

## ***Jeremy Vetter***

**9 August 2024**

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**Associate Professor of History**, University of Arizona (Tucson), 2016-Present

**Assistant Professor of History**, University of Arizona (Tucson), 2010-2016

**Assistant Professor of History**, Dickinson College (Carlisle, Pa.), Jan 2007-2010

**Postdoctoral Fellow**, Max Planck Institute for the History of Science (Berlin, Germany), Sep 2005-Dec 2006

### **EDUCATION**

Ph.D., History and Sociology of Science, University of Pennsylvania, 2005

M.A., History and Sociology of Science, University of Pennsylvania, 2001

M.Sc., Human Biology, University of Oxford, 1999

M.Phil., Economic and Social History, University of Oxford, 1999

B.A., History, Philosophy, Physics, Political Science, Economics, Psychology, and Anthropology, University of Nebraska, Lincoln, 1997

### **PUBLICATIONS**

#### **Books**

*Field Life: Science in the American West during the Railroad Era* (Pittsburgh: University of Pittsburgh Press, 2016). [Philip J. Pauly Prize for Best First Book in the History of Science in the Americas, awarded by the History of Science Society]

(editor) *Knowing Global Environments: New Historical Perspectives on the Field Sciences* (New Brunswick: Rutgers University Press, 2011).

#### **Journal Articles**

“The History of Fieldwork,” *Histories* 2, no. 4 (2022): 457-465.

- “Shared Ground: Between Environmental History and the History of Science,” *History of Science* 57, no. 4 (2019): 403-440. [with Mark D. Hersey]
- “Knowing the Great Plains Weather: Field Life and Lay Participation on the American Frontier during the Railroad Era,” *East Asian Science, Technology, and Society* 13, no. 2 (2019): 195-213.
- “Experiential and Cosmopolitan Knowledge: The Transcontinental Field Practices of the U.S. Bureau of Biological Survey,” *Studies in History and Philosophy of Science* 70 (2018): 18-27.
- “Politics, Paternalism, and Progressive Social Evolution: Observations on Colonial Policy in the Scientific Travels of Alfred Russel Wallace,” *Victorian Review* 41, no. 2 (2015): 113-31.
- “Labs in the Field? Rocky Mountain Biological Stations in the Early Twentieth Century,” *Journal of the History of Biology* 45, no. 4 (2012): 587-611.
- “Lay Observers, Telegraph Lines, and Kansas Weather: The Field Network as a Mode of Knowledge Production,” *Science in Context* 24, no. 2 (2011): 259-80.
- “Capitalizing on Grass: The Science of Agrostology and the Sustainability of Ranching in the American West,” *Science as Culture* 19, no. 4 (2010): 483-507.
- “The Unmaking of an Anthropologist: Wallace Returns from the Field, 1862-70,” *Notes and Records of the Royal Society* 64, no. 1 (2010): 25-42.
- “Cowboys, Scientists, and Fossils: The Field Site and Local Collaboration in the American West,” *Isis* 99, no. 2 (2008): 273-303.
- “Field Science in the Railroad Era: The Tools of Knowledge Empire in the American West, 1869-1916,” *História, Ciências, Saúde – Manguinhos* 15, no. 3 (2008): 597-613.
- “Wallace’s *Other* Line: Human Biogeography and Field Practice in the Eastern Colonial Tropics,” *Journal of the History of Biology* 39, no. 1 (2006): 89-123.
- “Science along the Railroad: Expanding Field Work in the U.S. Central West,” *Annals of Science* 61, no. 2 (2004): 187-211.

### **Scholarly Book Chapters**

- “Field Stations and the Problem of Scale: Local, Regional, and Global at the Desert Lab,” in *Spatializing the History of Ecology: Sites, Journeys, Mappings*, eds. Raf de Bont and Jens Lachmund (New York: Routledge, 2017), 79-98.

“Regionalizing Knowledge: The Ecological Approach of the USDA Office of Dryland Agriculture on the Great Plains,” in *New Perspectives on the History of Life Sciences and Agriculture*, eds. Denise Phillips and Sharon Kingsland (Cham: Springer, 2015), 277-96.

“Field Life in the American West: Surveys, Networks, Stations, and Quarries,” in *Scientists and Scholars in the Field: Studies in the History of Fieldwork and Expeditions*, eds. Kristian Nielsen, Michael Harbsmeier, and Christopher J. Ries (Aarhus: Aarhus University Press, 2012), 225-58.

“Introduction,” in *Knowing Global Environments: New Historical Perspectives on the Field Sciences*, ed. Jeremy Vetter (New Brunswick: Rutgers University Press, 2011), 1-16.

“Rocky Mountain High Science: Teaching, Research, and Nature at Field Stations,” in *Knowing Global Environments: New Historical Perspectives on the Field Sciences*, ed. Jeremy Vetter (New Brunswick: Rutgers University Press, 2011), 108-34.

### **Other Articles / Chapters (invited/historiographical/editorially rather than peer reviewed)**

“Engaging Science for Historians: Pluralism and Strong Objectivity,” *Journal for Ecological History* [Chinese environmental history journal] (forthcoming).

“Disappointment in the Field,” in *Surprise: 107 Variations on the Unexpected*, eds. Mechthild Fend, Anke te Heesen, Christine von Oertzen, and Fernando Vidal (Berlin: Max Planck Institute for the History of Science, 2019), 412-414.

“Explaining Structural Constraints on Lay Participation in Field Science” *Isis* 110, no. 2 (2019): 325-327.

“Roundtable: New Histories of Science and Agriculture,” *Agricultural History* 92, no. 4 (2018): 569-604. [with Deborah Fitzgerald, Emily Pawley, Lisa Onaga, and Denise Phillips]

“Field and Laboratory,” in *A Companion to the History of American Science*, eds. Georgina M. Montgomery and Mark A. Largent (Chichester: Wiley Blackwell, 2016), 374-84.

“The Field,” in *A Companion to the History of Science*, ed. Bernard Lightman (Chichester: Wiley Blackwell, 2016), 282-95. [with Robert E. Kohler]

“Introduction: Lay Participation in the History of Scientific Observation,” *Science in Context* 24, no. 2 (2011): 127-41.

### **Encyclopedia Articles**

“Topographical Engineers, U.S. Army” in *Encyclopedia of American Environmental History*, ed. Kathleen A. Brosnan (New York: Facts on File, 2011), 1272-73.

“U.S. Geological Survey,” in *Encyclopedia of American Environmental History*, ed. Kathleen A. Brosnan (New York: Facts on File, 2011), 1347-50.

## Book Reviews

*Agricultural History* (in prep) - review of Kelly Bronson, *The Immaculate Conception of Data: Agribusiness, Activists, and Their Shared Politics of the Future* (McGill-Queen's University Press, 2022).

*New Mexico Historical Review* (in prep) - review of Steven C. Beda, *Strong Winds and Widow Makers: Workers, Nature, and Environmental Conflict in Pacific Northwest Timber Country* (University of Illinois Press, 2023).

*Journal of the History of the Behavioral Sciences* 60, no. 1 (2024) - review of Timothy W. Kneeland, ed., *The Routledge History of American Science* (Routledge, 2023).

*Environmental History* 27, no. 1 (2022): 166-167 - review of Andra B. Chastain and Timothy W. Lorek, eds., *Itineraries of Expertise: Science, Technology, and the Environment in Latin America's Long Cold War* (University of Pittsburgh Press, 2020).

H-Environment (December 2021) - review of Helena Ekerholm, Karl Grandin, Christer Nordlund, and Patience A. Schell, ed., *Understanding Field Science Institutions* (Science History Publications, 2017).

*Isis* 111, no. 1 (2020) 166-167 - review of Cameron B. Strang, *Frontiers of Science: Imperialism and Natural Knowledge in the Gulf South Borderlands, 1500-1850* (University of North Carolina Press, 2018).

*Journal of American History* 106, no. 2 (2019): 484-485 - review of Michael J. Lannoo, *This Land is Your Land: The Story of Field Biology in America* (University of Chicago Press, 2018).

*Technology and Culture* 60, no. 1 (2019): 333-35 - review of James Schwoch, *Wired Into Nature: The Telegraph and the North American Frontier* (University of Illinois Press, 2018).

*Journal for the History of Astronomy* 50, no. 1 (February 2019): 114-15 - review of David Baron, *American Eclipse: A Nation's Epic Race to Catch the Shadow of the Moon and Win the Glory of the World* (Liveright, 2017).

*Business History Review* 92, no. 3 (Autumn 2018): 577-79 - review of Torsten Kathke, *Wires That Bind: Nation, Region, and Technology in the Southwestern United States, 1854-1920* (Transcript Verlag, 2017).

H-Environment Roundtable (August 2018) - review of Courtney Fullilove, *The Profit of the Earth: The Global Seeds of American Agriculture* (University of Chicago Press, 2017).

- Western Historical Quarterly* 49, no. 3 (2018): 356-57 - review of Kim Engel-Pearson, *Writing Arizona, 1912-2012: A Cultural and Environmental Chronicle* (University of Oklahoma Press, 2017).
- H-Environment (February 2017) - review of Sarah Johnson, comp. *Farming* (White Horse Press, 2016).
- Isis* 107, no. 1 (2016): 197-98 - review of Christopher F. Jones, *Routes of Power: Energy and Modern America* (Harvard University Press, 2014).
- Agricultural History* 89, no. 3 (2015): 486-88 - review of Dolly Jorgensen, Finn Arne Jorgensen, and Sara B. Pritchard, eds., *New Natures: Joining Environmental History with Science and Technology Studies* (University of Pittsburgh Press, 2013).
- Journal of Arizona History* 56, no. 3 (2015): 377-78 - review of Lincoln Bramwell, *Wilderburbs: Communities on Nature's Edge* (University of Washington Press, 2014).
- Earth Sciences History* 32, no. 1 (2013): 150-51 - review of Axel Jansen, *Alexander Dallas Bache: Building the American Nation through Science and Education in the Nineteenth Century* (Campus Verlag, 2012).
- H-Environment Roundtable (2012), no. 7 - review of Thomas R. Dunlap, *In the Field, Among the Feathered: A History of Birders and Their Guides* (Oxford University Press, 2011).
- Environmental History* (2012): 881-83 - review of Albert G. Way, *Conserving Southern Longleaf: Herbert Stoddard and the Rise of Ecological Land Management* (University of Georgia Press, 2012).
- Earth Sciences History* 31 (2012): 162-64 - review of Fritiof M. Fryxell, *Ferdinand Hayden: A Young Scientist in the Great West, 1853-1855* (Augustana Historical Society, 2010).
- Agricultural History* 86 (2012): 103-5 - review of Edmund Russell, *Evolutionary History: Uniting History and Biology to Understand Life on Earth* (Cambridge University Press, 2011).
- Journal for the History of Astronomy* 43 (2012): 123-25 - review of Richard Stachurski, *Finding North America: Longitude by Wire* (University of South Carolina Press, 2009).
- Isis* 102 (2011): 771-72 - review of Paul Brinkman, *The Second Jurassic Dinosaur Rush: Museums and Paleontology in America at the Turn of the Twentieth Century* (University of Chicago Press, 2010); and Lowell Dingus and Mark A. Norell, *Barnum Brown: The Man Who Discovered Tyrannosaurus Rex* (University of California Press, 2010).
- Montana* 58, no. 3 (2008): 81-82 - review of John Opie, *Virtual America: Sleepwalking through Paradise* (University of Nebraska Press, 2008).

*Isis* 97 (2006): 791-93 - review of Marcus Hall, *Earth Repair: A Transatlantic History of Environmental Restoration* (University of Virginia Press, 2005); and Finis Dunaway, *Natural Visions: The Power of Images in American Environmental Reform* (University of Chicago Press, 2005).

H-West (February 2004) - review of Rita Napier, ed., *Kansas and the West: New Perspectives* (University Press of Kansas, 2003).

H-West (December 2002) - review of John D. McDermott, comp., *Gold Rush: The Black Hills Story* (South Dakota State Historical Society Press, 2001).

*Environmental History* 7 (2002): 701-2 - review of Carl-Henry Geschwind, *California Earthquakes: Science, Risk, and the Politics of Hazard Mitigation* (Johns Hopkins University Press, 2001).

*Journal of the History of the Behavioral Sciences* 37 (2001): 404-5 [with Alex Checkovich] - review of William W. Speth, *How It Came to Be: Carl O. Sauer, Franz Boas and the Meanings of Anthropogeography* (Ephemera Press, 1999).

## **PUBLICATIONS IN PROGRESS**

### **Books**

*Agate: The Biography of a Scientific Field Site*

*Great Plains Science: An Environmental History of Agricultural Research before the Dust Bowl*

*Capitalist Nature: The Sciences of Development in the American West*

*Knowledge Frontier: Scientists and Settlers in the American West*

*Labscales of Southern Arizona: The Desert Laboratory, Santa Rita Experimental Range, and Biosphere 2*

### **Articles/Chapters (selected)**

“The Field Man: Skill and Identity in Outdoor Scientific Research” (full draft under revision)

“Conservation, Calculation, and Control: The U.S. Geological Survey in Yellowstone National Park, 1883-1910” (full draft under revision)

## **SCHOLARLY CONFERENCE AND INVITED PRESENTATIONS**

WEST Network, American Museum of Natural History Southwestern Research Station, Portal, Ariz., May 2024: “Little Kingdoms Revisited: Thinking About Counties in U.S. History”

American Society for Environmental History, Denver, Colorado, April 2024: “‘The Factory’s Deaf’ning Sound: Class, Technology, and the Sonic Environment in Lowell, Massachusetts”

WEST Network, Lubrecht Experimental Forest, Montana, May 2023: “‘The Factory’s Deaf’ning Sound’: Class, Technology, and the Sonic Environment in Lowell, Massachusetts ”

American Society for Environmental History, Boston, Massachusetts, March 2023: “Great Plains Science: An Environmental History of Agricultural Research before the Dust Bowl”

^History of Science: State of Field Roundtable, Department of History and Sociology of Science, University of Pennsylvania, October 2022

Earth and Environmental Sciences Working Group, Consortium for the History of Science, Technology, and Medicine, October 2022: “Agate: Biography of a Scientific Field Site”

^Modern Expeditions Network, Erfurt, Germany, June 2022: “Writing the History of Scientific Fieldwork”

^Ivan Doig Center for the Study of the Lands and Peoples of the North American West, Montana State University, Bozeman, April 2022

History of Science Society, Virtual Meeting, November 2021: “The Field Man: Skill and Identity in Underground Scientific Research at Dinosaur National Monument and Agate Fossil Beds”

^Massachusetts Historical Society, Environmental History Seminar, November 2021: invited commentary on Elizabeth Williams, “The ‘Science’ of Dry-Farming: The Emergence of a Concept in Global Perspective”

Agricultural History Society, Virtual Meeting, June 2021: “The Challenge of Alkali Soils in the American West”

Western History Association, Virtual Meeting, October 2020: “Reacting to the West”

WEST Network, University of Colorado-Boulder Mountain Research Station, Nederland, Colo., June 2019: “History of Land Use Conflict in the Estes Valley”

Agricultural History Society, Washington, D.C., June 2019: “The Origins of the U.S. Land Grant College-Industrial Complex”

WEST Network, University of Montana Biological Station, Flathead Lake, Montana, June 2018: “The Founding and Early Development of the University of Montana Biological Station”

- Agricultural History Society, St. Petersburg, Florida, May 2018: “How Did (and Didn’t) Agricultural Scientists on the U.S. Great Plains before the Dust Bowl Appropriate Farmer Knowledge?”
- American Society for Environmental History, Riverside, California, March 2018: “Thinking Locally, Interpreting Globally: Power, Place, and Knowledge at the Agate Fossil Beds and Beyond”
- History of Science Society, Toronto, Canada, November 2017: “Experiential and Cosmopolitan Knowledge: The U.S. Bureau of Biological Survey during the Railroad Era”
- WEST Network, Colorado State University, Mountain Campus, May 2017: “Knowing the Great Plains Weather: Field Life and Lay Participation on the American Frontier during the Railroad Era”
- American Society for Environmental History, Chicago, Illinois, March 2017: “Chasing the Chinook: Knowing the Wind through Science and Bodily Experience”
- ^CHASES Lecture Series, Mississippi State University, Starkville, March 2017: “Field Life: Science in the American West during the Railroad Era”
- ^Citizen Science: Disciplining or Empowering the Public? Some Historical and Normative Perspectives on Knowledge and Power, Academia Sinica, Taipei, Taiwan, December 2016: “Field Life and Lay Participation in the American West during the Railroad Era”
- Histories of Capitalism 2.0, Cornell University, Ithaca, New York, September-October 2016: “Science and the Production of Value in Capitalist Agriculture on the U.S. Great Plains”
- ^Authors Workshop: Experiencing the Global Environment, Max Planck Institute for the History of Science, Berlin, Germany, August 2016: “Experiential and Cosmopolitan Knowledge: The U.S. Bureau of Biological Survey during the Railroad Era”
- Agricultural History Society, Briarcliff Manor, New York, June 2016: “Science and the Production of Value in Capitalist Agriculture on the Great Plains”
- WEST Network, American Museum of Natural History Southwestern Research Station, Portal, Ariz., May 2016: “Agate: The Biography of a Scientific Field Site”
- ^Preliminary Workshop: Experiencing the Global Environment, Max Planck Institute for the History of Science, Berlin, Germany, February 2016: “Experiential and Cosmopolitan Knowledge: The U.S. Bureau of Biological Survey during the Railroad Era”
- ^World Society, Planetary Natures (interdisciplinary conference sponsored by the World Society Foundation), Binghamton University, Binghamton, N.Y., July 2015: “Making Capitalist Natures: Science, Power, and Capital in the Modern World”



- WEST Network, University of Colorado-Boulder Mountain Research Station, Nederland, Colo., June 2015: “Capitalist Nature: The Sciences of Development in the American West”
- Philadelphia Area Center for the History of Science, Philadelphia, Pa., March 2015: “Field Stations and the Problem of Scale: Local, Regional, and Global at the Desert Lab”
- ^Spaces of Ecological Knowledge, Maastricht, The Netherlands, November 2014: “Desert Knowledge and Mountain Knowledge: Field Stations and Environmental Regions in the Early Twentieth-Century American West”
- Western History Association, Newport Beach, Calif., October 2014: “The American West as a Region in World Science: Colony, Frontier, or Emerging Center?”
- ^Workshop: Spaces of Science, Saskatoon, Canada, September 2014: “Surveys, Networks, Stations, and Quarries: Field Science in the American West during the Railroad Era”
- Agricultural History Society, Provo, Utah, June 2014: “Reframing Science from the Ground Up: Knowledge of Grass and Soil in the Making of the U.S. Great Plains”
- WEST Network, Indiana University Geological Field Station, Mont., June 2014: “Great Plains Science: An Environmental History of Agricultural Research before the Dust Bowl”
- History of Science Society, Boston, Mass., November 2013: “Reframing Science from the Ground Up: Knowledge of Grass and Soil in the Making of the U.S. Great Plains”
- ^Life Sciences, Agriculture, and the Environment, Johns Hopkins University, Baltimore, Md., June 2013: “Regionalizing Knowledge: The Ecological Approach of the USDA Office of Dryland Agriculture on the Great Plains”
- WEST Network, Colorado State University, Mountain Campus, May 2013: “Epistemic Rift: A New Concept for Environmental History of Science”
- Western History Association, Denver, Colo., October 2012: “The Making of the Great Plains: Science and the Economic Roots of a Region”
- ^Science, Space, and Environment, London Science Museum (co-sponsored by Rachel Carson Center), London, England, July 2012: “The Industrialization of Science in the Field: Transforming Practice and Environmental Change in the American West, 1860-1920”
- Agricultural History Society, Manhattan, Kan., June 2012: “The Two Faces of Early Agricultural Experiment Station Science”
- American Society for Environmental History, Madison, Wis., March 2012: “Expertise, ‘Epistemic Rift’ and Environmental Knowledge in Mining and Agriculture in the U.S. Great Plains and Rocky Mountains”

History of Science Society, Montreal, Quebec, Canada, November 2010: “Capitalist Nature: The Sciences of Development in the American West, 1860-1920”

Western History Association, Denver, Colo., October 2009: “Developing the American West: Agricultural Sciences and the ‘Land Industry’ in the Railroad Era”

^Darwin Bicentennial Symposium Session on Evolution and Environment on the Great Plains, Lincoln, Nebr., March 2009: “Putting Darwin to Work: The Transformation of Scientific Field Practice in American Regions, 1809-2009”

American Society for Environmental History, Tallahassee, Fla., February 2009: “Conservation, Calculation, and Control: The U.S. Geological Survey in Yellowstone National Park, 1883-1910”

History of Science Society, Pittsburgh, Pa., November 2008: “Rocky Mountain High Science: Teaching, Research, and Nature at Field Stations”

Nature’s Accountability: Aggregation and Governmentality in the History of Sustainability, German Historical Institute, Washington, D.C., October 2008: “Capitalizing on Grass: Environmental Knowledge, Political Economy, and the Making of the Sustainable Cowboy in the American West”

^Ways of Knowing the Field: International Conference on the History of Field Work, Cartography, and Scientific Exploration, Copenhagen, Denmark, August 2008: “Field Life”

Joint Meeting of HSS, CSHPS, and BSHS, Oxford, England, July 2008: “Local Observers, Telegraph Lines, and Kansas Weather: The Field Network as a Mode of Knowledge Production”

Agricultural History Society, Reno, Nev., June 2008: “The Anti-Politics of Scientific Agriculture on the U.S. Great Plains, 1890-1920”

American Society for Environmental History, Boise, Idaho, March 2008: “Capitalizing Nature: Land Development, Classification, and Soil Knowledge in the U.S. Great Plains, 1900-1920”

History of Science Society, Arlington, Va., November 2007: “Developing the American West: Agricultural Sciences and the ‘Land Industry’ in the Railroad Era”

Agricultural History Society, Ames, Ia., June 2007: “Soil Science and the Capitalist Development of the Great Plains”

Lay Participation in the History of Scientific Observation, Max Planck Institute for the History of Science, Berlin, Germany, May-June 2007: “Local Observers, Telegraph Lines, and Kansas Weather: The Field Network as a Mode of Knowledge Production”

Knowing Global Environments: New Perspectives in the History of the Field Sciences,  
University of Pennsylvania/APS, Philadelphia, Pa., May 2007: “Rocky Mountain High  
Science: Research, Pedagogy, and Nature at Field Stations”

American Society for Environmental History, Baton Rouge, La., February-March 2007: “What  
Is Molecular History?”

^Field Studies Workshop #1, The Sandbjerg Estate, Denmark, November 2006, “Field Life:  
Doing Science in the American West During the Railroad Era”

Western History Association, St. Louis, Mo., October 2006, “Soil Science and the Capitalist  
Development of the Great Plains”

Agricultural History Society, Cambridge, Mass., June 2006, “Reforming Agriculture on the U.S.  
Great Plains: Regional vs. National Approaches to State-Funded Science in the  
Progressive Era”

American Society for Environmental History, St. Paul, Minn., March-April 2006: “Dry Farming,  
Development, and Democracy: Environment, Research, and Practice on the U.S. Great  
Plains Frontier”

Society for the History of Technology, Minneapolis, Minn., November 2005: “Knowledge and  
the Mining Business: The Technological Agenda of the Colorado Scientific Society”

Graduate Student Conference on Historical Social Science, Binghamton University, Binghamton,  
N.Y., April 2005: “Regions of Knowledge Production: A World-Systems Approach to  
the History of Science”

^Department of History and Sociology of Science, University of Pennsylvania, Philadelphia, Pa.,  
Workshop, November 2004: “The Region as a Unit of Analysis: Field Work,  
Environment, and Scientific Development in the American West”

History of Science Society, Austin, Tex., November 2004: “Knowledge, Capitalism, and the  
States: The Role of State Surveys in the Economic Development of the U.S. Central  
West, 1890-1920”

Workshop in History of Environment, Agriculture, Technology, and Science (WHEATS),  
M.I.T., October 2004: “Aridity, Agricultural Science, and American Expansion:  
Founding and Developing the North Platte Station in the U.S. Central Plains, 1904-1920”

Joint Meeting of HSS, CSHPs, and BSHS, Halifax, N.S., Canada, August 2004: “Settler Science  
Goes Metropolitan? Studying Birds and Mammals at the Colorado Museum of Natural  
History, 1901-1920”

American Society for Environmental History, Victoria, B.C., Canada, March-April 2004:  
“Wheat in the West: Agricultural Research and Dry Farming in the Semi-Arid Grasslands  
of the U.S. Central Great Plains”

Society for the History of Technology, Atlanta, Ga., October 2003: “The Right Place for the  
Camp: Locating the University of Michigan’s Summer Field School for Engineers”

Southwest Colloquium in the History and Philosophy of the Life Sciences, Arizona State,  
Tempe, Ariz., February 2003: “Science Moves West: Environment, Development, and  
Nature Research in the Sandhills and High Plains of Nebraska, 1880-1920”

History of Science Society, Milwaukee, Wis., November 2002: “Knowledge Moving Across  
Geographical Borders: The Circulation of Scientific Data and Objects from Field Sites in  
the Early Twentieth-Century U.S. Central West”

Western History Association, Colorado Springs, Colo., October 2002: “Field Scientists in the  
Central West, 1860-1890”

Joint Atlantic Seminar in the History of the Physical Sciences, Georgia Tech University, Atlanta,  
Ga., September 2002: “Minerals, Meteorites, and Meteorology: Field Work for  
Knowledge Production in the U.S. Central West”

History of Science Society, Denver, Colo., November 2001: “Getting Into the Field:  
Transportation Networks, Colonial Infrastructure, and the Making of Anthropological  
Knowledge in the Nineteenth Century”

Mid-Atlantic Conference in the History of Science, Technology, and Medicine, Carnegie-Mellon  
University, Pittsburgh, Pa., July 2000: “The Un-Making of an Anthropologist: Wallace  
Returns from the Field, 1862-70”

Joint Atlantic Seminar in the History of Biology, Princeton University, Princeton, N.J., March  
2000: “Wallace’s Other Line: Human Biogeography and Field Practice in the Eastern  
Colonial Tropics”

British Society for the History of Science Post-Graduate Conference, University of Manchester,  
Manchester, England, January 1999, “Victorian Naturalist as Anthropologist: Alfred  
Russel Wallace on Human Evolution”

## **PROFESSIONAL ACTIVITIES**

### **Leadership**

Lead Organizer, WEST (Western Environment, Science, and Technology History) Network of  
graduate programs in the Mountain West, 2011-Present

Secretary-Treasurer, Earth and Environment Forum, History of Science Society, 2012-Present

Co-Convener, Consortium for the History of Science, Technology, and Medicine (CHSTM),  
Earth and Environmental Sciences Working Group, Fall 2014-Spring 2024

Committee Member, Levinson Prize, History of Science Society, 2020

Executive Committee, Agricultural History Society, 2015-2018

Co-Organizer, Environmental History of Global Deserts Conference, September 2015

Local Arrangements Committee Member, Western History Association, October 2013

Councilor, History of Earth Sciences Society, 2012-2014

Chair, Dissertation (Fite) Prize Committee, Agricultural History Society, 2012

Forum for the History of American Science Prize Committee, 2009, 2010, 2011

Committee Member, Dissertation (Fite) Prize, Agricultural History Society, 2010, 2011

Chair, Earth and Environment Forum, History of Science Society, 2008-2011

Steering Committee Member, Forum for the History of American Science, History of  
Science Society, 2008-2011

Conference Organizer, “Lay Participation in the History of Scientific Observation,” Max  
Planck Institute for the History of Science, June 2007

Conference Organizer, “Knowing Global Environments: New Historical Perspectives on  
the Field Sciences,” University of Pennsylvania/APS, May 2007

Steering Committee Member, Earth and Environment Forum (History of Science  
Society), 2005-2008

### **Scholarly Journals**

Editorial Board, *Environmental History*, 2021-Present

Guest co-editor with Mark D. Hersey for special issue of *History of Science* on “Shared Ground:  
Between Environmental History and the History of Science” (vol. 57, no. 4, 2019).

Editorial Advisory Board, *Isis* [journal of the History of Science Society], 2013-2018

Guest editor for special issue of *Science in Context* on “Lay Participation in the History of  
Scientific Observation” (vol. 24, no. 2, 2011).

## **Other Peer Reviewing**

Have served as referee for a variety of journals, fellowships, and presses, including *Agricultural History*, *Anthropology Today*, Berghahn Books, Brill, *British Journal for the History of Science*, *Bulletin of the History of Medicine*, Cambridge University Press, *East Asian Science Technology and Society*, *Environmental History*, *Environmental Science and Policy*, German Academic Exchange Service, *Global Environment*, Harvard University Press, *Historical Studies in the Natural Sciences*, *Histories*, *History of Meteorology*, *History of Political Economy*, *Imago Mundi*, *Isis*, *Journal of American History*, *Journal of Transport History*, National Science Foundation, *Nature+Culture*, Oxford University Press, *Perspectives on Science*, *Science as Culture*, *Science in Context*, *Social Studies of Science*, *Studies in History and Philosophy of Biological and Biomedical Sciences*, *Studies in History and Philosophy of Science*, *Transactions of the Institute of British Geographers*, University of Chicago Press, University of Pittsburgh Press, and *Western Historical Quarterly*.

## **Conference Session Chair or Commentator**

Have served as session chair or commentator at a variety of conferences, including the Agricultural History Society, American Society for Environmental History, Arizona History Convention, History of Science Society, Society for the History of Technology, and Western History Association.

## **PROFESSIONAL AFFILIATIONS**

Agricultural History Society

American Society for Environmental History

History of Science Society

Society for Historians of the Gilded Age and Progressive Era

Society for the History of Technology

Western History Association

## **FELLOWSHIPS AND AWARDS**

Philip J. Pauly Prize for Best First Book on the History of Science in the Americas, 2018

General Education Development Grant, College of Social and Behavioral Sciences, 2016

Junior Faculty Research Development Fellowship, University of Arizona, 2012

Majewski Fellowship, American Heritage Center, Laramie, Wyoming, 2011

Honors College Course Development Grant, University of Arizona, 2010

Middle East Studies Program, Course Development Grant, Dickinson College, 2008

Postdoctoral Fellowship, Max Planck Institute for the History of Science, 2005-06

William Penn Fellowship, 1999

Rhodes Scholarship, 1997

National Science Foundation Graduate Research Fellowship, 1997

## **TEACHING EXPERIENCE**

### **University of Arizona, 2010-Present**

*Graduate Colloquium: American Science, Technology, and Medicine*

*Senior Capstone: Food, Health, and the Environment*

*Topics in U.S. History: Science and the Environment in History*

*Graduate Colloquium: Science, Technology, and Health in Global/Comp Perspective*

*U.S. History, 1876-1919: The Gilded Age and Progressive Era*

*History of American Capitalism*

*Topics in U.S. History: Food in American History*

*Nature and Technology in U.S. History*

*Graduate Research Seminar: Western, Environmental, Science, and Technology History*

*Western America: Law and Order, 1785-1915*

*Senior Capstone: History of National Parks*

*U.S. Civil War and Reconstruction*

*The Making of American Cultures, 1600-1877*

*Graduate Colloquium: Class and Capitalism in U.S. History*

*Food, Health, and Environment in History*

*World History, 1600-2000*

*Graduate Colloquium: Teaching U.S. History*

*The Era of the American Revolution*

*Indians in U.S. History*

*Senior Capstone: The 1970s*

*U.S. Society and Institutions since 1877*

*The Early Republic: U.S. from Constitution to Civil War*

*Vietnam and the Cold War*

*Senior Capstone: Violence in the American West*

*Senior Capstone: History of Capitalism*

*Graduate Colloquium: Environment, Health/Medicine, Science, Technology, U.S. History*

*Health and Medicine in Global History*

**Dickinson College, 2007-2010**

*First-Year Seminar*

*History of Science*

*Global Environmental History*

*American Environmental History*

*The American West*

*Natural Disasters in History*

*American Science, Technology, and Medicine*

*Introduction to Historical Methodology*

*Historiography and Advanced Methodology*

*Food and Sustainability*



*Energy in History*

*U.S. History since 1877*

**Graduate Student Instructor, University of Pennsylvania, 2001-2005**

*Introduction to the History of Science, Technology, and Medicine*

*History of American Science*

*Technological Change in Developing Nations*

*The Scientific Revolution*

*Science and the Environment*

**WATU (Writing Across the University) Advisor, University of Pennsylvania, 2000**

*Science and Social Problems* (with Dr. Henrika Kuklick)

**INSTITUTIONAL SERVICE**

**University of Arizona**

University of Arizona, Chair of University-Wide General Education Committee  
Fall 2023-Present

University of Arizona, Undergraduate Council  
Fall 2023-Present

University of Arizona, Faculty Senate Executive Committee  
Fall 2023-Present

University of Arizona, University Council for Assessment  
Fall 2023-Present

History Department, Awards Committee  
Fall 2022-Present

History Department, President's Postdoctoral Fellowship Review Committee  
Fall 2023-Spring 2024, Fall 2022

University of Arizona, General Faculty Committee on Donor Influence  
Spring 2023-Fall 2023

University of Arizona, General Education Civics/American Institutions Task Force

Spring 2022-Spring 2023

University of Arizona, General Education Committee

Fall 2021-Summer 2022 (ad hoc member), Fall 2022-Summer 2023 (regular member)

History Department, Strategic Priorities Faculty Initiative Ad Hoc Committee

Fall 2023

History Department, Ad Hoc Committee on Graduate Program

Spring 2023

Arizona General Education Curriculum, Criteria Group for American Institutions

Fall 2022

History Department, Track Transfer Review Committee, Dr. Michelle Berry

Fall 2022

History Department, Director of Undergraduate Studies

Fall 2017-Spring 2022

College of Social and Behavioral Sciences, Undergraduate Council

Fall 2017-Spring 2022

History Department, Graduate Committee

Fall 2018-Spring 2022

Proposals Submitted for New General Education Curriculum

HIST 246, History of American Capitalism, August 2021

HIST 150C3, U.S. Society and Institutions since 1877, September 2021

HIST 247, Nature and Technology in U.S. History, September 2021

HIST 211, Health and Medicine in Global History, March 2023

Campus Endorsement Committee, Rhodes-Marshall-Mitchell Scholarships

Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2020, Fall 2021

Co-Organizer, Political Economy Working Group

Fall 2018-Spring 2020

History Department, Library Representative

Spring 2013-Fall 2019

Promotion and Tenure Committee, Prof. Katie Hemphill

Summer-Fall 2019

Mock Interview Committee, Rhodes Scholarship Candidate

Fall 2018, Fall 2019

History Department, Academic Program Review Committee  
Spring 2018-Spring 2019

SBSRI (Social & Behavioral Sciences Research Institute) Advisory Board  
Spring 2016-Fall 2016, Fall 2017-Spring 2019

History Department, Curriculum Committee Member  
Fall 2011, Spring 2015-Fall 2016

History Department, Annual Performance Review Committee  
Spring 2015, Spring 2016

Organizer, History Department Honors Thesis Showcase  
Spring 2016

Ad Hoc Faculty Senate Task Force on Open Access  
Fall 2014-Spring 2016

American Studies Working Group  
Spring 2014

Internal Student Travel Grant Reviewer, Institute of the Environment  
Spring 2014

U.S. History Search Committee  
Fall 2013-Spring 2014

Carson Scholar Selection Committee  
Spring 2013

Internal IGERT Pre-Proposal Grant Reviewer  
Spring 2013

History Department, Internship Coordinator  
Fall 2012-Spring 2013

Secretary, History Department Faculty Meetings  
Fall 2011

Honors Paladins, History Research Mentorship/Demonstration  
Fall 2011

Departmental Representative, SBS Grade Appeals Committee  
Spring 2011

Organizer, Environmental History Hiking Group  
Fall 2010-Present

Affiliated Faculty Member, Institute of the Environment/Arizona Institute for Resilience  
Fall 2010-Present

Affiliated Faculty Member, Environmental Studies  
Fall 2014-Present

Affiliated Faculty Member, Food Studies  
Fall 2017-Present

Faculty Mentor, College of Social and Behavioral Sciences  
Fall 2018-Present

Member of Proposed GIDP in Science Policy and Diplomacy  
Spring 2021-Present

### **Dickinson College**

Co-Organizer, Sustainability in the Liberal Arts Discussion Group (Spring 2010)

Clarke Forum (campus speaker series) Steering Committee (2009-2010)

Dickinson College Representative, Michaux/South Mountain Speakers (regional/community lectures) Steering Committee (2009-2010)

Faculty Representative, Socially Responsible Investing Discussion Group (Fall 2009)

Faculty Representative, Serve the World Trip to Guatemala (January 2009)

Faculty Advisor, Food Sustainability Committee (2008-2010)

Organizer and Participant in Two First-Year Environmental and Sustainability Course Clusters (Environmental Change and Human Decisions, with colleagues in Economics, Environmental Science, and Computer Science; Science and Sustainability, with colleagues in Geology and Environmental Science)

Co-Facilitator and Planning Committee Member for the Valley and Ridge Project, a summer faculty workshop on incorporating environmental and sustainability issues across the curriculum (held in May 2008)

Search Committee for Director of Center for Environmental and Sustainability Education (Spring 2008)

Shared Futures Institute (curriculum development, part of 6-person team representing Dickinson College), Sonoma State University, California (Summer 2007)

Environment and Sustainability Task Force & Steering Committee (Spring 2007-2008)

Member, Awards Advising Committee (2007-2010)

Faculty Representative, Udall Fellowship (2007-2010)

## **SERVICE ON GRADUATE COMMITTEES**

### **Ph.D. (\*Major Advisor or Co-Advisor)**

Johanne Harrigan (History), 2023-Present

James Paules (History), 2023-Present

\*Zelin Pei (History), 2022-Present

Derwin Begay (American Indian Studies), 2022-Present

\*Mariel Watt (History), 2021-Present

Reed Battles (History), 2020-2021

Don Unger (History), 2020-Present

Claire Perrott (History), 2019-2020

Alex Nuñez (History), 2019-Present

Bob McMicken (History), 2019-Present

Peter Ore (Sociology), 2018-2023

Kara Jo Wilson (American Indian Studies), 2017-2019

Emma Lawlor (Geography), 2017-2018

Amado Guzman (History), 2016-Present

\*Frank Whitehead (History), 2015-2021

Lora Key (History), 2015

Karen Lloyd D'Onofrio (University of Colorado-Boulder, History), 2014-2017

\*Marcus Hernandez (History), 2012-2019

Ian Draves (History), 2012-2017

Joseph Bickley (History), 2012-2015

Alex Schweig (History), 2012-2013

Tai Johnson (History), 2011-2016

Marcus Burtner (History), 2011-2012

Megan Prins (History), 2010-2015

**M.A. (\*Major Advisor)**

Kit Johnson (History), 2023-Present

Stephanie Brown (History), 2023

Zane Rossi (History), 2022-2024

Audrey Lopez (History), 2022

Haseung Chung (History), 2021-2022

\*Georges Chavez (History), 2021-2022

Patrick Angiulo (History), 2020-2021

Conor Villines (Journalism), 2020-2021

\*Mariel Watt (History), 2019-2021

\*Matt Gasser (History), 2018-2019

Ashley Wunder (History), 2018-2019

\*Daniel Hernandez (History), 2017-2019

James Ramsey (History), 2014-2017

\*Ben Flores (History), 2015-2016

\*Taylor Hermsen (History), 2014-2015

Robert Hood (History), 2014-2015

\*Gurusimlan Khalsa (History), 2013

\*Terry Reed (History), 2013-2014

\*Alexandra Ritter (History), 2013-2014

Matthew King (History), 2013

\*Frank Whitehead (History), 2011-2013

Neal Barnett (History), 2011

Elizabeth Shipley (History), 2011

### **HONORS THESIS DIRECTOR**

#### **University of Arizona**

\*Hyunjay Cho (2022-2023)

\*Dana Fischer (2015-2016)

\*Emily Burton (2013-2014)

\*Thomas Hart (2011-2012)

#### **Dickinson College**

\*Alexis Lockwell

\*Caroline Radesky

### **OTHER UNDERGRADUATE RESEARCH PROJECTS**

#### **University of Arizona**

\*Christina Marikos (Spring 2023-Fall 2023, Independent Study)

\*Luke Butt (Summer 2023, McNair Achievement Program)

### **PUBLIC OUTREACH AND LOCAL PRESENTATIONS (selected)**

Roundtable participant at Conference for Graduate Scholarship on Power, Adversity, and Networks, University of Arizona, Tucson, April 2022

Opening Presenter for University of Arizona Debate Series, on history of antitrust law and big business, January 2021

Amphitheater High School, Tucson, Ariz., September 2018 (two guest presentations)

Panelist for Public Forum on “Dark Money, Charles Koch, and the University of Arizona Freedom Center,” University of Arizona, Tucson, April 2018

Hard-Science SF Writers Group, Tucson, Ariz., February 2018

Phi Alpha Theta, History Honorary Society, Guest Presenter, September 2017

Science Café, Tucson Festival of Books, March 2017

Research Insights in Semiarid Ecosystems (RISE) Symposium, University of Arizona, October 2015

Presentation at Art-Environment Network, University of Arizona, Tucson, February 2015

Osher Lifelong Learning Institute-University of Arizona, Green Valley, Fall 2013

Tumamoc Hill Field Station, University of Arizona, Tucson, September 2013: “Desert Science and Mountain Science: Field Stations in the Early 20th-Century American West”

Majewski Lecture, American Heritage Center, Laramie Wyo., September 2011: “Capitalist Nature: The Sciences of Development in the American West, 1860-1920”

Environmental Breakfast Club, University of Arizona, Tucson, September 2011: “Expertise, ‘Epistemic Rift’ and Environmental Knowledge in Mining and Agriculture in the U.S. Great Plains and Rocky Mountains”

School of Geography and Development, University of Arizona, Tucson, April 2011: “Capitalist Nature: The Sciences of Development in the American West, 1860-1920”

Economics, Law, Environment, and Governance Workshop, University of Arizona, Tucson, April 2011: “Capitalizing Nature: Land Development, Classification, and Soil Knowledge in the U.S. Great Plains, 1900-1920”

## **EDUCATION (full details)**

### **Ph.D., History and Sociology of Science, University of Pennsylvania, 2005**

Dissertation: *“The Regional Development of Science: Knowledge, Environment, and Field Work in the U.S. Central Plains and Rocky Mountains, 1860-1920”*



Advisors: Robert E. Kohler and Henrika Kuklick

Exam Fields: United States History, History of Science, History of Technology, and Environmental History

**M.A., History and Sociology of Science, University of Pennsylvania, 2001**

**M.Sc., Human Biology (distinction), University of Oxford, 1999**

Thesis: *“The Cultural Mediation of Gene Frequencies during the Neolithic Transition in Europe”*

Advisor: John Odling-Smee

**M.Phil., Economic and Social History (distinction), University of Oxford, 1999**

Thesis: *“‘Contemplating Man under All His Varied Aspects’: The Anthropological Work of Alfred Russel Wallace, 1843-70”*

Advisor: Paul Weindling

**B.A., (highest distinction) University of Nebraska, Lincoln, 1997**

Major Fields: History, Philosophy, Physics, Political Science, Economics, Psychology, and Anthropology

Minor Fields: Biological Sciences, Mathematics, and Ethnic Studies

Honors Thesis: *“From the Natural to the Social Sciences: Some Influences of the Twentieth-Century Revolution in Physics on Psychology and Economics”*

Honor Thesis Advisor: David Cahan