

Jason A. Heppler, PhD

—
Digital Engagement Librarian
University of Nebraska at Omaha Libraries
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SHORT BIO

I am a researcher and designer specializing in environmental history, sustainability, and the exploration, visualization, and transformation of data.

I have participated in several internationally renowned data-driven design and research projects, including Palladio, Geography of the Post, and Chinese Deathscape. I have been involved in consulting and teaching activities at public and private institutions, such as Stanford University, Colorado State University, George Mason University, the American Historical Association, the University of Nebraska, and Mozilla. My work has been featured in numerous venues and publications.

I obtained a BA in History and Economics at South Dakota State University and an MA and PhD in History at the University of Nebraska-Lincoln. My research focuses on environmental data visualization and interfaces to support academic and industry needs. From 2013 to 2016, I was the Academic Technology Specialist at Stanford University, within the Stanford University libraries, the Center for Spatial and Textual Analysis (CESTA), and the Department of History. I joined the University of Nebraska at Omaha as the Digital Engagement Librarian in 2017.

In 2017 I co-founded, with Brandon Locke and Sarah Melton, Endangered Data Week, which exists to create a culture of data consciousness for technologists, librarians, journalists, citizen scientists, and others.

Positions

January 2017–present

Digital Engagement Librarian, University of Nebraska at Omaha Libraries (Omaha, Nebr.)

Assistant Professor of History (by courtesy), University of Nebraska at Omaha (Omaha, Nebr.)

Sustainability Faculty, Sustainability Minor Program, University of Nebraska at Omaha (Omaha, Nebr.)

March 2017–present

Co-founder and organizer, Endangered Data Week (Remote)

January 2013–December 2016

Academic Technology Specialist, Department of History and Center for Interdisciplinary Digital Research (CIDR), Stanford University (Stanford, Calif.)

Research Staff, Center for Spatial and Textual Analysis (CESTA), Stanford University (Stanford, Calif.)

Lecturer, Department of History, Stanford University (Stanford, Calif.)

Major Affiliations and Fellowships

Member, Environmental History Action Collaborative Working Group, Environmental Data & Governance Initiative (2020–present)

Mentor, Open Leadership Program, Mozilla Foundation (2018–present)

Affiliate Scholar, Humanities+Design, Stanford University (2017–present)

Editorial Appointments

Editorial Board, Studies in Midwestern History, Midwestern History Association (2017–present)

Editorial Board, The Middle West Review, University of Nebraska Press (2014–present)

Digital Content Advisory Board, The American Yawp (2014–present)

Areas of Research and Teaching

North American West · Twentieth-century United States · Digital History/Humanities · Environmental History
· Political History · Data Visualization · Computational History

Education

PhD, History, University of Nebraska-Lincoln (2016)

Dissertation: “Machines in the Valley: Community, Urban Change, and Environmental Politics in Silicon Valley, 1945–1990”

Committee: Patrick Jones (chair), William G. Thomas, Margaret Jacobs, James Garza, Stephen Ramsay
Examination Fields: North American West with Douglas Seefeldt, United States History 1776–2008 with Thomas Borstelmann, Modern Latin America with James Garza

MA, History, University of Nebraska-Lincoln (2009)

Thesis: “Framing Red Power: The Trail of Broken Treaties, the American Indian Movement, and the Politics of Media”

Committee: John Wunder (chair), Douglas Seefeldt, Thomas Gannon

BA, History, South Dakota State University (2007)

Thesis: “‘We Lit a Fire Across Indian Country’: The American Indian Movement and the Intellectual Origins of Red Power”

Minor: Economics

Research

Books

Suburban by Nature: Silicon Valley and the Transformation of American Environmental Politics. Environment in Modern North America series. Norman: University of Oklahoma Press, under contract.

Digital Community Engagement: Partnering Communities with the Academy. Co-editor with Rebecca Wingo and Paul Schaudewald. Cincinnati: University of Cincinnati Press, 2020.

California Rising: A New Urban History. Co-editor with Lindsey Wieck. Lincoln: University of Nebraska Press, under contract.

Journal Articles

Heidi Blackburn and Jason A. Heppler, “Who is Writing about Women in STEM in Higher Education? A Citation Analysis of Gendered Authorship,” *Frontiers in Psychology* 10 (2020). <https://doi.org/10.3389/fpsyg.2019.02979>

Heidi Blackburn and Jason A. Heppler, “Women in STEM in Higher Education: A Citation Analysis of the Current Literature,” *Science & Technology Libraries* (2019). <https://doi.org/10.1080/0194262X.2019.1645080>

Brandon Locke and Jason A. Heppler, “Teaching Data Literacy for Civic Engagement: Resources for Data Capture and Organization,” *KULA: Knowledge Creation, Dissemination, and Preservation Studies* 2 (1) (Fall 2018). <https://doi.org/10.5334/kula.23>

“Green Dreams, Toxic Legacies: Toward a Digital Political Ecology of Silicon Valley,” *International Journal of Humanities and Arts Computing* vol. 11, no. 1 (March 2017): 68–85. <https://doi.org/10.3366/ijhac.2017.0179>

Gabriel Wolfenstein and Jason A. Heppler, “Crowdsourcing Public Digital History,” *The American Historian*, March 2015.

Alex Galarza, Douglas Seefeldt, and Jason A. Heppler, “A Call to Redefine Historical Scholarship in the Digital Turn,” *Journal of Digital Humanities*, December 2012.

Book Chapters

“Creating Capacity for Research Data Services at Regional Universities: A Case Study,” co-author with Omer Farooq and Kate Ehrig-Page in *Teaching Research Data management*, ed. Julia Bauder, forthcoming.

“Humanistic Approaches to Data Visualization,” in *The Companion to Digital History*, ed. David Staley. Hoboken: Wiley and Sons, forthcoming.

“A National Monument,” co-author with Douglas Seefeldt, in *The Companion to Custer and the Little Big Horn*, edited by Brad Lookingbill. Hoboken: Wiley and Sons, 2015.

“The American Indian Movement and South Dakota Politics,” in *The Plains Political Tradition*, edited by Jon Lauck, John E. Miller, and Donald Simmons. Pierre, SD: South Dakota State Historical Society Press, 2011, 267–287.

Other Academic Publications

“Advocacy, Training, and Awareness Through Endangered Data Week,” co-author with Brandon Locke, Sarah Melton, and Rachel Mattson, *Parameters*, SSRC, February 26, 2018. <https://items.ssrc.org/author/jason-a-heppler/>

Arguing with Digital History working group, “Digital History and Argument,” white paper, Roy Rosenzweig Center for History and New Media, George Mason University, November 13, 2017: <http://rrchnm.org/argument-white-paper/>.

Select Media Publications & Interviews

“How Silicon Valley provides the blueprint for cleaning up our drinking water,” *The Washington Post*, April 26, 2019.

“How Silicon Valley Industry Polluted the Sylvan California Dream,” *The Conversation*, November 15, 2017.

Electronic Books

The Rubyist Historian: Ruby Fundamentals for Humanities Scholars. DOI: 10.5281/zenodo.9987.

Digital

Machines in the Valley: Growth, Conflict, and Environmental Politics in Silicon Valley, digital history, 2015–2017.

Research Director, American Indian Digital History Project, digital history, 2017–present

Project Manager, William F. Cody Archive, Center for Digital Research in the Humanities, University of Nebraska-Lincoln, 2011–2013.

“Self-sustaining and a good citizen”: William F. Cody and the Progressive Wild West, digital history, Cody Studies, Buffalo Bill Center of the West, 2012.

Project Developer and Contributor, The Buffalo Bill Project, Department of History, University of Nebraska-Lincoln, 2011–2013 (retired and superseded by Cody Studies).

Buffalo Bill’s Wild West and the Progressive Image of American Indians, digital history, 2010–2011 (retired and superseded by William F. Cody and the Progressive Wild West).

Graduate Digital Editor, *The Papers of William F. Cody*, Buffalo Bill Historical Center, 2009–2010.

Framing Red Power: The Trail of Broken Treaties, the American Indian Movement, and the Politics of Media, digital history, 2008–2009.

Contributions to Publications

Author, JasonHeppler.org, 2008–present.

Contributor, BlogWest, 2013–present.

Contributor, Digital Frontiers: A WHA Digital Workshop, 2010–2015.

Contributor, ProfHacker, 2012–2013.

Contributor, GradHacker, 2012.

Contributor, Doing Digital History, 2009–2010.

Media

Co-host, Overanalyze, podcast, with Andy Wilson, 2016–2017.

Co-founder, FiddlyFM, 2015–2017.

Co-host, The First Draft Podcast, with Elijah Meeks and Paul Zenke, 2014–2016.

Reviews

Review essay, “Mobile Digital Public History,” in *International Public History* (forthcoming).

Review of Trevor Owens, *The Theory and Craft of Digital Preservation* (Johns Hopkins University Press), in *The Public Historian* (forthcoming).

Review of Walter Nugent, *Color Coded: Party Politics in the American West, 1950-2016* (University of Oklahoma Press), in *South Dakota History* (forthcoming).

Review of Pamela Riney-Kehrberg, *The Nature of Childhood: An Environmental History of Growing Up in America since 1865* (University Press of Kansas), in *Middle West Review* (Spring 2019). <https://doi.org/10.1353/mwr.2019.0030>

Review of Andrew Busch, *City in a Garden: Environmental Transformations and Racial Justice in Twentieth-Century Austin* (University of North Carolina Press), in *Environmental History* (Fall 2018). <https://doi.org/10.1093/envhis/emy067>

Digital history review of *Mapping Inequality: Redlining in New Deal America and Renewing Inequality: Family Displacements through Urban Renewal*, in *American Panorama: An Atlas of United States History* (University of Richmond), in *American Quarterly* (Fall 2018). <http://doi.org/10.1353/aq.2018.0058>

Digital history review of Jay Taylor, *Follow the Money: A Spatial History of In-Lieu Programs for Western Federal Lands* (Stanford Spatial History Project), in *Western Historical Quarterly* (Fall 2018). <https://doi.org/10.1093/whq/why049>

Digital history review of *American Panorama: An Atlas of United States History* (University of Richmond), in *Journal of American History* (March 2017). <https://doi.org/10.1093/jahist/jaw624>

Digital history review of *North Dakota: People Living on the Land* (State Historical Society of North Dakota), in *The Public Historian* (May 2017). <https://doi.org/10.1525/tpb.2017.39.2.104>

Review of Bradley Shreve, *Red Power Rising: The National Indian Youth Council and the Origins of Native Activism* (University of Oklahoma Press), in *South Dakota History* (Spring 2012).

Digital tool review, “Google Earth for Historians,” in *The Digital History Project* (Summer 2010).

Review of Joseph Trimbach, *American Indian Mafia: An FBI Agent’s True Story about Wounded Knee, Leonard Peltier, and the American Indian Movement* (Outskirts Press), in *South Dakota History* (Spring 2009).

Digital tool review, “TokenX as a Historical Research Tool,” with Brent M. Rogers, in *The Digital History Project* (July 2009).

Review of Akim Reinhardt, *Ruling Pine Ridge: Oglala Lakota Politics from the IRA to Wounded Knee*, in *South Dakota History*, (Summer 2008).

Digital history review of William G. Thomas et al., “The Countryside Transformed: The Eastern Shore of

Virginia, the Pennsylvania Railroad, and the Creation of the Modern Landscape,” in The Digital History Project (February 2008).

In Progress

- A journal article co-authored with Michael Childers on the Earth First! movement using computational text analysis techniques to analyze the Earth First! newsletters.

Public History and Public Humanities Experience

Primary investigator and director, Nebraska Historical (2018–present). An online spatial exhibit on the history of Nebraska.

Research director, American Indian Digital History Project (2016–present). An Omeka exhibit of material on American Indian history. Served as a technical advisor in deciding on and setting up technical infrastructure, metadata design, and document digitization. Primary investigator: Kent Blansett.

Technical lead, Chinese Railroad Workers in North America, Stanford University (2013–2016). Served as a technical advisor and developer for a metadata management system, helped organized and curate nearly 10,000 digitized objects, and trained sixteen research assistants on metadata best practices and the platform used for collecting metadata. Primary investigators: Gordon Chang and Shelley Fischer Fishkin.

Project manager, William F. Cody Archive, Center for Digital Research in the Humanities, University of Nebraska-Lincoln (2011–2013). Supervised two graduate student interns, maintained documentation on project milestones and reference material, worked closely with museum staff at the Buffalo Bill Center for the West, and helped organize nearly 24,000 digitized documents.

Museum aide, South Dakota Art Museum, South Dakota State University (2006–2007). Worked with museum curator in preparing exhibits, maintaining an inventory of museum objects, and interacting with museum patrons.

Community Outreach and Engagement

Consultant, Making Invisible Histories Visible, Omaha, Nebraska (2017–present). This program invites twenty-four high school freshmen from Omaha Public Schools to take part in a summer program focused on the history of their city. I serve as a consultant primarily on mapping and digitally-interactive aspects of the projects produced in the program.

Project Lead, Puerto Rico Hurricane Relief Mapathon, Omaha, Nebraska (2017). I planned and hosted a mapathon to help with Puerto Rico disaster relief, organizing an open source mapping session to provide data to the Red Cross through OpenStreetMap.

Organizer and Project Lead, Mozilla Global Sprint 2017, Omaha, Nebraska (2017). I coordinated and hosted Global Sprint 2017 to bring together scientists, educators, artists, engineers, and others to hack and build projects for a healthy internet. We focused our project around Open Omaha.

Project Lead and Manager, Mobile Digitization for Rural Community Archives, Omaha, Nebraska (2017–present). With a grant from the LYRASIS Catalyst Fund, we initiated a pilot program for a mobile digitization lab and maker space for working with rural community archives and Tribal colleges.

Founding Member and Project Lead, Endangered Data Week, Omaha, Nebraska (2017–present). Helped organize the first international Endangered Data Week, a collaborative effort among campuses, nonprofits, libraries, citizen science initiatives, and cultural heritage institutions. EDW is designed to shed light on public datasets that are in danger of being deleted, repressed, mishandled, or lost. Our sponsors included the Digital Library Federation and their Records Transparency and Accountability Interest Group, the Council on Library and Information Resources, the National Digital Stewardship Alliance, Data Refuge, and the Mozilla Science Lab.

Presenter, Information Exchange, Omaha, Nebraska (2017). An event devoted to helping communities locate and strategize methods to provide better access to information, generate ideas about what libraries are and how knowledge can be shared within a community to improve the lives of its citizens.

Consulting scholar, Santa Clara Valley National Heritage Area (2016–2017). Research historian helping aid the pursuit of the National Park Service designation for recognizing Silicon Valley as a National Heritage Area (NHA), only the second such site in California.

Invited Talks and Presentations

“Visualizing Data in the Liberal Arts,” Colorado State University, April 4, 2019, Fort Collins, Colorado.

Panel, “Shaping the Digital Humanities: UNL Alumni,” Digital Humanities Forum, University of Nebraska-Lincoln, April 2018, Lincoln, Nebraska.

Keynote address, “Approaching a New Historical Atlas of Midwestern History with Deep Maps and Digital History” Midwestern History Association, June 2017, Grand Rapids, Michigan.

“Don’t Let Industry Do its Business In Our Water!!!”: Urban Space and Environmental Politics in Silicon Valley,” Ball State University, April 2017, Muncie, Indiana.

Talkback, The Man Who Shot Liberty Valance, Omaha Community Playhouse, February 2017, Omaha, Nebraska.

“Doing Digital History in the Classroom,” Missouri Valley History Conference, March 2015, Omaha, Nebraska.

“Humanistic Approaches to Data Visualization,” d3.digitalhumanities() Meetup, January 2015, San Francisco, California.

Teaching with Technology, Nebraska Wesleyan University, June 2012, Lincoln, Nebraska.

History Club Graduate School Symposium, South Dakota State University, October 2007, Brookings, South Dakota.

Media Appearances

“Alternative Academic Careers,” GradHacker Podcast, February 2013.

Conference Papers, Talks, and Workshops

Papers Presented

“Using data visualization to analyze topic development by business communication students in a one-shot setting,” Brick & Click: An Academic Library Conference, November 2019, Maryville, MO.

“A citation analysis of journals publishing research on women in STEM in higher education,” American Library Association Annual Conference, June 2019, Washington, D.C.

“Creating a Culture of Data Consciousness with Endangered Data Week,” Mozilla Festival, October 2018, London, United Kingdom.

“Piecemeal, Patchwork, Prop-Up’: Urban Planning and Environmental Change in Postwar Silicon Valley,” at “You Are Here”: An Interdisciplinary Conference on Place, Space, and Embodiment, Creighton University, March 2018, Omaha, Nebraska.

“The Tap Water Rebellion: Pollution, High-Tech Industrialization, and Suburban Politics in Silicon Valley,” at the American Society for Environmental History, March 2018, Riverside, California (did not attend).

“Oskate Wicasa, Progressive Thought, and the Digital Publics of Buffalo Bill’s Wild West,” 57th Annual Western Historical Association, November 2017, San Diego, California.

“Introducing the American Indian Digital History Project,” at the 57th Annual Western Historical Association, November 2017, San Diego, California.

“Mobile Rural Archives Lab,” LYRASIS Member Summit, October 2017, Philadelphia, Pennsylvania.

“Mapping Silicon Valley” Digital Humanities 2017, August 2017, Montreal, Canada.

“Digital History, Publics, and Community Engagement,” Information Exchange, March 2017, Omaha, Nebraska.

“Green Dreams, Toxic Legacies: Digital History and the Landscapes of Silicon Valley,” Annual Meeting of the American Society for Environmental History, March 2016, Seattle, Washington (did not attend).

“From the Laptop to the Archive: Managing Research Data in the Humanities,” October 2015, Digital Library Federation Forum, October 2015, Vancouver, British Columbia, Canada.

“Mapping Silicon Valley’s Environment: Deep Maps and Urban Environmental History” 55th Annual Conference of the Western History Association, October 2015, Portland, Oregon.

“Minimal Computing in Digital Humanities,” Academic Technology Expo, Stanford University, October 2015.

“Networks in the Humanities,” lighting talk, with Brian Sarnacki, Rebecca Wingo, and Andy Wilson, HASTAC, May 2015.

“Mapping the American West through the U.S. Post,” Social Science History Association Annual Meeting, November 2014, Toronto, Canada.

“Digital Humanities in the Classroom,” Academic Technology Expo, Stanford University, October 2014, Stanford, California.

“Spatial History and the Western Past,” Six Shooters Lighting Talk, 53rd Annual Conference of the Western History Association, October 2013, Tucson, Arizona.

“Programming in the Humanities,” proposed and led session, THATCamp American Historical Association, January 2012, Chicago, Illinois.

“The American Indian Movement and South Dakota Politics,” George McGovern Conference, November 2011, George McGovern Center for Leadership and Public Service, Mitchell, South Dakota.

“‘This Great and Sovereign Right’: Eminent Domain, the Cherokee Nation, and Railroad Law, 1880–1890,” 50th Annual Conference of the Western History Association, October 2010, Incline Village, Nevada.

“William F. Cody and the Digital Frontier,” International Cody Studies Conference, August 2010, Cody, Wyoming.

“Framing Red Power: Newspapers and Native Activists during the Trail of Broken Treaties,” Digital Humanities Summit, March 2010, Lawrence, Kansas.

“‘Another Wounded Knee Was Feared’: Visualizing Newspaper Narratives of the Trail of Broken Treaties Caravan and American Indian Activism with Digital Tools,” 53rd Annual Missouri Valley History Conference, March 2010, Omaha, Nebraska.

“Red Power and the Intellectual Origins of the American Indian Movement,” 50th Annual Missouri Valley History Conference, March 2007, Omaha, Nebraska.

“Tangled Memories: Wounded Knee and the Problem of Memory,” 41st Annual Northern Great Plains History Conference, October 2006, Sioux Falls, South Dakota.

“Tangled Memories: Wounded Knee and the Problem of Memory,” 38th Annual Dakota History Conference, Sioux Falls, South Dakota.

“Case Study of the Makah Tribe’s Defense of Whaling Rights,” 14th Annual SDSU American Indian History and Culture Conference, Brookings, South Dakota.

Chair/Comment

Chair, “Six Shooters: Digital History Lightning Talks,” Annual Conference of the Western History Association, October 2017, November 2018, October 2019.

Chair and comment, “The Digital Second Crusade,” The Second Crusade: Chronicles and Perspectives Undergraduate Student Conference, University of Nebraska at Omaha, April 2017, Omaha, Nebraska.

Panel Comment, “Integrating Digital History into Research & Teaching: The American Experience in World War II,” Missouri Valley History Conference, March 2017, Omaha, Nebraska.

Panel chair, “Sources as Data: Opportunities and Challenges,” 131st Annual Meeting of the American Historical Association, January 2017, Denver, Colorado.

Panel chair, “Western Encounters, Alliances, and Experiences: Mormons, Indians, and U.S. Federal Law,” 54th Annual Conference of the Western History Association, October 2014, Newport Beach, California.

Discussion facilitator, “Breakout Session: Games and Learning,” Academic Technology Expo, Stanford University, October 2014, Stanford, California.

Panel chair, “Exploring Historic Landscapes with Mobile Technology,” 53rd Annual Conference of the Western History Association, October 2013, Tucson, Arizona.

Panel chair, Fourth Annual James A. Rawley Conference in the Humanities, University of Nebraska-Lincoln, April 2009.

Panel chair, Third Annual James A. Rawley Conference in the Humanities, University of Nebraska-Lincoln, April 2008.

Roundtables

“It’s a Gamble: Luck, Chance, and Failure as a Historian,” round table discussant, 59th Annual Conference of the Western History Association, October 2019, Las Vegas, Nevada.

“Passages from Quantitative History to Digital Humanities,” round table discussant, at the 133rd American Historical Association, January 2019, Chicago, Illinois.

“Arguing with Digital History,” roundtable discussant, at the 132nd American Historical Association, January 2018, Washington, D.C.

“Digital History Roundtable,” roundtable discussant, 150th Annual Meeting of the American Historical Association, January 2016, Atlanta, Georgia (did not attend).

“The Graduation Threshold: A Discussion on Bridging the Gap from Graduation to Employment,” co-organizer and roundtable discussant with Elaine Nelson, Leisl Carr-Childers, Sarah Keyes, and Elise Boxer, 55th Annual Conference of the Western History Association, October 2015, Portland, Oregon.

“Digital Scholarship, Academic Careers, and Tenure,” roundtable with Jana Remy, Andrew Torget, Mills Kelly, and Katina Rogers, 129th Annual Meeting of the American Historical Association, January 2015, New York City, New York.

“Digital Pedagogy for History: Lightning Round,” roundtable, 129th Annual Meeting of the American Historical Association, January 2015, New York City, New York.

“The Digital History Seminar,” round table, with Douglas Seefeldt, Brent Rogers, and Michelle Tiedje, 126th Annual Meeting of the American Historical Association, January 2012, Chicago, Illinois.

“Historical Scholarship in the Digital Age: Asking New Questions with Digital Technologies,” roundtable discussion, 51st Annual Conference of the Western Social Sciences Association, April 2009, Albuquerque, New Mexico.

“Sandoz’s Environment: Old Jules and ‘The Vine,’” roundtable, 5th Annual Mari Sandoz Heritage Society Conference, March 2008, Chadron, Nebraska.

Working Groups/Workshops

Attendee, Practicing Pedagogies Summer Teaching Summit, University of Nebraska-Lincoln, May 2020, Lincoln, Nebraska (virtual).

Attendee, Nebraska Library Association's College & University Section and Technical Services Round Table, May 2020, virtual.

Attendee, CSV Conf, May 2020, virtual.

Attendee, Innovation in Pedagogy and Technology Symposium, May 2020, Lincoln, Nebraska (virtual).

Attendee, Railroads in Native America: Reflections on the 150th Anniversary of the Transcontinental Construction, University of Nebraska at Omaha, September 2019, Omaha, Nebraska.

Attendee, Practicing Pedagogies Summer Teaching Summit, University of Nebraska-Lincoln, May 2019, Lincoln, Nebraska.

Attendee, Innovation in Pedagogy and Technology Symposium, May 2019, Lincoln, Nebraska.

Dynamic Digital Methods for Integrating Local History into Public History Institutions and the K-16 Classroom, one-day workshop given at the 58th Annual Western Historical Association, sponsored by the WHA Committee on Teaching and Public Education, St. Mary's University, October 2018, San Antonio, Texas.

Attendee, Practicing Pedagogies Summer Teaching Summit, University of Nebraska-Lincoln, May 2018, Lincoln, Nebraska.

Co-convenor, Digital Community Engagement Symposium, Macalester College, May 2018, St. Paul, Minnesota.

Networks and Network Visualization, one-day workshop given at the 132nd American Historical Association, January 2018, Washington, D.C.

"Arguing with Digital History," invited attendee for two-day workshop, Roy Rosenzweig Center for History and New Media, George Mason University, September 2017, Arlington, Virginia.

Attendee, Innovation in Pedagogy and Technology Symposium, May 2017, Lincoln, Nebraska.

Mapping and Network Analysis Workshop, Digital Scholarship Lab, Ball State University, April 12, 2017, Muncie, Indiana.

Attendee, Midwest Archives Conference, April 2017, Omaha, Nebraska.

Attendee, Digital Humanities Forum, University of Nebraska-Lincoln, April 2017, Lincoln, Nebraska.

Digital Drop-In Sessions, participant, 131st American Historical Association, January 2017, Denver, Colorado.

Attendee, Flat Places, Deep Identities: Mapping Nebraska and the Great Plains, Great Plains Symposium, March 2017, Lincoln, Nebraska.

Digital History Table Talks, round table discussant, 131st American Historical Association, January 2017, Denver, Colorado.

Networks and Network Visualization, one-day workshop given at the 131st American Historical Association, January 2017, Denver, Colorado.

Research Tools for your Thesis, one-day workshop taught at Stanford University for the Bing Honors College Program, September 2016, Stanford, California.

Digital Humanities Workshop, two-day workshop taught at Colorado State University for the Carl A. Bimson Humanities Seminar, July 26-27, 2016, Fort Collins, Colorado.

"Getting Started with Omeka," Digital Humanities Skills Workshop, Center for Spatial and Textual Analysis, Stanford University, January 2016, Stanford, California.

Data Preparation and Data Uncertainty, one-day workshop given at the 130th Annual Meeting of the American

Historical Association, January 2016, Atlanta, Georgia (did not attend).

Working group facilitator, “Public History as Digital History as Public History,” National Council on Public History Annual Meeting, Nashville, Tennessee, April 2015.

Attendee, mediaX Games and Learning Conference, Stanford University, May 2014, Stanford, California.

Digital History Workshop, Space, Materials, and Media Conference, Stanford University, September 2013.

Introduction to GIS, session co-leader with Katie McDonough, THATCamp Alt-Ac, University of California-Berkeley, Berkeley, California, October 2013.

Introduction to Gephi, workshop co-leader with Ryan Cordell, Digital Humanities Summer Institute, Victoria, British Columbia, June 2013.

Attendee, THATCamp American Historical Association, January 2012, Chicago, Illinois.

“Improving Writing in the Survey Course,” with William G. Thomas and Leslie Working, Teaching History Forum, Department of History, University of Nebraska-Lincoln, October 2009.

Posters

“Using Maps and Metadata to Teach the History of Silicon Valley,” Third Annual Academic Technology Expo, Stanford University, October 2016, Stanford, California.

Electronic poster session, “Mapping Silicon Valley’s Environmentalism,” 130th Annual Meeting of the American Historical Association, January 2016, Atlanta, Georgia. (did not attend)

“The William F. Cody Archive,” electronic poster session, Center for Great Plains Studies Symposium, March 2012, Lincoln, Nebraska.

Grants and Fellowships

External (\$42,650)

Public Engagement with Historical Records, National Historical Publications & Records Commission, National Archives, not awarded.

Toward an Open Monograph Ecosystem (TOME), 2019, awarded, \$15,000.

Humanities Nebraska Grant, American Indian Digital History Project, 2019, not awarded.

Library of Congress Teaching with Primary Sources Grant, 2018, awarded, \$19,750.

“Mobile Archives for Rural Communities,” LYRASIS Catalyst Fund, University of Nebraska at Omaha, 2017, awarded, \$5,500.

Digital Humanities Summer Institute Tuition Scholarship, University of Victoria, British Columbia, Canada, 2014, awarded, \$800.

Digital Humanities Summer Institute Tuition Scholarship, University of Victoria, British Columbia, Canada, 2013, awarded, \$800.

Nebraska Humanities Council Mini Grant, James A. Rawley Conference, University of Nebraska-Lincoln, 2010, awarded, \$800.

Internal (\$9,105)

Civic Participation Project, University of Nebraska at Omaha, 2020, \$1,000.

Eugene and Sunny Thomas Fund, University of Nebraska at Omaha Libraries, University of Nebraska at Omaha, 2018, \$5,500.

Faculty Research Grant, Charles W. & Mary Caldwell Martin Fund, University of Nebraska at Omaha, 2017, \$725.

Office of International Affairs Seed Grant, Stanford University, 2014, not awarded.

John F. Stover Fellowship, Department of History, University of Nebraska-Lincoln, 2012, awarded, \$400.

Plains Humanities Alliance Grant, James A. Rawley Conference, University of Nebraska-Lincoln, 2010, awarded, \$500.

Sheldon Travel Fund Award, Department of History, University of Nebraska-Lincoln, 2010, awarded, \$600.

Sheldon Fund Award, Department of History, University of Nebraska-Lincoln, 2010, awarded, \$380.

Addison E. Sheldon Fellowship, Department of History, University of Nebraska-Lincoln, 2009, funded.

August Edgren Fellowship, College of Arts and Sciences, University of Nebraska-Lincoln, 2007, funded.

Awards and Honors

- External Funding Award Recipient and First Time Award, First Annual Faculty Research Awards, Office of Research and Creative Activity, University of Nebraska at Omaha, February 2018.
- University Libraries Influence Award, University of Nebraska-Lincoln Libraries, 2011.
- Dov Ospovat Memorial Award for Distinguished Graduate Research Paper, University of Nebraska-Lincoln, 2009.
- Schultz-Werth Award for Outstanding Undergraduate Research Paper, South Dakota State University, 2007.
- Phi Alpha Theta Honor Society, South Dakota State University, 2005–2007.

Professional Development

Elements of AI, University of Helsinki. Completed 2020.

*How do we respond to anti-Black racism in urbanist practices and conversations?," Canadian Urban Institute, June 10, 2020.

Keep Teaching Summer Series, Office of Digital Learning, University of Nebraska at Omaha, weekly webinar series, June 24–August 4, 2020.

COVID-19 Contact Tracing, Johns Hopkins University, via Coursera. Completed 2020.

Python for Data Science, University of California-San Diego, via edX. Completed 2020.

Research Data Management and Sharing, The University of North Carolina at Chapel Hill, via Coursera. Completed 2020.

Norwegian for Beginners I, Norwegian University of Science and Technology (NTNU), via Future Learn. Completed 2020.

Introduction to Norwegian, University of Oslo (UiO), via Future Learn. Completed 2020.

“Text Mining with HathiTrust: An Introduction for Librarians,” May 4, 2020.

Red Hat Summit, sessions on AI, data, code, diversity and inclusion, and analytics, virtual event, April 28-29, 2020.

“Solve Climate by 2030,” Nebraska Power Dialog, April 12, 2020.

“Going Remote Q&A Livestreams,” Basecamp, March 24-April 2, 2020.

“Fighting the Climate Crisis,” National Resource Defense Council, teleconference, December 17, 2019.

Service Learning Seminar, Service Learning Academy, University of Nebraska at Omaha, July 2018.

Mozilla Open Leadership Framework Coaching, Mozilla Foundation, February–June 2018.

Mozilla Open Leaders Training: Mentorship and Training on Working Open, Mozilla Foundation, February–June 2018.

“Starting a Discussion (Leading to Action),” Humanities Symposium, University of Nebraska at Omaha, February 2018.

Python for Data Science and Machine Learning Bootcamp, taught by Jose Portilla, via Udemy. Completed 2017.

Data Science and Machine Learning Bootcamp with R, taught by Jose Portilla, via Udemy. Completed 2017.

The Data Scientist’s Toolbox, John Hopkins University, via Coursera. Completed 2017.

Statistical Thinking for Data Science and Analytics, Columbia University Data Science Institute, via EdX. Completed 2017.

“Historical Trauma: Conquest, Genocide, and John Wayne, and WE are still here,” Carolyn Fiscus, Tribal Court Improvement Program, Omaha, Nebraska, September 2017.

“Collections as Data: IMPACT,” Library of Congress, July 2017.

“Open Leadership 101,” Mozilla Foundation, 2017.

“Pre-Tenure Faculty Leadership Forum,” University of Nebraska at Omaha, 2017–present.

Computation + Journalism Symposium, Stanford University, September 2016.

User! Conference, Stanford University, June 2016.

Workshop, “CartoDB@Stanford,” Stanford University, March 2015.

Participant, “Desktop Fabrication and Physical Computing,” Digital Humanities Summer Institute, University of Victoria, British Columbia, Canada, June 2014.

Workshop, “Networks in History,” Center for Spatial and Textual Analysis, Stanford University, May 2014.

Workshop, “See, Think, Design, Produce,” Jonathan Corum, Bret Victor, Mike Bostock, and Edward Tufte, San Jose, California, May 2014.

Symposium, Hestia2, Stanford University, November 2013.

Workshop, “Geo for Higher Education Summit,” Google, Mountain View, California, July 2013.

Participant, “Geographic Information Systems,” Digital Humanities Summer Institute, University of Victoria, British Columbia, Canada, June 2013.

Symposium, “Visualization and the Research Process,” Center for Spatial and Textual Analysis, Stanford University, May 2013.

Workshop, Edward Tufte Visualization Workshop, San Jose, California, May 2013.

Workshop, “Visualizing Complexity and Uncertainty,” Stanford Humanities Center, Stanford University, 2013.

Workshop, “Cutting Edge Geospatial Technologies with Google Tools,” Stanford University, February 2013.

Workshop, “Digital Frontiers: A Digital History Workshop,” Western History Association, Denver, Colorado, October 2012.

Workshop, “Open Access,” Graduate Student Association, University of Nebraska-Lincoln, October 2011.

Workshop, “Building Your C.V. and Utilizing Social Networking for Your Academic Career,” HGSA Workshop, September 2011.

Participant, Cody Camp, Cody, Wyoming, July 2011.

Session attendee, "Project Management," University of Nebraska-Lincoln Libraries, March 2011.

Workshop, "Digital Frontiers: A Digital History Workshop," Western History Association, Incline Village, Nevada, October 2010.

Workshop, Nebraska Digital Workshop, Center for Digital Research in the Humanities, University of Nebraska-Lincoln, 2008, 2009, 2010, 2011.

Workshop, "Mapmaking in the Humanities," remote participation, Electronic Data Center, Emory University, May 2009.

Workshop, "Introduction to XML," Brian Pytlik-Zillig, Center for Digital Research in the Humanities, University of Nebraska-Lincoln, October 2007.

Teaching

Digital Humanities Summer Institute

- R, Interactive Graphics, and Data Visualization for the Humanities, with Lincoln Mullen (June 2016)

University of Nebraska at Omaha (2017-present)

Courses

- HIST 4900: Introduction to Digital Humanities independent study (Spring 2018) (3 credits)

Library Instruction

- BootcampR: An Introduction to R (Spring 2020)
- Guest lecture for ISQA 4000/8086: From Data to Decisions (Fall 2019)
- Guest lecture for HIST 4990: Senior Research Seminar (Spring 2019)
- Guest lecture for HIST 4740: Comparative Genocide (Spring 2019)
- Guest lecture for HIST 1000: World Civilizations (Fall 2018)
- Guest lecture for HIST 4910: Vietnam War (Fall 2018)
- Guest lecture for HIST 4400: Native American History (Fall 2018)
- Guest lecture for HIST 2980: Historical Methodology (Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019)
- Guest lecture for ENGL 3000: Louise Erdrich (Spring 2018)
- Guest lecture for PA 3000: Applied Statistics and Data Management (Fall 2017)
- Guest lecture for HIST 9100: Ancient Macedonia (Spring 2017)

Stanford University (2013–2016)

- Digital History Reading Group (2015–2016)

- Digital History: Sources, Methods, Problems (Fall 2014) (5 credits)
- Doing Digital History workshop curriculum, Department of History (Winter 2013 and Fall 2013)

University of Nebraska-Lincoln (2008–2010)

- Teaching assistant, HIST 201: U.S. before 1877 (Prof. Brenden Rensink, Fall 2010)
- Teaching assistant, HIST 202: U.S. since 1877 (Prof. William G. Thomas, Spring 2009)
- Teaching assistant, HIST 150: African Culture and Civilization (Prof. Dawne Curry, Fall 2008)

Guest Lectures

“Introduction to Data Visualization,” guest lecture, University of Nebraska at Omaha, B. Shine Cho, Spring 2017.

“Digital Dissertations,” discussion leader, Digital Humanities Fellows, Center for Spatial and Textual Analysis, Stanford University, Spring 2016.

“Spatial History,” guest lecture, Stanford University, COMPLIST 238/ENGLISH 229D/HISTORY 229D: Introduction to Digital Humanities, Lect. Brian Johnsrud and Mike Widner, Winter 2014.

“Mass Media and the American Indian Movement,” guest lecture, University of Nebraska-Lincoln, COMM 189H: Communications and Social Movements, Prof. Carly Woods, Fall 2011.

“Thomas Jefferson and the American West,” guest lecture, University of Nebraska-Lincoln, HIST 201: U.S. History before 1877, Prof. Brenden Rensink, Fall 2010.

“Empire of Liberty: Culture, Society, and Politics in the Early Republic,” guest lecture, University of Nebraska-Lincoln, HIST 201: U.S.

History before 1877, Prof. Brenden Rensink, Fall 2010.

“Show Indians and Buffalo Bill’s Wild West,” guest lecture, University of Nebraska-Lincoln, HIST 359: Mythic West, Prof. Douglas Seefeldt, Spring 2010.

“The Origins of Red Power and the American Indian Movement,” guest lecture, University of Nebraska-Lincoln, HIST 202: U.S. History after 1877, Prof. William G. Thomas, Spring 2009.

Workshops

“TextExpander,” with Paul Zenke, Stanford Mobile Users Group, Stanford University, October 2014, Stanford, California.

“1Password,” with Vijoy Abraham and Paul Zenke, Stanford Mobile Users Group, Stanford University, May 2014, Stanford, California.

“Research Management with Digital Tools,” guest speaker, Prof. Gordon Chang, Stanford University, HIST 460: America in the World, February 2014.

“Using Technology in Teaching,” discussion participant, Prof. Nancy Kollman, Stanford University, HIST 305: Workshop in Teaching History, May 2013.

“Frameworks for Thinking about Teaching with Technology,” discussion participant, Stanford University, Center for Teaching and Learning, May 2013.

“Online Learning and History Education,” discussion participant, Stanford University, Center for Teaching and Learning, May 2013.

“Digital Frontiers: A Digital History Workshop,” workshop co-leader, Western History Association, Denver, Colorado, October 2012.

“Building Your C.V. and Utilizing Social Networking for Your Academic Career,” workshop co-leader, History Graduate Student Association Workshop, September 2011.

“Introduction to XML/XSLT,” workshop leader, University of Nebraska-Lincoln, HIST 970: Digital History Seminar, Spring 2011.

Discussion Leader

Discussion leader, “The Dust Bowl,” Prof. Douglas Seefeldt, HIST 352: American West since 1900, Spring 2012.

Discussion leader, “Buffalo Bill’s Wild West,” Prof. Douglas Seefeldt, HIST 352: American West since 1900, Spring 2011.

Discussion leader, Upton Sinclair’s *The Jungle*, Prof. William G. Thomas, HIST 202: U.S. After 1877, Spring 2009.

Professional Development

Workshop, Graduate Teaching Assistant Workshop, Department of History, University of Nebraska-Lincoln, August 2010.

Advising

Graduate Students

- Rebecca Wall, African Colonial Employees Project, Stanford University, 2014–2015
- Liz Jacob, African Colonial Employees Project, Stanford University, 2014–2015

Graduate Interns

- J.P. Obley, William F. Cody Archive, University of Nebraska-Lincoln, 2012
- Andrew Tully, William F. Cody Archive, University of Nebraska-Lincoln, 2012

Undergraduate Advising

- Julia Laurence, Crowdsourcing Railroads, Stanford University, 2015
- Rahul Singireddy, Chinese Input, Stanford University, 2015
- KJ Fryauff, Follow the Money Project, Stanford University, 2015
- KJ Fryauff, Chinese Railroad Workers Project, Stanford University, 2014
- Jocelyn Hickcox, Geography of the Post, Stanford University, 2013
- Tara Balakrishnan, Geography of the Post, Stanford University, 2013
- Jared Roehrich, William F. Cody Archive, University of Nebraska-Lincoln, 2011–2012

Student Supervision & Management

- Alex Ramsey, American Indian Digital History Project, UNO, 2020
- Aaron Burbach, American Indian Digital History Project, UNO, 2020

- Haji Salad, Mobile Community Archives, UNO, 2019-2020
- Sara Ibrahim, Mobile Community Archives, UNO, 2019
- Isis Hernandez-Troche, Mobile Community Archives, UNO, 2018-2019
- Cory Starman, Haphastian Place Naming, UNO, 2018-2019

Directed Readings, Independent Studies, and Creative Projects

Readings in Digital History, University of Nebraska at Omaha, Cory Starman, Spring 2018.

Readings in Digital History, University of Nebraska at Omaha, Christine Taylor, Spring 2018.

Computing Platforms and Digital Humanities

Data analysis: R (programming language), D3.js (visualization), QGIS / ArcGIS (mapping)

Programming languages: R, Javascript, Python, Ruby, PHP, Unix shell scripts, SQL

Data science: tidyverse, ggplot, Plotly, Apache Spark

Versioning: SVN, Git, GitHub, GitLab

Web Frameworks/Content Management Systems: Drupal, WordPress, Jekyll, Omeka

Operating Systems: Linux, MacOS, Windows, VMS

Database Systems/Persistence: MySQL, SQLite, Postgres

Web/Markup Languages: XML, JSON, HTML, CSS, XSLT 1.0 and 2.0, TEI, \LaTeX

Systems Administration: Linux, Apache, MySQL

Applications: Microsoft Office, Adobe Photoshop, Adobe Illustrator

Languages

English (native proficiency), Norwegian (bokmål) (beginner), Dutch (beginner)

Professional Organizations and Service

Membership in Professional and Community Organizations

American Historical Association Western History Association

Organization of American Historians

American Library Association

National Council on Public History

American Society for Environmental History

Association for Computers and the Humanities

Nebraska Library Association

Nebraska Educational Technology Association

The League of American Bicyclists

Bike Omaha Network

Mode Shift Omaha

Offices in Professional Organizations

Western History Association

Program Committee, 2018 Annual Meeting, San Antonio, Texas, 2017-2018.

Technology Committee, 2011–present (Committee chair, 2017–present)

Alliance of Digital Humanities Organizations

Program reviewer, Digital Humanities Conference 2018, ADHO Conference Coordinating Committee, Mexico City, Mexico, 2018.

Program reviewer, Digital Humanities Conference 2017, ADHO Conference Coordinating Committee, Montreal, Canada, 2017.

Libraries and Digital Humanities Special Interest Group, 2017–present

Service to the Profession

Referee for these journals, publishers, grant agencies, and academic software repositories: *The Programming Historian*, *The Public Historian*, National Endowment for the Humanities.

Departmental / College / University Service

University Committees

University of Nebraska at Omaha

Member, University Committee for the Advancement of Teaching, 2020–present

Member, University Committee on Technology Resources, Services, and Planning, 2019–present.

Member, Sustainability Curriculum Committee, 2019–present

College Committees

University of Nebraska at Omaha

Member, Outreach Archivist Search Committee, UNO Libraries, 2019.

Faculty Chair-Elect, Library Faculty, UNO Libraries, 2017–present.

Member, Social Science Librarian Search Committee, UNO Libraries, 2017.

Organizer, Endangered Data Week, UNO Libraries, April 2017.

Member, De-stress Fest Committee, UNO Libraries, 2017.

Member, Triple Bottom Line Committee, UNO Libraries, 2017–present (Committee chair, 2017–present) – Subcommittee on Recycling (2017–present); Subcommittee on Outreach (2019–present).

Stanford University

Member, Stanford Interactive Media Group, 2014–2016.

Member, Stanford Interactive Mapping Group, 2013–2016.

Member, Data Visualization Users Group, 2013–2016.

Member, Stanford Mobile Users Group, 2014–2016.

South Dakota State University

Secretary/Treasurer, Phi Alpha Theta, 2005–2006.

Department Committees

University of Nebraska at Omaha

Member, OER Committee, 2018–present.

Stanford University

Member, Digital Publishing Committee, Center for Spatial and Textual Analysis, 2013–2016.

Member, Digital Humanities Certificate Committee, Center for Spatial and Textual Analysis, 2013–2016.

Member, Stanford Network Analysis Group, Center for Spatial and Textual Analysis, 2015–2016.

University of Nebraska-Lincoln

Member, Digital Outreach Committee, History Graduate Students' Association, 2012–2013.

Co-Chair, Poster Committee, Center for Great Plains Studies Symposium, 2011–2012.

Vice President, History Graduate Students' Association, 2010–2011.

Assistant Director, Sixth Annual James A. Rawley Conference in the Humanities, 2010–2011.

Member, Program Committee, James A. Rawley Conference in the Humanities, 2009–2011.

Member, Digital Outreach Committee, History Graduate Students' Association, 2007–2010.

Executive Director, Fifth Annual James A. Rawley Conference in the Humanities, 2009–2010.

Chair, ad hoc Website Committee, History Graduate Students' Association, 2008–2009.

Treasurer, History Graduate Students' Association, 2008–2009.

Member, Publicity Committee, Third Annual James A. Rawley Conference in the Humanities, 2008–2009.

University Service

University of Nebraska at Omaha

Organizer, Digital Humanities Community of Practice, UNO Libraries, 2018–present.

Organizer, R User Group, UNO Libraries, 2019–present.

Faculty Moderator, Student Research and Creative Activity Fair, University of Nebraska at Omaha, March 2018, March 2019.

Member, Digital Engagement Community of Practice, UNO Libraries, 2017–2018.

Stanford University

Member, Spotlight Service Team, Center for Interdisciplinary Digital Research, 2016–2016.

Member, Stanford University Libraries Concierge Advisory Group, 2014–2016.

Member, Working Group on Stanford University Libraries Technical Infrastructure, 2013–2014.

University of Nebraska-Lincoln

Member, UNL Libraries Graduate Student Advisory Board, 2010–2012.

Community Service

Member, Environmental History Action Collaborative, Environmental Data & Governance Initiative, 2020–present.

Deputy voter registrar, Douglas County, Nebraska, certified March 2018.

Member, Mode Shift Omaha, Omaha, Nebraska, 2017–present.

Member, Bike Omaha Network Committee, LiveWell, Omaha, Nebraska, 2017–present.

Graduate Student Volunteer, History Harvest, Nebraska Public Television, University of Nebraska-Lincoln, Lincoln, Nebraska, 2010.

Judge, National History Day, Nebraska State Competition, Nebraska Wesleyan University, Lincoln, Nebraska, 2009.

Other Professional Service

Member, Committee for Equity and Inclusion, Digital Library Federation, 2020–present.

Community Representative, Digital Public Library of America, 2017–2018.

Member, Government Records Transparency and Accountability Group, Digital Library Federation, 2017–present.

Member, Advisory Board, American Indian Digital History Project, 2014–present.

Digital Content Advisory Board, The American Yawp Textbook, 2014–present.