morin and Amandine Orsini, eds. *Essential Concepts of Global Environmental Governance*, 2<sup>nd</sup> Edition, pp. 30-33. Abingdon: Routledge/Earthscan.
- Lisa B. Clark, Annie L. Henry, Rebecca Lave, **Nathan F. Sayre**, Eduardo González, and Anna A. Sher. 2019. Successful information exchange between restoration science and practice. *Restoration Ecology* 27: 1241-1250. DOI: 10.1111/rec.12979.
- Sayre, Nathan F.** 2019. Point versus non-point climate impacts and the profit potential of uneven geographical devaluation. *New Geographies* 10: 44-48.
- Sayre, Nathan F.** 2018. Race, Nature, Nation and Property in the Origins of Range Science. In Rebecca Lave, Christine Biermann, and Stuart Lane, eds. *The Handbook of Critical Physical Geography*. Palgrave, pp. 339-356.
- M. H. Nichols, C. Magiri, and **N. F. Sayre**. 2017. The Geomorphic legacy of water and sediment control structures in a semiarid rangeland watershed. *Earth Surface Processes and Landforms*. DOI: 10.1002/esp.4287.
- Sayre, Nathan F.**, Diana K. Davis, Brandon Bestelmeyer, and Jeb C. Williamson. 2017. Rangelands: Where Anthromes Meet Their Limits. *Land* 6, 31; doi:10.3390/land6020031.
- Sayre, Nathan F.** 2017. *The Politics of Scale: A History of Rangeland Science*. Chicago and London: University of Chicago Press. Winner, CHOICE Outstanding Academic Title Award from Choice Magazine.

- Lynn Huntsinger and **Nathan F. Sayre**. 2017. Landscape Stewardship for Rangelands. In Claudia Bieling and Tobias Plieninger, eds. *The Science and Practice of Landscape Stewardship*. Cambridge: Cambridge University Press, pp. 284-305.
- Sayre, Nathan F.** 2017. Scarcity. In Douglas Richardson, Noel Castree, Michael F. Goodchild, Audrey L. Kobayashi, Weidong Liu and Richard Marston, eds. *The International Encyclopedia of Geography*. John Wiley and Sons. DOI: 10.1002/9781118786352.wbieg0725.
- Sayre, Nathan F.** 2015. Scales and Politics. In Tom Perreault, Gavin Bridge and James McCarthy, eds. *The Routledge Handbook of Political Ecology*, pp. 504-515. London and New York: Routledge.
- Sayre, Nathan F.** 2015. The Coyote-Proof Pasture Experiment: How fences replaced predators and labor on US rangelands. *Progress in Physical Geography* 39: 576-593. DOI: 10.1177/0309133314567582.
- Brandon T. Bestelmeyer, Gregory S. Okin, Michael C. Duniway, Steven R. Archer, **Nathan F. Sayre**, Jebediah C. Williamson and Jeffrey E. Herrick. 2015. Desertification, land use, and the transformation of global drylands. *Frontiers in Ecology and the Environment* 13: 28-36.
- Sayre, Nathan F.**, and Adam Romero. 2015. Carrying capacities paradigm. In Jean-Frederic Morin and Amandine Orsini, eds. *Essential Concepts of Global Environmental Governance*, pp. 21-24. Abingdon: Routledge/Earthscan.
- Thomas E. Sheridan and **Nathan F. Sayre**. 2014. A Brief history of people and policy in the West. In Susan Charnley, Thomas E. Sheridan, and Gary P. Nabhan, eds. *Stitching the West Back Together: Conservation of Working Landscapes*. University of Chicago Press, pp. 3-11.
- Susan Charnley, Thomas E. Sheridan, and **Nathan F. Sayre**. 2014. Status and trends of Western working landscapes. In Susan Charnley, Thomas E. Sheridan, and Gary P. Nabhan, eds. *Stitching the West Back Together: Conservation of Working Landscapes*. University of Chicago Press, pp. 13-32.
- Thomas E. Sheridan, **Nathan F. Sayre**, and David Seibert. 2014. Beyond “stakeholders” and the zero-sum game: Toward community-based collaborative conservation in the American West. In Susan Charnley, Thomas E. Sheridan, and Gary P. Nabhan, eds. *Stitching the West Back Together: Conservation of Working Landscapes*. University of Chicago Press, pp. 53-75.
- Huntsinger, Lynn, **Nathan F. Sayre**, and Luke Macaulay. 2014. Ranchers, land tenure, and grass-roots governance: maintaining pastoralist use of rangelands in the U.S. in three different settings. In Pedro M. Herrera, Jonathan Davies and Pablo Manzano Baena, eds. *The Governance of Rangelands: Collective Action for Sustainable Pastoralism*. London: Routledge, pp. 62-93.
- Lave, Rebecca, Matthew W. Wilson, Elizabeth S. Barron, Christine Biermann, Mark A. Carey, Chris S. Duvall, Leigh Johnson, K. Maria Lane, Nathan McClintock, Darla Munroe, Rachel Pain, James Proctor, Bruce L. Rhoads, Morgan M. Robertson, Jairus Rossi, **Nathan F. Sayre**, Gregory Simon, Marc Tadaki, and Christopher Van Dyke. 2013. Intervention: Critical physical geography. *The Canadian Geographer* 58: 1-10. DOI: 10.1111/cag.12061.
- Knapp, Corrine Noel, James Cochran, F. S. Chapin III, Gary Kofinas, and **Nathan F. Sayre**. 2013. Putting local knowledge and context to work for Gunnison Sage-grouse conservation. *Human-Wildlife Interactions* 7: 195-213.

- Sayre, Nathan F.**, Ryan J. McAllister, Brandon T. Bestelmeyer, Mark Moritz, and Matthew D. Turner. 2013. Earth stewardship of rangelands: coping with ecological, economic, and political marginality. *Frontiers in Ecology and the Environment* 11(7): 348-354.
- Booker, Kayje, Lynn Huntsinger, James Bartolome, **Nathan F. Sayre**, and Bill Stewart. 2013. What can ecological science tell us about opportunities for carbon sequestration on rangelands? *Global Environmental Change* 23: 240-251. DOI: 10.1016/j.gloenvcha.2012.10.001.
- Sayre, Nathan F.**, Eric Biber, and Greta Marchesi. 2013. Social and legal effects on monitoring and adaptive management: a case study of National Forest grazing allotments, 1927-2007. *Society and Natural Resources* 26: 86-94. DOI: 10.1080/08941920.2012.694579.
- Sayre, Nathan F.**, Liz Carlisle, Gareth Fisher, Lynn Huntsinger, and Annie Shattuck. 2012. The Role of rangelands in diversified farming systems: innovations, obstacles, and opportunities in the USA. *Ecology and Society* 17(4): 43. <http://dx.doi.org/10.5751/ES-04790-170443>.
- Huntsinger, Lynn, **Nathan F. Sayre**, and J. D. Wolfhorst. 2012. Birds, beasts and bovines: Three cases of pastoralism and wildlife in the USA. *Pastoralism: Research, Policy and Practice* 2:12. DOI: 10.1186/2041-7136-2-12. URL: <http://www.pastoralismjournal.com/content/2/1/12>.
- Sayre, Nathan F.**, William deBuys, Brandon Bestelmeyer, and Kris Havstad. 2012. 'The Range problem' after a century of rangeland science: New research themes for altered landscapes. *Rangeland Ecology and Management* 65: 545-552.
- Sayre, Nathan F.** 2012. Carrying Capacity. In Robin Kundis Craig, Bruce Pardy, John Copeland Nagle, Oswald Schmitz, & William Smith (Eds.), *The Encyclopedia of Sustainability*, Vol. 5: *Ecosystem Management and Sustainability*, pp. 54-58. Great Barrington, MA: Berkshire Publishing.
- Sayre, Nathan F.** 2012. The Politics of the Anthropogenic. *Annual Review of Anthropology* 41: 57-70. DOI: 10.1146/annurev-anthro-092611-145846.
- Rissman, Adena, and **Nathan F. Sayre**. 2012. Conservation outcomes and social relations: a comparative study of private ranchland conservation easements. *Society and Natural Resources* 25: 523-538. DOI: 10.1080/08941920.2011.580419
- Briske, David, **Nathan F. Sayre**, Lynn Huntsinger, Maria Fernandez-Gimenez, Bob Budd, and Justin Derner. 2011. Origin, persistence, and resolution of the rotational grazing debate: Integrating human dimensions into rangeland research. *Rangeland Ecology and Management* 64: 325-334.
- Sayre, Nathan F.** 2011. A History of Land Use and Natural Resources in the Middle San Pedro Valley, Arizona. *Journal of the Southwest* 53: 87-137.
- Sayre, Nathan F.** 2011. Commentary: scale, rent, and symbolic capital: political economy and emerging rural landscapes. *GeoJournal* 76: 437-439.
- Sayre, Nathan F.** 2010. Entry for "Carrying Capacity." In Barney Warf, ed. *Encyclopedia of Geography*. Sage Publications.
- Sayre, Nathan F.** 2010. Climate Change, Scale, and Devaluation: The Challenge of our Built Environment. *Journal of Energy, Climate, and Environment* 1: 83-94.
- Sayre, Nathan F.** 2010. Climax and "Original Capacity": The Science and Aesthetics of Ecological Restoration in the Southwestern USA. *Ecological Restoration* 28: 23-31.

- Sayre, Nathan F.**, and Richard L. Knight. 2010. Potential effects of United States-Mexico border hardening on ecological and human communities in the Malpai Borderlands. *Conservation Biology* 24: 345-348.
- Sayre, Nathan F.** 2009. Land, labor, livestock and (Neo)Liberalism: Understanding the Geographies of Pastoralism and Ranching. *Geoforum* 40: 705-706.
- Sayre, Nathan F.**, and Alan Di Vittorio. 2009. Scale. Pp. 19-28 in Robert Kitchin and Nigel Thrift, eds. *The International Encyclopedia of Human Geography*, vol. 1. Oxford: Elsevier.
- Sayre, Nathan F.** 2009. Bad Abstractions: Response to Sullivan. *Conservation Biology* 23(4): 1050-1052.
- Sayre, Nathan F.** 2009. Scale. Pp. 95-108 in Noel Castree, David Demeritt, Bruce Rhoads, and Diana Liverman, eds. *A Companion to Environmental Geography*. Chichester, UK: Wiley-Blackwell.
- Sayre, Nathan F.** 2008. Assessing the Effects of the *Grundrisse* in Anglophone Geography and Anthropology. *Antipode* 40(5): 898-920.
- Sayre, Nathan F.** 2008. The Genesis, History, and Limits of Carrying Capacity. *Annals of the Association of American Geographers* 98(1): 120-134.
- Sayre, Nathan F.** 2007. Entries for “Carrying Capacity,” “US Fish and Wildlife Service,” “Endangered Species Act (1973),” “Natural Resource Conservation Service,” “Frederic Clements,” “Grazing,” and “Ranchers.” In Paul Robbins, ed. *Encyclopedia of Environment and Society*. Sage Publications.
- Sayre, Nathan F.** 2007. The Ranching and Mining Period. *Desert Plants* 23(2): 12-17 (special issue on the Buenos Aires National Wildlife Refuge, edited by J. Bezy, C.F. Hutchinson, and C.J. Bahre).
- Sayre, Nathan F.** 2007. A History of Working Landscapes: The Altar Valley, Arizona, USA. *Rangelands* (June): 41-45.
- Huntsinger, Lynn, and **Nathan F. Sayre**. 2007. Introduction: The Working Landscapes Special Issue. *Rangelands* (June): 3-4.
- Sayre, Nathan F.** 2007. The Western Range: A Leaking Lifeboat for Conservation in the New West. In Laura Pritchett, Richard L. Knight, and Jeff Lee, eds. *Home Land: Ranching and a West That Works*. Denver: Johnson Books.
- Sayre, Nathan F.** 2006. Scott Prudham’s *Knock on Wood*: Nature as Commodity in Douglas-Fir Country. *Antipode* 38(5): 1073-1076.
- Sayre, Nathan F.** 2005. *Working Wilderness: the Malpai Borderlands Group and the Future of the Western Range*. Tucson: Rio Nuevo Press.
- Sayre, Nathan F.** 2005. Rangeland degradation and restoration in the “desert seas”: social and economic drivers of ecological change between the sky islands. Pp. 349-352 in Gerald J. Gottfried, Brooke S. Gebow, Lane G. Eskew and Carleton B. Edminster, compilers. *Connecting mountain islands and desert seas: biodiversity and management of the Madrean Archipelago II*. 2004 May 11-15; Tucson, AZ. Proceedings RMRS-P-36. Fort Collins, CO: US Department of Agriculture, Forest Service, Rocky Mountain Research Station. 631 p.
- Sayre, Nathan F.** 2005. Interacting effects of landownership, land use, and endangered species on conservation of Southwestern U.S. rangelands. *Conservation Biology* 19(3): 783-792

- Sayre, Nathan F.** 2005. Ecological and geographical scale: parallels and potential for integration. *Progress in Human Geography* 29(3): 276-290.
- Sayre, Nathan F.** 2004. Viewpoint: The need for qualitative research to understand ranch management. *Journal of Range Management* 57: 668-674.
- Sayre, Nathan F.** 2003. Recognizing History in Range Ecology: 100 Years of Science and Management on the Santa Rita Experimental Range. Pp. 1-15 in Mitchel P. McClaran, Peter F. Ffolliott and Carleton B. Edminster, tech. coords. *Santa Rita Experimental Range: 100 Years (1903-2003) of Accomplishments and Contributions*; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proc. RMRS-P-30. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.
- Sayre, Nathan F.**, and Maria Fernandez-Gimenez. 2003. The Genesis of Range Science, with Implications for Pastoral Development Policy. Pp. 1976-1985 in N. Allsopp, A.R. Palmer, S.J. Milton, K.P. Kirkman, G.I.H. Kerley, C.R. Hurt, and C.J. Brown, eds. *Proceedings of the VIIIth International Rangeland Congress*. 26 July-1 August 2003, Durban, South Africa.
- Sayre, Nathan F.** 2002. *Ranching, Endangered Species, and Urbanization in the Southwest: Species of Capital*. Tucson: University of Arizona Press.
- Curtin, Charles, **Nathan F. Sayre**, and Benjamin Lane. 2002. Transformations of the Chihuahua Borderlands: Grazing, Fragmentation, and Biodiversity Conservation in Desert Grasslands. *Environmental Science and Policy* 5: 55-68.
- Sayre, Nathan F.** 2001. *The New Ranch Handbook: A Guide to Restoring Western Rangelands*. Santa Fe: The Quivira Coalition.
- Sayre, Nathan F.** 1999. The Cattle Boom in Southern Arizona: Towards a Critical Political Ecology. *Journal of the Southwest* 41(2): 239-271.

### **Invited Keynotes, Seminars, Workshops, etc.**

- Invited plenary speaker, Society for Range Management 75<sup>th</sup> Annual Meeting, Albuquerque, NM, 7 February 2022. Talk title: "Sustaining Rangelands in the 21<sup>st</sup> Century."
- Invited speaker, Western Landowners' Alliance workshop (virtual), Beyond Conflict: Sustaining Economic Viability in the Working Wild, 9 November 2021. Talk title: "The History of Federal Land Management."
- Invited participant, workshop funded by Wenner-Gren Foundation, 8-10 June 2021. "Beyond Ranchers and Pastoralists: Studying the Diversity and Dynamics of Livestock Husbandry Systems." (Held virtually; originally scheduled for May 2020 at the School of Advanced Research in Santa Fe.)
- Invited Speaker, Altar Valley Rangeland Resilience Workshop (virtual), University of Arizona, 2 February 2021. "The History of Vegetation Management and Restoration in the Altar Valley."
- Invited participant, workshop on "The Future of Geography," Weatherhead Center for International Affairs, Harvard University, 3-4 October 2019. "Counter-Mapping an Uninhabitable World: Geography in the 21<sup>st</sup> Century."

Invited speaker, Bair Ranch Seminar Series, Department of Animal and Range Sciences, and Department of Earth Sciences Seminar Series, Montana State University, 5 September 2019. “Collaborative Rangeland Conservation in the U.S.: What can the past tell us now?”

Invited speaker, Tod Spieker Colloquium Series, Department of Geography, UCLA, 29 April 2019. “Does Weather/Climate Make Us Non/Human?”

Invited speaker, Environmental Forum, Woods Institute for the Environment, Stanford University, 7 March 2019. “Weather/Climate and the Non-Human: Environmental Anthropology in the Anthropocene”

Closing speaker, Malpai Borderlands Group Science Conference, Rodeo, NM, 8 January 2019.

Closing speaker, Jornada Symposium, USDA-ARS-Jornada Experimental Range, Las Cruces, NM, 12 July 2018

Invited speaker, Spotlight Seminar series, Department of Forest and Rangeland Stewardship, Colorado State University, Fort Collins CO, March 29, 2018.

Keynote speaker, 2017 Rangeland Fall Forum, University of Idaho Rangeland Center, Boise, October 5-6, 2017.

Moderator, Carol Christ and David Neidorf in Conversation. Berkeley Art Museum/Pacific Film Archive Discussion Series, 10 June 2017.

Invited speaker, Geography Graduate Group Colloquium, University of California-Davis, 31 May 2017.

Invited participant, ISEECI History and Geography Working Group meeting, Sedgwick Natural Reserve, Santa Barbara CA, 24-26 March 2017.

Invited speaker, Environments and Societies Colloquium, University of California-Davis, 2 March 2016.

Keynote speaker, Malpai Borderlands Group Science Meeting, 5 January 2016.

Invited panelist, An End to the Age of Entitlement: Reconsidering Land Ownership, Use and Community. Workshop hosted by the David Brower Center and RSF Social Finance, Berkeley CA, 7 November 2015.

Invited speaker, 2015 Southwest Climate Summit: Bridging the Gap—from science to management actions in climate adaptation. Talk title: “When is Carrying Capacity? Problems of time in adapting to drought in Southwestern desert grasslands.” Sacramento, CA, 2-3 November 2015.

Invited participant, Coping with Historic Drought in California Rangelands: Developing Strategies, Tactics and Tools. Workshop convened by the USDA Southwest Climate Hub, Davis, California, September 29-30, 2015.

Invited speaker, Practicing Political Ecology: A Left Coast Workshop, University of California, Berkeley, 7 May 2015.

Invited speaker, California Rangeland Conservation Coalition Annual Summit, Sacramento CA, 3 February 2015. Talk title: “A History of Collaborative Conservation for Rangelands.”

Invited speaker, Berkeley Food Institute Food Exchange Series workshop, “Sustainable Livestock Innovations and Impacts.” David Brower Center, Berkeley CA , 15 May 2014.

Invited speaker, Grazing and Beef Speaker Series, Yale University School of Forestry and Environmental Studies. “The Political Ecology of Rangelands.” 26 March 2014.

Research Seminar: Integrating Social and Biophysical Epistemologies, Data and Methods. Berkeley Social Science Matrix, 2013-2014. (Organizer)

Faculty Workshop: Transitions Towards Sustainable Food Systems. Berkeley Food Institute, 2013-2014. Olivier De Schutter, organizer.

Keynote speaker, conference on Working for Conservation: Active Engagement in Forest and Woodland Sustainability, sponsored by UC-Berkeley College of Natural Resources. Talk title: "How much work does a working landscape take?" Sacramento CA, 10 October 2013.

Invited participant, panel on "Food: nutrition, nutritionism, and the environment." J. E. Sawyer Seminar on *Speciesism and the Future of Humanity: Biology, Culture, and Sociopolitics*, funded by the Andrew W. Mellon Foundation. UC-Berkeley, 21 March 2013.

Invited speaker, Colorado University Geography Department Colloquium. Boulder CO, 22 February 2013.

Invited member, Berkeley Institute of the Environment Roundtable on Diversified Farming Systems, 2010-2013. Claire Kremen and Alastair Iles, organizers.

UC Natural Reserve System Strategic Planning Workshop. National Center for Ecological Analysis and Synthesis, Santa Barbara CA, February 4-6, 2013.

Invited participant, Earth Stewardship Workshop. Ecological Society of America. Washington DC, 18-19 June 2012. Steward Pickett and F. Stuart Chapin III, organizers.

Invited speaker, UC-Davis College of Agriculture and Environmental Sciences. "Using scale for interdisciplinary synthesis and research." Solicited as part of planning for the creation of the new Department of Human Ecology, November 2011.

Invited speaker, TomKat Ranch Field Day: The Climate Benefits of Sustainable Ranching. Sponsored by the California Climate and Agriculture Network. Pescadero, CA, 29 July 2011.

Maps and Locals Workshop II, NSF-Long-Term Ecological Research Network. HJ Andrews Experimental Forest, Blue River, Oregon, June 5-8, 2011. (Co-organizer)

Invited speaker, College of Natural Resources, Utah State University, Logan UT, 17 November 2010. Talk title: "The Western Range: A leaking lifeboat for conservation in the New West."

Maps and Locals Workshop I, NSF-Long-Term Ecological Research Network. University of Alaska-Fairbanks, 7-11 October 2010. (Co-organizer)

Invited speaker, Congress on Western Rangelands, Boise ID, 13 January 2010. Talk title: "The Western Range: A leaking lifeboat for conservation in the New West."

Invited member, Berkeley Institute of the Environment Faculty Roundtable on Environmental Services in Rangeland Production Systems, 2008-2010. James Bartolome, organizer.

Workshop on Community-based Conservation of Working Forests and Rangelands, Stanford University, July 2009. Thomas Sheridan, Susan Charnley and Gary Nabhan, organizers.

Invited speaker, Journal of Energy, Climate, and the Environment Symposium 2009: Climate Policy for the Obama Administration. Washington and Lee University School of Law, 20 February 2009. Talk title: "Climate Change, Scale, and Devaluation: The Challenge of Our Built Environment."

Invited Closing Speaker, 4<sup>th</sup> Summit of the California Rangelands Conservation Coalition, Chico CA, 8 January 2009.



Invited speaker, Department of Forestry and Wildland Resources Colloquium, Humboldt State University, November 2008. Talk title: “Inducing Conservation: Land, leverage, and learning in mixed public-private US rangelands.”

Invited speaker, Environmental Fluid Mechanics and Hydrology Program Colloquium, Department of Civil and Environmental Engineering, Stanford University, Palo Alto, CA, 2 June 2008.

Keynote speaker. 2008 Annual Conference of the California Native Grasslands Association. Santa Rosa, CA, 2 May 2008.

Working Group Meeting on Design Challenges and Solutions for Establishing a Network of Socio-Ecological Research Sites, NSF-LTER Network, San Juan, Puerto Rico, 16-18 December 2008.

Invited speaker, Environmental Politics Colloquium Series, Politics Department, Whitman College, Walla Walla, WA, 25 October 2007.

Invited speaker, Colloquium Series, Department of Environmental Studies, UC Santa Cruz, Santa Cruz, CA, 8 October 2007.

Working Group on Science and Natural Resource Regulation, University of California-Davis School of Law. Davis, CA, 27-28 October 2006. Holly Doremus, organizer.

Saving the Wide Open Spaces Workshop, Tucson AZ, May 2005. Tom Sheridan and Susan Charnley, organizers.

### **Conference Presentations**

“Race, Nature, Nation and Property in the Origins of Range Science.” Invited speaker, Ignite session on Seeing Southwestern Rangelands through History, Art and Culture. Society for Range Management 75<sup>th</sup> Annual Meeting, Albuquerque, NM, 7 February 2022.

“The Exception is Now the Rule: Southwestern Semiarid Grasslands in the History of Rangeland Ecology.” Invited speaker, 14<sup>th</sup> Annual RISE Symposium (Research Insights in Semiarid Ecosystems), University of Arizona, Tucson, AZ, 21 October 2017.

“Ensuring Sustainable Consumption and Production Patterns.” Invited speaker, Ignite session on Sustainable Development Goals: Can Ecologists Help Them Transform our World? Ecological Society of America Annual Meeting, Portland OR, 7 August 2017.

“Replacing the Range: Colonial Legacies in Rangeland Ecology and Management.” Invited presenter in session on Ecologies of the Colonial Present: Legacies in environmental policy and practice. American Association of Geographers Annual Meeting, Boston MA, 9 April 2017.

Invited discussant, panel on “Sustainable Territories II? Local and Transnational Territorializations for Environmental Governance.” American Association of Geographers Annual Meeting, Boston MA, 7 April 2017.

“How Range Science Became Clementsian.” Invited presenter in sessions on Critical Physical Geography, American Association of Geographers Annual Meeting, San Francisco CA, 29 March 2016.

“The Value of Capitalist Natures I: Foundations and Debates.” Invited panelist, Association of American Geographers Annual Meeting, Chicago IL, 22 April 2015.

- “A Scientific Knowledge Perspective.” Panel on “Confronting the Management-Science Knowledge Gap to Support Natural Resource Management.” Society for Range Management Annual Meeting, Sacramento CA, 5 February 2015.
- “CALMing the Rangeland Conflict: the Malpai Borderlands Group.” Panel on “Collaborative Adaptive Landscape Management (CALM) in Rangelands: Are there general principles?” Society for Range Management Annual Meeting, Sacramento CA, 2 February 2015.
- Invited panelist, “Sustainable Livestock Innovations and Impacts.” Berkeley Food Institute’s Food Exchange Series. Berkeley CA, 15 May 2014.
- “The Coyote-Proof Pasture Experiment: How fences replaced predators, fire, and labor on US rangelands.” Energy and Resources Group Colloquium, University of California-Berkeley, 6 November 2013.
- “Follies of fencing and fortification: sustainability and spatial control in the US-Mexico borderlands.” Panel on Nature, Violence, and Property, Annual Meeting of the Association of American Geographers. Los Angeles CA, 19 April 2013.
- “Reflections on shrub control and grass restoration in the Southwest.” Malpai Borderlands Group Annual Science Meeting, Douglas AZ, 8 January 2013.
- Invited respondent, “Cross-disciplinary approaches to ‘borders and crossings’” inno-vent session. Annual Meeting of the American Anthropological Association, San Francisco CA, 16 November 2012.
- “The Malpai Contingency: How Private Land Conservation Easements Can Improve Public Land Management.” North American Congress for Conservation Biology, Oakland CA, 16 July 2012.
- “Historical Roots of the Rangeland Conflict: Overcoming Structural and Intellectual Anachronisms.” 65<sup>th</sup> Annual Meeting of the Society for Range Management, Spokane WA, 31 January 2012.
- “Earth Stewardship and the Built Environment: Climate Change, Scale, and Devaluation.” 96<sup>th</sup> Annual Meeting of the Ecological Society of America, Austin TX, 9 August 2011.
- “Grassland, Shrubland, and Savanna Stewardship: Where Do We Go from Here?” Second author, with Brandon Bestelmeyer. 96<sup>th</sup> Annual Meeting of the Ecological Society of America, Austin TX, 9 August 2011.
- Organizer, Special Session on “Scale, Heterogeneity, and Resilience: Grounding Abstract Concepts in Rangelands.” 96<sup>th</sup> Annual Meeting of the Ecological Society of America, 8 August 2011.
- Organizer and discussant. Using Local Knowledge to Understand Land Use/Land Cover Change at Long Term Ecological Research (LTER) Sites. Annual Meeting of the Association of American Geographers, Seattle WA, 15 April 2011.
- Invited member of panel discussion. Author Meets Critics: Robert Wilson’s *Seeking Refuge: Birds and Landscapes of the Pacific Flyway*. Annual Meeting of the Association of American Geographers, Seattle WA, 14 April 2011.
- Invited member of panel discussion. Human Environment Interactions in the Borderlands. Annual Meeting of the Association of American Geographers, Seattle WA, 13 April 2011.

- “From Contracts to Custom: Reconstituting a Commons through Collaborative Landscape-scale Management.” North America Regional Meeting of the International Association for the Study of the Commons, Tempe AZ, 30 September 2010.
- Invited discussant, Berkeley Institute of the Environment Diversified Farming Systems Working Group. Keynote by Sara Scherr, “Feeding 9 Billion with the Challenges of Climate Change: Towards Diversified Ecoagriculture Landscapes.” 5 May 2010.
- “Cross-site comparison in Long Term Social-Ecological Research: Identifying scales and processes through maps and local knowledge.” Annual Meeting of the Association of American Geographers, Washington DC, 14 April 2010.
- “From Contracts to Custom: Reconstituting a Commons through Collaborative Landscape-scale Management?” Symposium on Pastoralists and Property Rights, Society for Range Management Annual Meeting, Denver CO, 8 February 2010.
- “Inducing Conservation, or Swimming Downstream: Assessing the effects and effectiveness of conservation easements in the Malpai Borderlands.” Malpai Borderlands Group Annual Science Meeting, Douglas, AZ, 5 January 2010.
- “Integrating Local Knowledge into the Study of Southwestern Social-Ecological Systems.” Invited speaker, 18<sup>th</sup> Jornada Symposium, USDA-ARS Jornada Experimental Range, Las Cruces, New Mexico, 16 July 2009.
- “Natural Capital? Resilience, dialectics, and emergent properties.” Paper presented at Annual Meeting of the Association of American Geographers, Las Vegas, Nevada, 22 March 2009.
- Invited discussant for panel: “Geographies of the gift: obligation, gratitude, and exchange.” Annual Meeting of the Association of American Geographers, Las Vegas, Nevada, 23 March 2009.
- “Respecting the roles of science and management in the rangeland profession.” Invited speaker for panel on Development of Comprehensive Grazing Policy Guidelines: A Case for Adaptive Collaboration within the Rangeland Profession. Annual Meeting of the Society for Range Management, Albuquerque NM, 8-12 February 2009
- Organizer, panel on “Pastoralism, Ranching and Capitalism, or, What’s New About Neoliberalism?” Annual Meeting of the Association of American Geographers, San Francisco, CA, 17-21 April 2007.
- “The Western Range Goes Global: Post-World War II International Pastoral Development Projects in the ‘Third World.’” Paper presented to the Annual Meeting of the Association of American Geographers, San Francisco, CA, 17-21 April 2007.
- Panelist, “Geographies of Marx’s Grundrisse.” Annual Meeting of the Association of American Geographers, San Francisco, CA, 17-21 April 2007.
- Discussant, panel on “Emerging Conservation Landscapes I: Agricultural Lands in the American West.” Annual Meeting of the Association of American Geographers, San Francisco, CA, 17-21 April 2007.
- “Problems of history and scale in endangered species conservation: case studies from southern Arizona.” Paper delivered to the Annual Meeting of the American Society for Environmental History, Baton Rouge, LA, 28 February-3 March 2007.
- Invited discussant, panel on “Producing Space for Conservation in Tanzania,” 49<sup>th</sup> Annual Meeting of the African Studies Association, San Francisco, CA, 16-19 November 2006.

- “Natural Capital? Critical Geography and the Quest for Social-Ecological Resilience.” Invited paper for Social Dimensions of Global Environmental Change Speaker Series, Dickey Center for International Understanding, Dartmouth College, 6 November 2006.
- “‘Original Capacity’: A Social History of Restoration Efforts in the Southwestern USA.” Talk presented to “Restoring or Renaturing?: The Presence of the Past in Ecological Restoration. A Transatlantic Workshop”, Institute of Environmental Studies, University of Zurich, Switzerland, 10-11 July 2006.
- “Conservation Across the US-Mexico Border: Historical-Geographical Insights.” Talk presented to the 20<sup>th</sup> Annual Meeting of the Society for Conservation Biology, San Jose, CA, 24-28 June 2006.
- “Rescaling the Range: Interacting Ecological and Economic Processes in Land-Use Conversion.” Energy and Resources Group Colloquium Series, University of California, Berkeley, 5 April 2006.
- “Rangeland Conservation in the US: either green or market, but not both.” Paper presented to the 102<sup>nd</sup> Annual Meeting of the Association of American Geographers, Chicago, 7-11 March 2006.
- “Working Wilderness: The History of the Malpai Borderlands Group and the Future of the Western Range.” Invited presentation, Bill Lane Center for the Study of the North American West, Stanford University, 25 October 2005.
- “Cooperation Replacing Warfare: The Story of the Malpai Borderlands Group.” Invited presentation, Sustainable Development Seminar, Johnson Graduate School of Management, Cornell University, Ithaca NY, 15 April 2005.
- Invited panelist, “Henri Lefebvre: politics, state, space.” Association of American Geographers Annual Meeting, Denver CO, 5-9 April 2005.
- “Prospects and Tools for Sustainable Ranching in the West.” Invited keynote speech, Rangelands West Partnership Conference, Tucson AZ, 16-17 March 2005. [Read aloud on *The Art of Range* podcast by Tip Hudson, 29 September 2022 (episode AoR 91)]
- “Protecting Endangered Species at Large Scales: Problems of Presumption, Risk, and Trust.” Invited paper presented to the Malpai Borderlands Group Science Conference, Douglas AZ, 3-4 January 2005.
- “Against Long Odds: A multidisciplinary long-term planning project with the Malpai Borderlands Group.” Paper presented to the 14<sup>th</sup> Annual Jornada Symposium, Jornada Experimental Range, Las Cruces NM, 15 July 2004.
- “Rangeland degradation and restoration in ‘the desert seas’: social and economic drivers of ecological change between the sky islands.” Paper presented to Biodiversity and Management of the Madrean Archipelago II: Connecting Mountain Islands and Desert Seas, 11-15 May, 2004, Tucson, Arizona.
- “Surrogates for mobility: rediscovering pastoralism in the American West.” Paper presented to the 100<sup>th</sup> Annual Meeting of the Association of American Geographers, Philadelphia, March 2004.
- “Recognizing History in Range Ecology: 100 Years of Science and Management on the Santa Rita Experimental Range.” Paper delivered to Santa Rita Experimental Range: 100 Years (1903-2003) of Accomplishments and Contributions, October 30-November 1, 2003, Tucson, Arizona.

- “The Altar Valley Arroyo: history, impacts and restoration.” Presentation to the Arizona Hydrological Society’s 16<sup>th</sup> Annual Symposium, 17-20 September 2003, Mesa, Arizona.
- “The Genesis of Range Science, with Implications for Pastoral Development Policy” (lead author, with Maria Fernandez-Gimenez). Paper delivered to the VIIth International Rangeland Congress, Durban, South Africa, 26 July-1 August 2003.
- “Burning, grazing, and endangered species: Forest politics in the U.S./Mexico borderlands.” Paper delivered to the 99<sup>th</sup> Annual Meeting of the Association of American Geographers, New Orleans, Louisiana, March 2003.
- Organizer, Moderator, and Panelist. Wildlife on a Fragmenting Range: Can ranchers and scientists conserve habitat in the “New West”? 56<sup>th</sup> Annual Meeting of the Society for Range Management, Casper, Wyoming, February 2003.
- “Managing Grazing, Fire, and Endangered Species on Private, State, and Federal Rangelands: A Comparison of Three Southwestern Cases.” Paper delivered to the 56<sup>th</sup> Annual Meeting of the Society for Range Management, Casper, Wyoming, February 2003.
- “Ranchers, Restoration, and Leopold’s Land Ethic in the Altar Valley Southwest of Tucson.” Paper delivered to the joint meeting of the Ecological Society of America and the Society for Ecological Restoration, Tucson, Arizona, 4-9 August 2002.
- “Scale, Capital, and the Grazing Debate: A Case from the American Southwest.” Paper delivered to the 98<sup>th</sup> Annual Meeting of the Association of American Geographers, Los Angeles, California, 19-23 March 2002.
- “Rethinking Protected Areas: The Case of the Buenos Aires National Wildlife Refuge.” Paper delivered to the Quivira Coalition’s First Annual Conference: The New Ranch at Work, Albuquerque, New Mexico, 18-19 January 2002.
- “Preserving Working Ranches and Desert Grasslands: Theory and Practice.” Paper delivered to Hot Topics/Cool Solutions 2001: The Sustaining Desert: Building Livable Futures. Tucson, Arizona, 10-12 September 2001.
- “The Importance and Some Challenges of Participatory Research.” Paper delivered to the Society for Range Management, Arizona Section Winter Meeting, Tempe, Arizona, 12-13 January 2001.
- “The Free Market, Pristine Nature, and Other Myths of the New West.” Paper delivered to American Anthropological Association Annual Meeting, San Francisco, 15-19 November 2000.
- “Ranching in the Political Ecology of Southern Arizona.” Paper delivered to Society for Applied Anthropology Annual Meeting, Tucson, 20-25 April 1999.
- “‘A Place Outside of Time’: The Construction of Atemporality on a National Wildlife Refuge.” Paper delivered to American Anthropological Association Annual Meeting, Chicago, 17-21 November 1999.
- “Producing a State of Nature: The Buenos Aires National Wildlife Refuge and Henri Lefebvre’s ‘State Mode of Production.’” Paper delivered to 14th World Conference of Sociology, Montreal, 26 July-1 August 1998.
- Organizer and Moderator, panel on Non-Traditional Uses of Grasslands, Conference on “The Future of Arid Grasslands: Identifying Issues, Seeking Solutions,” Tucson, 9-13 October 1996.

## Book Reviews

- Jeffrey P. Shepherd. *Guadalupe Mountains National Park: An Environmental History of the Southwest Borderlands*. Amherst: University of Massachusetts Press, 2019. *Environmental History* 25 (2020): 561-563.
- Andrew Gulliford. *The Woolly West: Colorado's Hidden History of Sheepscapes*. Texas A&M University Press, 2018. *Journal of American History*. DOI: 10.1093/jahist/jay000.
- Jack Stauder. *The Blue and the Green: A Cultural Ecological History of an Arizona Ranching Community*. University of Nevada Press, 2016. *Pacific Historical Review* 87 (2018): 219-220.
- Laura Alice Watt. *The Paradox of Preservation: Wilderness and Working Landscapes at Point Reyes National Seashore*. University of California Press, 2017. *Boom: California* 24 August 2017. <https://boomcalifornia.com/2017/08/24/illusions-and-perversions-in-californias-history-of-preservation/>
- George Colpitts. *Pemmican Empire: Food, Trade, and the Last Bison Hunts in the North American Plains*. Cambridge University Press, 2015. *Agricultural History* 90(2) (Spring 2016): 267-268.
- Benny J. Andres, Jr. *Power and Control in the Imperial Valley*. Texas A&M University Press, 2015. *Journal of American History* 103 (June 2016): 226.
- Robert J. Mayhew. *Malthus: The Life and Legacies of an Untimely Prophet*. Belknap Press of Harvard University Press, 2014. *H-Net Reviews*, April 2015. <http://www.h-net.org/reviews/showpdf.php?id=43912>.
- Andrew Needham. *Power Lines: Phoenix and the Making of the Modern Southwest*. Princeton University Press, 2014. *Pacific Standard Magazine*, 31 December 2014. <http://www.psmag.com/books-and-culture/shelf-help-power-lines-phoenix-making-modern-southwest-95441>
- Andrew Sluyter. *Black Ranching Frontiers: African Cattle Herders of the Atlantic, 1500-1900*. Yale University Press, 2012. *Pastoralism: Research, Policy and Practice*, 4:8 (2014)(3 pp.).
- Peter S. Alagona. *After the Grizzly: Endangered Species and the Politics of Place in California*. University of California Press, 2013. *AAG Review of Books* 2(3) (2014): 86-88.
- Eric Perramond. *Political Ecologies of Cattle Ranching in Northern Mexico: Private Revolutions*. University of Arizona Press, 2010. *Journal of Historical Geography* 37 (2011): 513-514.
- Roger Keil and Rianne Mahon, eds. *Leviathan Undone? Towards a Political Economy of Scale*. University of British Columbia Press, 2009. *Journal of Regional Science* 51 (2011): 647-649.
- Kanishka Goonewardena, Stefan Kipfer, Richard Milgrom and Christian Schmid, eds. *Space, Difference, Everyday Life: Reading Henri Lefebvre*. Routledge, 2008. *International Journal of Urban and Regional Research* 33(4) (2009): 1088-1090.
- Wallace S. Broecker and Robert Kunzig. *Fixing Climate: What Past Climate Changes Reveal About the Current Threat—and How to Counter It*. Hill and Wang, 2008. *Rangelands* 30(6): 48.
- Marcus Hall. *Earth Repair: A Transatlantic History of Environmental Restoration*. University of Virginia Press, 2005. *Journal of Historical Geography* 33 (2007): 711-713..
- “The End of the Grazing Debate.” Review of: George Wuerthner and Mollie Matteson, eds. *Welfare Ranching: The Subsidized Destruction of the American West*. Covelo: Island Press, 2002; and Richard L. Knight, Wendell C. Gilgert and Ed Marston, eds. *Ranching West of the 100<sup>th</sup>*

*Meridian: Culture, Ecology, and Economics*. Covelo: Island Press, 2002. *Conservation Biology* 17(4) (August 2003): 1186-1188.

J. Mallea-Olaetxe. *Speaking Through the Aspens: Basque Tree Carvings in California and Nevada*. Reno: University of Nevada Press, 2000. *Geographical Review* 91(3) (July 2001): 604-606.

David Harvey. *Spaces of Hope*. Berkeley: University of California Press, 2000. *American Ethnologist* 28(3) (August 2001): 694-696.

Roy Ellen and Katsuyoshi Fukui, eds. *Redefining Nature: Ecology, Culture and Domestication*. Oxford: Berg, 1996. *American Ethnologist* 25(3) (August 1998): 515-16.

### **Technical Reports and Other Publications** (sole authored unless otherwise noted)

Sayre, Nathan F., Ruth Kelty, Mark Simmons, Susan Clayton, Karim-Aly Kassam, S.T.A. Pickett, and F. Stuart Chapin III. 2013. Invitation to Earth Stewardship. *Frontiers in Ecology and the Environment* 11(7): 339.

Have we always been diagonal? A response to Osofsky's "Is Climate Change 'International'?" *Opinio Juris* 16 April 2009. <http://opiniojuris.org/2009/04/16/have-we-always-been-diagonal-a-response-to-osofsky%E2%80%99s-%E2%80%9Cis-climate-change-%E2%80%98international%E2%80%99%E2%80%9D/>

The New Western Range. *The Quivira Coalition Journal* No. 30 (March 2007), pp. 12-17.

Sustainable Ranching in the Western US. Invited white paper for "Saving the Wide Open Spaces," a conference convened in Tucson, Arizona, May 13-15, 2005.

A History of Land Use and Natural Resources in the Cascabel-Redington Area of the San Pedro Valley. Lower San Pedro Watershed Assessment Project, Task 3. Contract report to the Redington Natural Resources Conservation District under Grant #00-109 of the Arizona Water Protection Fund. September 2004.

Against Long Odds: A long-term plan for the Malpai Borderlands Group. Malpai Borderlands Group long-term planning project, task 2. Contract report, February 2004.

Rangeland Health and Planned Grazing Field Guide (co-author, with Kirk Gadzia). Santa Fe: Earth Works Institute and Quivira Coalition, 2003.

Ecosystem Management under Conditions of Scientific Uncertainty. Malpai Borderlands Group long-term planning project, task 1: Synthesis and assessment of the state-of-the-knowledge. Contract report, April 2003.

The Urbanization of Ranching. In *Forging a West that Works: An Invitation to the Radical Center*. Santa Fe: Quivira Coalition, 2003.

Rethinking Protected Areas: The Case of the Buenos Aires National Wildlife Refuge. In *The New Ranch at Work: Proceedings of a Conference*. Santa Fe: Quivira Coalition, 2003

Framework for a Habitat Conservation Plan in the Altar Valley Watershed. Report prepared for the Altar Valley Conservation Alliance, under contract with the Sonoran Institute, Tucson, Arizona. June 2002.

Background information for conserving open space and restoring the floodplain in the Altar Valley. Report prepared for the Altar Valley Conservation Alliance, under contract with the Sonoran Institute, Tucson, Arizona. June 2002.

Sayre, Nathan F., Dan Robinett, George Ruyle, Mette Brogden, Harold Barnett and Walter Lane. *Preserving Ranchlands in Pima County*. Report of the Ranch Conservation Technical Advisory Team to the Sonoran Desert Conservation Plan. Tucson: Pima County Board of Supervisors, October 2000.

Land use history of the Altar Valley. Task 3 of the Altar Valley Watershed Resource Assessment. Tucson: Altar Valley Conservation Alliance, April 2000. Funded by the Arizona Water Protection Fund, Grant No. 97-041 WPF.

### **Fellowships, Grants, and Academic Awards**

Principal Investigator, “Transformation of Unregulated Cannabis Cultivation Under Proposition 64.” Michael Polson and Ann Laudati, co-investigators. California Bureau of Cannabis Control Public University Research Grant RG-1603130715-595, \$658,306. 2021-23.

Faculty sponsor, UC-MEXUS Small Grant (ST18/05-05) to Caroline E. Tracey, “Inside the Space of Exception: Life, Death, and Land in the South Texas Desert.” Fall 2018, \$1,500.

Winner, 2017 CHOICE Outstanding Academic Title Award from Choice Magazine for *The Politics of Scale: A History of Rangeland Science*.

Co-PI, CNH-S: Interaction Between Human Perspectives and Natural System Dynamics in the Restoration of Riparian Forests in the Southwestern U.S. Principal Investigator Anna Sher (Denver University). NSF Award 1617463. \$332,839, 2016-2019.

Investigator, LTER: Long-Term Research at the Jornada Basin (LTER-VI). National Science Foundation award number 1235828. \$5,880,000, 2012-2018.

Co-convener, UC-Berkeley Social Science Matrix Prospecting Seminar, “Global Studies: A New Interdisciplinary Major at UC-Berkeley, Fall 2015.

Convener, UC-Berkeley Social Science Matrix Research Seminar, “Integrating social and biophysical epistemologies, data, and methods,” 2013-14.

UC-Mexus Small Grant, 2011. Collaborative socio-ecological research in the US-Mexico Borderlands. \$1500.

NSF-Long-Term Ecological Research Network Social Science Supplement award for “Maps and Locals Project,” through Jornada Basin LTER, 2010. \$17,000.

NSF-Long-Term Ecological Research Network Social Science Supplement award for “Maps and Locals Project,” through Jornada Basin LTER, 2009. \$15,000.

Fellow, Mellon Faculty Institute on Undergraduate Research, University of California, Berkeley, 2006-07.

Junior Faculty Research Grants, Committee on Research, University of California, Berkeley, 2004-05 and 2006-07.

Faculty Research Grant, Committee on Research, University of California, Berkeley, 2005-06.

Post-doctoral Research Fellowship, USDA-Agricultural Research Service-Jornada Experimental Range, December 2000-December 2003.

Weatherhead Fellowship, School of American Research, Santa Fe NM, 1998-99.

National Science Foundation Graduate Research Fellowship, 1995-98.



University of Chicago Century Fellowship, 1994-95.

Summa Cum Laude, Phi Beta Kappa, and Honors in Philosophy, Yale University, 1992.

## **Teaching Experience**

### *Undergraduate Courses:*

Geography 10: World Regions, Peoples, and States. Fall 2005, Fall 2006, Fall 2007, Fall 2008, Spring 2010, Fall 2012. Average enrollment: 245.

Geography 24: Flood, Drought, Fire: Understanding California's Weather Extremes. Freshman Seminar. Fall 2020, Fall 2021. Enrollment: 16-20.

Geography 130: Food and the Environment. Spring 2010, Spring 2011, Fall 2011, Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017, Spring 2018, Spring 2022. Average enrollment: 220.

Geography 130: Natural Resources and Population. Spring 2005, Spring 2006, Spring 2008. Average enrollment: 150.

Letters and Sciences 70B: Global Warming (developed and taught with Professor John Chiang). Spring 2007, Spring 2009, Spring 2011, Spring 2014, Fall 2018. Average enrollment: 100.

Geography 175: Research Seminar: Topics in the History of Natural Resources Management. Spring 2006 (focus on range science), Spring 2008 (focus on carrying capacity). Average enrollment: 15.

### *Graduate Courses:*

Geography 200A: Contemporary Geographic Thought. Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020. Fall 2021. Enrollment: 5-10.

Geography 203: Nature and Culture: Social Theory, Social Practice, and the Environment. Spring 2005, Fall 2005, Fall 2006, Fall 2007, Fall 2008, Spring 2011, Fall 2011, Fall 2016. Enrollment: 8-16.

Geography 220: Capital, Value, and Scale. Spring 2007, Spring 2009, Spring 2013. Enrollment: 6-20.

### *PhD Advisees (year completed, department if not Geography) (\*Chair or Co-Chair):*

\*Jenny Baca (2015)

Erin Beller (2019)

Sheila Berry (ESPM, 2021)

\*Keith Brower Brown

Sandy Brown (2012)

Joseph Bryan (2007)

\*Liz Carlisle (2015)

Clint Carroll (ESPM, 2011)

Alex Chow

Shannon Cram (2015)

Lucy Diekmann (ESPM, 2011)

Jennie Durant (ESPM, 2019)

Michael Dwyer (ERG, 2011)

Gabe Eckhouse (2022)

Andrew Friedman (2014)

Benjamin Gardner (2007)

April Graham-Jackson

Anaya Hall (ERG)

Zac Henson (ESPM, 2013)  
Margot Higgins (ESPM, 2015)  
Tracy Hruska (ESPM, 2020)  
Adam Jadhav  
Ansel Klein (ESPM)  
Julie Klinger (2015)  
Sarah Knuth (2014)  
\*Jessica Lage (2019)  
Rebecca Lave (2008)  
Christopher Lesser  
Matthew Libassi (ESPM)  
Annie Lloyd  
\*Jeff Martin (2020)  
\*Nathan McClintock (2011)  
Evangeline McGlynn  
Susan Kay McIlroy (ESPM, 2008)  
Robert Moeller  
Maywa Montenegro (ESPM, 2018)

MacKenzie Moore (History, 2012)  
Lusi Morhayim (Architecture, 2012)  
Gustavo Oliveira (2017)  
Robert Parks (ESPM)  
Carol Pranka (ESPM, 2014)  
Adena Rissman (ESPM, 2008)  
Paul Roge (ESPM, 2013)  
\*Adam Romero (2015)  
\*Annie Shattuck (2018)  
Avery Shawler (ESPM)  
Anne Short (ERG, 2010)  
Julia Sizek (Anthropology, 2022)  
Paige Stanley (ESPM, 2022)  
\*Caroline Tracey (2022)  
Morgan Vickers  
Xiaowei Wang  
Morgan Williams (2019)

*Qualifying Exam Committees (not including PhD advisees listed above) (\*Chair)*

\*Javier Arbona (2008)  
Josh Arnold (ESPM, 2017)  
Tracy Burnett (ESPM, 2018)  
Jiat-Hwee Chang (Architecture, 2006)  
Stephanie Kim (CRP, 2007)  
Ansel Klein (ESPM, 2019)  
Margiana Petersen-Rockney (ESPM,  
2019)  
Peter Rawitscher (Anthropology, 2005)  
Kimberly Rodrigues (ESPM, 2005)  
Sarah Sears (History, 2022)  
John Stehlin (2011)  
Jason Strange (2005)  
\*Jessica Taal (2008)  
Karin Tuxen Bettman (ESPM, 2005)  
\*Alberto Velazquez (2012)  
\*Mary Whelan (2009)  
Wenjing Xu (ESPM, 2018)  
Annah Zhu (ESPM, 2015)

*Post-Doctoral/ Visiting Mentees*

Mark Carey, Ciriacy-Wantrup Fellow, 2005-2007  
Mike Simpson, SSHRC Fellow, 2016  
Sayd Randle, Ciriacy-Wantrup Fellow, 2020-2022  
Ross Doll, UC-Berkeley Postdoctoral Fellow, 2020-2022

*Undergraduate Advisee Prizes and Awards:*

Rebecca Forbes, Haas Scholarship, 2018-19. Support for summer research and honors thesis mentorship.  
Graham Haught, Summer Undergraduate Research Fund (SURF) fellowship, 2012.  
Gabe Eckhouse, Haas Scholarship, 2011-12. Support for summer research and one-year capstone thesis project.  
Eyal Matalon, John Gardner Public Service Fellowship, 2009. \$25,000 for one-year public service internship. (One of three awarded campus wide.)

Jenny Cooper, John Gardner Public Service Fellowship, 2009. \$25,000 for one-year public service internship. (One of three awarded campus wide.)

Eyal Mazor, Summer Undergraduate Research Fellowship, 2008. Research in Zambia and London.

Jenny Cooper, Summer Undergraduate Research Fellowship, 2008. Research in Seattle.

Jeffrey Martin, Judith Lee Stronach Prize for outstanding undergraduate research, 2008. \$20,000 for one-year research support. (One of five awarded campus wide.)

Agata Surma, Haas Scholarship, 2006. Support for summer research and one-year capstone thesis project.

Joshua Belton, Haas Scholarship, 2006. Support for summer research and one-year capstone thesis project.

*Undergraduate Theses Advised:*

Rebecca Forbes, Honors thesis in Geography, 2019

Aliza McHugh, Honors thesis in Geography, 2018

Maximus Yearian, Honors thesis in Geography, 2018

Daniel McCarty, Honors thesis in Geography, 2017

Sydney Johnson, Honors thesis in Geography, 2016

Hannah Rogge, Honors thesis in Geography, 2016

Katherine Collins, Honors thesis in Geography, 2009

Rachel Hestrin, Honors thesis in Geography, 2007

Agata Surma, Honors thesis in Geography, 2006

Joshua Belton, Honors thesis in Geography, 2006

Diana Strong, Honors thesis in Geography, 2006

*Undergraduate Research Apprentice Program (URAP) Mentees:*

Andrew Cunningham, Spring 2022

Isabelle Fisher, Fall 2021-Spring 2022

Gabrielle Cohen, Fall 2021

Cory Sugano, Spring 2020

Maggie Li, Spring 2020

Laura McFarland, Spring 2019-Spring 2020

Fiona Hannan, Fall 2018-Spring 2019

Thao Tran, Fall 2018

Laura Cowell, Fall 2018-Spring 2019

Sylvia Targ, Fall 2018

Harrison Chan, Spring 2015

*Fiat Lux Scholarship Mentees:*

Adrienne Gomez Villacorta, 2019-20

Thao Le, 2019-20

**Service to the Geography Department**

Head Graduate Advisor, 2021-present

Chair, Department Ad Hoc Review Committee, 3/2020-3/2020

Member, Graduate Admissions Committee, 2018-19

Chair, Faculty Search Committee (Urban or Economic Geography), 2018-19

Department Chair, 7/2013-6/2018

Undergraduate Advisor for Human Geography, 7/2008-6/2013

**Service to Campus and UC System**

Member, Ad Hoc Faculty Committee to interview finalists for the Vice Provost for the Faculty search, June 2022

Reviewer, President's Postdoctoral Fellowship Program, 2022

Elected Member of Divisional Council (DIVCO) of the Berkeley Faculty Senate, 2020-2022

Member, Berkeley Assembly Representation (AREP), 2020-2021 & 2021-2022

Associate Dean for Faculty, Division of Computing, Data Science and Society, 2020-2021

Member, Executive Dean Search Committee for the College of Letters & Sciences, 2020-2021

Member, Joint Academic and Administrative Task Force on Campus Budget, 2020-2021

Chair, Range Graduate Group, 7/2020-present

Member, Executive Committee, Berkeley Food Institute, 2019-2022 (representing the Division of Social Sciences)

Review Committee, Haas Scholars Program, 2021, 2019, 2018, 2017, 2008, 2007.

Member, Energy and Resources Group Executive Committee, 10/2018-present

Council Member, Friends of the Bancroft Library, 8/2018-7/2021

Associate Dean, Division of Social Sciences, 7/2018-6/2019

Participant in UC-Berkeley Faculty Leadership Academy, Spring 2019

Faculty Interviewer, Fiat Lux Scholarship Program, April 2019

Department Ad Hoc Review Committee, Energy and Resources Group, March 2019

Review Committee, Bancroft Library Study Awards Program, 2015-2019, 2022

Review Committee, 2019-2020 Humanities Research Fellowship Program, Division of Arts and Humanities, University of California, Berkeley

Participant, Fundamentals of Major Gift Fundraising, University of California-Berkeley, 26 October 2018

Search Committee, Associate Director of the Social Science Matrix, 9-10/2018

Search Committee, Faculty Director of the D-Lab, College of Letters and Sciences, 6/2018

Faculty Senate Liaison to the External Review Committee for the Department of City and Regional Planning, University of California, Berkeley, 14-16 February 2018  
Faculty interviewer, Fiat Lux Undergraduate Scholarship Program, 2019.  
Faculty Advisory Board Member, Global Studies major, UC-Berkeley, 3/2017-12/2019  
Faculty Advisory Board Member, Global Studies master's program, UC-Berkeley, 1/2017-12/2019  
Steering Committee, Graduate Program in Range, UC-Berkeley, 7/2017-6/2020  
Member, Faculty Search Committee (Agroecology and Sustainable Agriculture), Department of Environmental Science, Policy and Management, 2015-16  
Member, Faculty Search Committee (Cooperative Extension Specialist in Rangeland Policy and Planning), Department of Environmental Science, Policy and Management, 2014-15  
Member, Faculty Advisory Board, Social Science Matrix, UC-Berkeley, 4/2013-6/2015  
Faculty Coordinator, Berkeley Workshop on Environmental Politics, 6/2010-6/2012  
Member, Berkeley Faculty Senate Committee on Research, Fall 2011  
Member, Executive Committee, Environmental Politics Working Group, University of California, Berkeley, 2004-2012

### **Service to the Discipline and Academy**

Editorial Board Member, Land Systems and Global Change Section, *Land*, 5/20-present  
Editorial Board Member, *Annals of the American Association of Geographers*, 1/2012-6/2019  
Elected member, Honors Committee of the American Association of Geographers, 2/2016-2019  
Faculty, Critical Physical Geography Dissertation Workshop, Baltimore MD, 31 March-2 April 2019  
Reviewer, Interdisciplinary Panel, Ford Foundation Fellowship Program in Social Sciences and Humanities. National Academies of Sciences, Engineering, and Medicine, Irvine CA, 14-15 March 2016  
Chair, Rangeland Ecology and Management Section, Ecological Society of America, 7/2011-6/2012  
Editorial Board Member, *Antipode*, 7/2010-3/2014  
Guest Editor, *Geoforum*, themed issue on "Land, Labor, Livestock and (Neo)Liberalism: Understanding the Geographies of Pastoralism and Ranching," 40(5), 9/2009  
Member, Editorial Board, New Frontiers in Historical Ecology book series, Left Coast Press, 2008-present

### **Service to the Public**

Board Member, Gold Rush Heritage Foundation, 11/2017-11/2021  
Board Member, Malpai Borderlands Group, 4/2012-present  
Member, Science Advisory Board, Malpai Borderlands Group, 2003-present  
Member, Advisory Board, Quivira Coalition, 2003-2008

Member, Ranch Conservation Technical Advisory Team, Sonoran Desert Conservation Plan,  
Pima County, 1999-2003

Advisor to Redington Natural Resource Conservation District, Cascabel, Arizona, 2000-2001

### **Service as a Peer Reviewer**

*Manuscripts/proposals reviewed for (# of reviews):*

Agriculture and Natural Resources  
Competitive Grants Program  
(University of California) (2)  
*Annals of the American Association of  
Geographers* (20+)  
*Antipode* (14)  
*BioScience*  
*Case Studies in the Environment*  
*Climatic Change*  
Columbia University Press  
*Conservation Biology* (7)  
*Conservation Letters*  
*Cultural Anthropology*  
*Current Anthropology*  
*Ecological Applications*  
*Ecology and Society* (12)  
*Ecosphere*  
*Environment and Planning A* (4)  
*Environment and Planning D: Society and  
Space*  
*Environment and Planning E: Nature and  
Space* (2)  
*Environmental History* (2)  
*Environmental Management* (3)  
*European Urban and Regional Studies*  
Ford Foundation Fellowship Program  
France Berkeley Fund (2)  
*Frontiers in Ecology and the Environment*  
*Frontiers in Sustainable Food Systems*  
*Geoforum* (9)  
*Geographical Research*  
*The Geographical Review*  
*GeoHumanities*  
*Global Ecology and Conservation*  
*Global Environmental Change* (2)  
*Human Dimensions of Wildlife*  
*Human Organization*  
Island Press  
*Journal of American History* (3)

*Journal of Applied Ecology*  
*Journal of Applied Remote Sensing*  
*Journal of Arid Environments* (2)  
*Journal of Environmental Management*  
*Journal of Environmental Planning and  
Management*  
*Journal of Historical Geography* (2)  
*Journal of the Southwest*  
*Kroeber Anthropological Society Papers*  
*Land* (numerous)  
*Landscape and Urban Planning*  
*Land Use Policy*  
MIT Press  
National Fish and Wildlife Foundation  
National Geographic Society  
National Science Foundation (4)  
New Frontiers in Historical Ecology  
Book Series (Left Coast Press)  
*Nomadic Peoples* (2)  
*One Earth*  
Oxford University Press  
Palgrave Press  
*Pastoralism: Research, Policy and Practice*  
*Plant Ecology*  
*The Professional Geographer*  
*Progress in Human Geography* (3)  
*Rangeland Ecology and Management* (16)  
*Rangelands* (3)  
*Regulation and Governance*  
*SAPIENS*  
*Social and Cultural Geography*  
Springer Science  
Summer Undergraduate Research  
Fellowship (SURF) Program (UC-  
Berkeley)  
Tinker Research Grant Competition  
(UC-Berkeley)  
*Transactions of the Institute of British  
Geographers* (6)

US Department of Agriculture-  
Cooperative State Research,  
Education and Extension Service  
University of Arizona Press  
University of California Press (3)

University of Chicago Press  
University of Iowa Press  
University of Nevada Press  
University of Oklahoma Press  
Yale University Press

*Promotion/Tenure cases reviewed for:*

University of Arizona  
Arizona State University  
Boston University  
University of California, Davis  
University of California, Los Angeles  
University of California, Santa Barbara  
University of California, Santa Cruz  
(2)

Colorado State University  
Dartmouth College  
SUNY-Binghamton  
Ohio University  
Oregon State University  
Rhodes University, South Africa  
University of Wisconsin, Madison  
Utah State University

**Guest Lectures (partial list)**

ESPM 22AC/Anthro 12AC: Cultures of Fire in California, 5 October 2018  
ESPM 158: Biodiversity Conservation in Working Landscapes, 10 March 2016.  
Law 220F: Food Law and Policy. Boalt School of Law, 20 January 2015.  
MBA 292T.3B: Business Solutions for Global Mega Trends. Haas School of Business, 17 April 2014.  
ESPM 186: Management and Conservation of Rangeland Ecosystems. 2009-2019, inclusive.  
ESPM 201A: Research Approaches in Environmental Science, Policy, and Management. 1 October 2013.  
Geog 137: Top 10 Global Environmental Problems. 2011, 2013.

**Media Appearances**

Essay entitled “Prospects and Tools for Sustainable Ranching in the Western U.S.” (originally delivered as keynote address in March 2005) read aloud by host Tip Hudson on *The Art of Range* podcast, 29 September 2022 (episode AoR 91)

Interviewed on *The Art of Range* podcast, 19 March 2019

“Science on the range: studying wide open landscapes in the American West.” Interview for the program *Down to Earth: The Planet to Plate Podcast*, 28 February 2018. URL:

<http://radiocafe.media/downtoearth-nathan-sayre/>

**Research Interests**

Ranching and pastoralism, rangeland ecology and management, history of range science, local ecological knowledge (LEK), rural economic development, climate change and climatic variability, endangered species, scale, the state, environmental history, urbanization/land use change.

**Professional Affiliations**

American Association of Geographers  
Society for Range Management