
katherine pandora

department of the history of science, technology and medicine
university of oklahoma

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research fields

History of American Science in the 19th- and 20th centuries | Science and the Public | Popular Culture Studies | Science Communication | Natural History | Social Sciences | Gender Studies | Childhood Studies | Digital Humanities and New Media

education

University of California, San Diego

Ph.D., Department of History with a Concentration in Science Studies, 1993

Cornell University

M.A., Developmental Psychology, Department of Human Development & Family Studies, 1983

University of California, Los Angeles

B.A. *cum laude*, Major in Psychology with Honors, 1980

academic appointments

2001-present Associate Professor, Dept. of the History of Science, University of Oklahoma

1995-2001 Assistant Professor, Dept. of the History of Science, University of Oklahoma
Women's and Gender Studies, Core Faculty Member, 2009-present

Environmental Studies [formerly the Interdisciplinary Perspectives on the Environment Program], Affiliate Faculty Member, 2004-present

Film and Media Studies, Affiliate Faculty Member, 2000-present

Human-Technology Interaction Center, Affiliate Faculty Member, 1997-2008

honors, awards, and fellowships

2014 The Longmire Prize for Teaching | College of Arts and Sciences
University of Oklahoma

2001-2002 Fellow, Charles Warren Center for Studies in American History
Harvard University

2000 Named a Presidential Associates' Presidential Professor, University of Oklahoma

1994-1995 Andrew Mellon Postdoctoral Research Fellowship, University of Oklahoma

1991-1993 Dissertation Fellowship, University of California, San Diego

1989-1990 Regents Fellowship, University of California, San Diego

1988-1989 University Fellowship, University of California, Los Angeles

publications

book

Rebels within the Ranks: Psychologists' Critique of Scientific Authority and Democratic Realities in New Deal America (Cambridge U Pr, 1997)

book manuscript in preparation

"Science in the American Vernacular: Twentieth-Century Natural Histories and the Challenge of Challenge of Knowledge Held in Common." *Twentieth-century assumptions of the necessity for scientists to operate in a sphere divorced from that of the lay public has been a persistent source of tension in the United States due to the foundational belief that a democratic republic cannot function properly unless knowledge is accessible to all citizens. The failure to acknowledge, however, that various forms of natural history have provided models, ethical principles, intellectual concepts, social practices, and avenues of cultural engagement that refute these assumptions has stymied productive communication between the world of scientific professionals and those participating within the intellectual commons of the vernacular sphere. In this work I explore the ramifications that the work of a dozen figures across the 20th century have had on cultural contestations about the who, what, where, and why of modern science.*

articles in journals and collections

"First Do No Harm: Gordon Allport on Contextual Inadequacy and Psychological Research," revised and resubmitted, *History of Psychology*

"'There was a Child Went Forth Everyday': Portraying Children's Experiential Engagement with the Natural World in Work and Play in the Stories of Samuel Griswold Goodrich and Jacob Abbott," under revision for *New England Quarterly*

"Popularizing, Moralizing, and the Soul of American Science," *Isis*, 2019, 110:784-787

"The Permissive Precincts of Barnum and Goodrich's Museums of Miscellaneity: Lessons in Knowing Nature for New Learners," in Carin Berkowitz and Bernard Lightman, eds. *Anglo-American Science Museums in Transition: Nineteenth-Century Cultures of Display* (U of Pittsburgh Pr, 2017)

"Amateurs," in Bernard Lightman, ed. *A Companion to the History of Science* (Wiley-Blackwell, 2016), 139-152

"Science Fiction and Hidden Histories of Science," in Leigh Grossman, ed., *Sense of Wonder: A Century of Science Fiction* (Wildside Press, 2011)

"Popular Science in National and Transnational Perspective: Suggestions from the American Context," *Isis*, 2009, 100:346-358

"The Children's Republic of Science in the Antebellum Literature of Samuel Griswold Goodrich and Jacob Abbott," in Carol Harrison and Ann Johnson, eds. *National Identity: The Role of Science and Technology*, vol. 24 of *Osiris* (U of Chicago Pr, 2009), 75-98

"Science in the Everyday World: Why Perspectives from the History of Science Matter" (with Karen Rader), *Isis*, 2008, 99:350-364

"Knowledge Held in Common: Tales of Luther Burbank and Science in the American Vernacular," *Isis*, 2001, 92:484-516

“Luther Burbank,” in John Garraty, ed. *American National Biography*, vol. 3 (Oxford U Pr, 1999), 926

“Mapping the New Mental World Created by Radio’: Media Messages, Cultural Politics, and Cantril & Allport’s *The Psychology of Radio*,” *Journal of Social Issues*, 1998, 54:7-27

other articles

petri dish: labnotes on science and culture weblog posts
http://www.katherinepandora.net/petri_dish/, 2009-2020

gizmodo thinkpiece (2020): “What is the Worst Scientific Fraud of the 20th Century?”

“Arrows to Atoms: Curiosity in the Age of the Internet,” 2018 Special Issue on “Curiosity,” *Oklahoma Humanities Magazine*, 11:14-17

Academic Advisor for the biographical introduction, select bibliography, and excerpts of selected texts and critical commentary for the entry “Samuel Griswold Goodrich (1793-1869),” authored by Jonathan Kolstad in vol. 212, Lawrence Trudeau, ed., *Children’s Literature Review* (Gale: Cengage Learning, 2017), 1-76

“Thinking Like an Ocean: Discovery is Part Science, Part Imagination” in the Summer 2015 Special Issue on “Planet Earth,” *Oklahoma Humanities Magazine*, 9:26-29

“Departmental Websites: Hacking the Academy by Living on the Open Web,” included at the Project Website for “Hacking the Academy” <http://hackingtheacademy.org/> / Edited by the Center for History and New Media at George Mason University

“Redesigning the Engineering Mind: The Revelations of the Arcturus IV Science Fiction Project at Midcentury MIT,” *Science, Technology & Society Curriculum Newsletter*, Spring 2006, 1-7

“Lois Barclay Murphy: Approaching Psychology from the World of the Child,” *Psychology of Women Newsletter*, November 1997, 19, 30

book reviews and review essays

Review of Katy Price, *Loving Faster Than Light: Romance and Readers in Einstein’s Universe* in *Isis*, 2014, 103:657-8

Review of Thomas Bartscherer and Roderick Coover, eds., *Switching Codes: Thinking through Digital Technology in the Humanities and Arts*, in *Technology and Culture*, 2012, 53:961-2

Review Essay: “Twentieth-century history of science from the camera’s vantage point” in *Metascience*, 2010, 19:125 [Review of Timothy Boon, *Films of Fact: A History of Documentary Films in Science and Television*]

Review of Marcel LaFollette, *Science on the Air: Popularizers and Personalities on Radio and Early Television* in *Isis*, 2009, 100:952-953

Review of Cornelius Holtorf, *Archaeology is a Brand! The Meaning of Archaeology in Contemporary Popular Culture*, in *Public Understanding of Science*, 2008, 17:507-8

Review Essay: “Diversity and Its Discontents: Scientific Surveys and the Creation of the Twentieth Century Numeric American” in *Reviews in American History*, 2007, 35:599-605 [review of Sarah E. Igo, *The Averaged American: Surveys, Citizens and the Making of a Mass Public*]

Review of Michael Whitworth, *Einstein's Wake: Relativity, Metaphor, and Modernist Literature in Isis*, 2004, 95:158

Review of C. van Bavel, *Hugo de Vries: Travels of a Dutch Botanist in America* in *Isis*, 2003, 94:740
Review of Bruno Latour, *Pandora's Hope: Essays on the Reality of Science Studies in American Scientist*, 1999, 87:570

Review of Leila Zenderland, *Measuring Minds: Henry Herbert Goddard and the Origins of American Intelligence Testing* in *Isis*, 1999, 90:395-6

Review of Peter Galison and David J. Stump, eds., *The Disunity of Science: Boundaries, Contexts, and Power in Technology and Culture*, 1998, 39:545-6

Review of Charles Rosenberg, *No Other Gods: Science and American Social Thought*, rev. ed., in *American Scientist*, 1998, 86:300

Review of the City of Los Angeles Maritime Museum in *Public Historian*, 1993, 15:196-7

Review of Steven Shapin and Simon Schaffer, *Leviathan and the Air-Pump: Hobbes, Boyle, and the Experimental Life* in the *UCLA Historical Journal*, 1986, 7:79-81

digital scholarship and creative work

cat's cradle: exploratory model for open notebook history through the use of scalar
<http://scalar.usc.edu/works/cats-cradle-11/index> [prototype 2015 – present]

Galileo Online: An Undergraduate Crowdsourced/Collaborative Experiment in Children's Science Biographies / pressbooks.com [2015-forward]

undergraduate research through coursework and undergraduate blogging: collected links at
<http://www.digitalhumanitieswork.net/portfolio-items/intros-seminars/> [2011-present]

The Children's Darwin: Undergrads at the Collections Exhibit Series [online and on-site]:
http://scipop.typepad.com/undergrads_collections/introduction_childrens_darwin.html [2009-10]

Little Scientists in Victorian Times http://scipop.net/childhood.victorian_project.htm [2008-2009]

petri dish weblog: cultural history of science http://scipop.typepad.com/petri_dish [2006-forward]

“Science and Popular Culture *Webfolio*” | Course Workbook <http://scipop.net/> [2004-2010]

Norman CivicNet e-democracy community issues and elections website: prototype [2003-2005]

invited lectures: symposia, honorary events, plenaries

“Who Speaks for Nature? Scientists, Journalists and the Public Face of Science during Three Information Revolutions” | Opening Keynote for the Knight Science Journalism Program at MIT/Kavli Foundation's Symposium on Science Communication: “Are We All Science Journalists Now?”, MIT's Endicott House, Dedham Massachusetts [July 2016]

“Digital Humanities and Undergraduate Research for Non-Humanities Majors: Assessing the Potential” | Invited Symposium Speaker, Oklahoma State Regents for Higher Education's 5th Annual Conference on “Promoting Undergraduate Research,” Oklahoma City, OK [September 2014]

Visualizing the Natural World for the Young” (February 2011) | Princeton University Cotsen Children’s Library Conference, *Enduring Trifles: Writing the History of Childhood with Ephemera* [2011]

“Portraying the ‘Intimate Scientist’ in 20th-century America: The Pushback in Popular Culture Against Scientific Arrogance” | UC Berkeley-UCSF History of Science, Technology & Medicine Colloquium, 2008

“Making Sense of Science: Views from within the ‘Intellectual Commons’ of Popular Culture” | The Dibner Institute at MIT and Arizona State University’s Summer Seminar Workshop: “What’s the Use of History of Science for Science?”, Woods Hole Marine Biological Laboratory [May 2007]

“What Have We to do with Mr. Everyman, or He with Us?’ Reflections on Professionalism, the Public, and the Digital Age” | Plenary Address for the Joint Meeting of the History of Science Society and the Society for the History of Technology [February 2005]

“Psychological Innovations, Historical Conventions, & the Politics of Memory” | The Mary Whiton Calkins Lecture, American Psychological Association Annual Meeting, Washington DC [August 2000]

“Varieties of Historiographic Experience: Writing Intellectual and Cultural Histories of American Science” | Forum for the History of Science in America’s 15th Anniversary Session on “Historical Writing on American Science Revisited: The Current State of the Field,” History of Science Society Annual Meeting [November 1999]

conference papers and presentations

"Past/Present: Does the Doomsday Clock Keep the Right Time?" *American Association of Physics Teachers Annual Summer Meeting* [Virtual, 2021]

"Experimenting with 'Open Notebook History' in an Era of Shifting Research Ecologies" | *Colloquium on Digital Humanities: Interdisciplinary Perspectives on Data* | College of Arts and Sciences Research Discussion Series, [February 2020]

“Undergraduate Humanities Research in the Gen Ed Classroom: Experimenting with Digital Humanities and New Media,” National Council for Undergraduate Research Annual Conference [2018]

“Popular Genres of Science Education and the Normative Uses of History of Science in the post-National Science Foundation Era in the United States,” Int’l Congress for the History of Science, Technology & Medicine, Rio de Janeiro Brazil [July 2017]

“Digital Humanities and Undergraduate Research for Non-Humanities Majors,” Oklahoma State Regents for Higher Education’s 8th Annual Conference on “Promoting Undergraduate Research,” Oklahoma City, OK [September 2017]

"Digital Humanities and Undergraduate Research for Non-Humanities Majors: Assessing the Potential" | Invited Symposium Speaker, Oklahoma State Regents for Higher Education’s 5th Annual Conference on “Promoting Undergraduate Research,” Oklahoma City, OK [September 2014]

“Museums of Miscellaneity and the Making of Scientific Americans: Goodrich, Barnum, and Natural Histories of the Curious” for the Annual Gordon Cain Conference on “Curators, Popularizers and Showmen: Science in 19th-century Anglo-American Exhibitions and Museums” at the Arnold and Mabel Beckman Center at the Chemical Heritage Foundation, Philadelphia PA, 2015

“Designing for Open Notebook History” at “Digital Humanities Day” (Convened by the University Libraries, the Office of the Senior Vice President and Provost, and the OU Humanities Forum), University of Oklahoma, Fall 2015

Session Organizer and Commentator for Roundtable on *Unbecoming British: How Revolutionary America became a Post-Colonial Nation* by Kariann Yokota for the Mid-America Conference on History, Norman OK, 2013

Panelist on “Teaching Hybrid and Online,” Graduate Teaching Academy, University of Oklahoma, 2013 and 2014

The Image of the ‘Intimate Scientist’ and Vernacular Re-creations of Modern Science” for the International Congress of the History of Science, Technology and Medicine Quadrennial Meeting, Manchester UK, 2013

Humanities Panelist, *Dealing with Data: Partnering with Researchers on Data Management Workshop*, University of Oklahoma Libraries, November 2012

“The Politics of Experiential Reality and the Piety of the Laboratory,” History of Science Society Annual Meeting, Cleveland OH, 2011

“Pixelated Humanism: The Digital Vernacular and the Ghost of Carl Becker,” History of Science Department Colloquium, University of Oklahoma, 2011

“A Child’s-Eye View of the History of Science in Cold War Science Documentaries” for *The Public History of Science and Technology* Conference, University of South Carolina, 2011

“The Organization Man Meets Arcturus IV: Subverting the MIT Mindset for Undergraduate Engineers in the 1950s,” Midwest Junto for the History of Science Annual Meeting, University of Oklahoma, 2010

Panelist on “Classroom Ethos,” Graduate Teaching Academy, University of Oklahoma, 2010

“Visualizing the Natural World for Children in Antebellum America: Peter Parley and the Art of Miscellany,” History of Education Society Annual Meeting, Philadelphia PA, 2009

Invited Workshop Participant, “Science and Science Fiction: Shared Territory and Opportunities for Teaching, Learning, and Public Understanding” Co-sponsored by the National Science Foundation and the Seattle Science Fiction Museum, Seattle WA, 2004

“‘There was a Child Went Forth Everyday’: The Natural World as a Republican Nursery in the Antebellum Literature of Samuel Goodrich and Jacob Abbott,” for the American Antiquarian Society’s Conference on “Home, School, Play, Work: The Visual and Textual Worlds of Children” | Sponsored by the Center for Historic American Visual Culture and the Program in the History of the Book in American Culture, Worcester MA, 2008

“The Intimate Scientist: Vernacular Contestations of the View from Nowhere,” History of Science Society Annual Meeting, Washington DC, 2007

Invited Conference Participant/Discussant for the *Osiris* volume Conference on Science, Technology, and National Identity” | University of South Carolina, 2007)

“Redesigning the Engineering Mind: The Revelations of the Arcturus IV Science Fiction Project at Mid-Century MIT,” Society for the History of Technology Annual Meeting, Minneapolis MN, 2005

“Peter Parley as a Scientific American: Creating an Indigenous Literature for the Children’s Republic of Science” for the Science and Technology Studies Program and the Department of History, University of California, Davis, 2004

“Lessons from Nature’s Open Book’: The Children’s Republic of Science in the Antebellum Literature of Samuel Griswold Goodrich and Jacob Abbott,” Charles Warren Center for Studies in American History, Harvard University, 2002

Society Annual Meeting, Vancouver BC, 2000 session Chair & Commentator, “Psychology, Popularization, and the Public,” History of Science “Peter Parley as a Scientific American: Creating an Indigenous Literature for the Children’s Republic of Science,” History of Science Society Annual Meeting, Milwaukee WI, 2002

“Kurt Lewin’s America: A Refugee Social Psychologist and the Politics of Science,” Schusterman-Josey Lectures in Judaic Studies, University of Oklahoma, 1999

“Jesting in Earnest: Jamesian Critiques of Scientific Piety,” Society for Literature and Science Annual Meeting, Norman OK, 1999

“Natural Histories of Science in the American Vernacular: Or, On Knowing One’s Place in the History of Science,” Andrew Mellon Postdoctoral Research Fellowship Program Conference, “Where the Biological and the Social Converge: Identity, Place, and Knowledge in the History of Science,” University of Oklahoma, 1999

“Stories of Vernacular Science: The Apotheosis of Robert Stroud, the Birdman of Alcatraz,” History of Science Department Colloquium Series, University of Oklahoma, 1998

“Nature is Everywhere Gothic, Not Classic’: William James and the Challenge of Radical Empiricism,” University of Oklahoma Department of the History of Science, 1995

“Why ‘Individuality’ Matters as a Scientific Principle,” University of New Hampshire Department of Psychology, 1993

“Is Diversity ‘Real’? Debating the Metaphysics of Democracy in Psychology during the 1930s,” Northwestern University Department of History, 1993

“Luther Burbank as an Icon of Popular Science,” History of Science Society Annual Meeting, Washington DC, 1992

“Dissenting from Pure Experimentalism: The Natural History Model and Pragmatist Psychologists during the 1930s,” Cheiron Annual Meeting, Slippery Rock PA, 1991

“Challenging the Search for General Laws: Pragmatist Psychologists during the Great Depression,” History of Science Society Annual Meeting, Madison WI, 1991

grants and funding awards

CAS Senior Summer Faculty Fellowship, 2018 | \$7,500

University of Oklahoma Presidential Dream Course HSCI 3550/GEOG 3890 “Adventures in Digital Humanities: Explorations in Space, Time & Meaning,” 2015 | \$20,000

THATCamp OU | Funding from OU Libraries and the CAS Faculty Assistance Program, 2014 | \$3,750

FOCAS Funding for Distinguished Lecture Series in Digital Humanities, 2012 | \$3,500

CASIT Award: “Undergraduate Portal in the History of Science, Technology, and Medicine: Facilitating Undergraduate Research Options in the Humanities,” 2009-2010 | \$9,800

University of Oklahoma Faculty Senate Award: Webproject on 19th Science & Childhood, 2008 | \$2,400

Investigator Grant (as doctoral advisor for Mark Eddy), National Science Foundation #9950035,
Doctoral Dissertation Research Grant, 2000 | \$7,764

Investigator Grant, National Science Foundation #9710444, "Science in the American Vernacular,"
1999-2001 | \$98,012

Grant for Development of Demonstration Curriculum Webproject | College of Arts and Sciences
Computer Advisory Committee, 1998 | \$3,150

Norman CivicNet Survey Research | On- and Off-campus Sponsors: City of Norman; SBC; OU College
of Arts & Sciences; Vice-President for Research; Michael F. Price College of Business, 1998 | \$8,000

Junior Faculty Research Grant | Vice-President for Research, University of Oklahoma, 1997 | \$6,000

Faculty Enrichment Grant | College of Arts and Sciences, University of Oklahoma, 1997 | \$1,200

"Technology, Information & People Lecture Series" | College of Arts and Sciences, University of
Oklahoma [with Professors Francis Durso and Scott Gronlund, Psychology] 1996 | \$8,300

teaching presentations

"Graduate Student Mentoring in the Humanities" | Graduate College Faculty Workshop [2018]

"Faculty Learning Community on Digital Humanities," Coordinator of Workshop Series | Sponsored by
the Center for Teaching Excellence, University of Oklahoma [2013 and 2014]

"Teaching Hybrid & Online Courses," Graduate Teaching Academy, University of Oklahoma [2013, 2014];
"Classroom Ethos" [2010]

"Citizenship/Scholarship/Leadership in a 2.0 World: Facilitating Student Experiences with
the Participatory Web" | Teaching Scholars Initiative, University of Oklahoma [2013]

"Using the Web for Teaching: Content and Design Issues," American Studies Brown-Bag Lunch Series,
Charles Warren Center for Studies in American History, Harvard University [2001] |

training/workshops

:: Adobe Education Exchange: Podcasting (Creative Classroom Series) | certificated 10 hrs. prof. ed.

:: THATCamp OU | Regional Digital Humanities Conference | Organizing Committee and
Participant, University of Oklahoma [2014]

:: THATCamp Texas (UT Arlington) | Regional Digital Humanities Conference, Participant [2012]

:: "Science: Becoming the Messenger" | NSF Workshop, Norman OK [2011]

:: Two-Day Training Course: The ECHO Project: "Exploring and Collecting History Online:
Science & Technology" | Center for History and New Media (George Mason University) [2001]

:: "Presenting Data and Information" | Prof. Edward Tufte, Dallas, TX [2000]

:: College of Arts & Sciences Faculty Technology Summer Workshop, University of Oklahoma [1999]

graduate courses

- Issues and Topics in Digital Humanities: Introductory Seminar
- Advanced Graduate Seminar in the History of Modern Science
- Introductory Graduate Seminar: Research, Criticism and Analysis

- Gender Issues in Science, Technology, and Medicine
- History of American Science and Technology
- The Role of Science & Technology in the Making of the American West
- Natural History as Modern Science
- Science, Culture, and Questions of Mind and Emotion in the History of Science

graduate research being supervised

current students

James Burnes (C.Phil.); Rebecca Marcolina (M.A.)

completed dissertations

- Kirsty Lawson (2021): “Identifying experiential practices and science in mid-eighteenth-century British cookbooks with open-access sourcing”
- Carolyn Scarce (2019): “Fish Facts: Disciplinary Development of Ichthyology in Nineteenth Century Europe”
- Anna Reser (2019): “Images of Place in American Spaceflight, 1958-1974”
- Kathleen Sheppard (2010): “‘A Life Without a Single Adventure’: Margaret Murray and the History of Egyptology in Britain.” (Associate Professor, Dept. of History and Political Science, Missouri University of Science and Technology)
- Cornelia Lambert (2010): “‘Tricks Upon Travelers’: Robert Owen, New Lanark, and the Choreography of Character, 1800-1825.” (Lecturer, Dept. of History, Anthropology & Philosophy, University of North Georgia)
- Kimberly Perez (2006): “Fancy and Imagination: Cultivating Sympathy and Envisioning the Natural World for the Modern Child.” (Associate Professor and Chair, History Dept., Fort Hayes State University)

master’s theses

- Paul Vieth (2018): “The co-production of technoscience and social science in Green Revolution Mexico, 1956-1979.”
- Jackson Pope III (2016): “Listening at the Lab: Bird Watchers and the Cornell Laboratory of Ornithology.”
- Anna Reser (2015): “The Body of the Astronaut as a Body of Images: The Visuality of the American Space Program, 1959-1960.”
- James Burnes (2014): “The Gilded Skull in England’s Closet: Displaying Human Evolution at the American Museum of Natural History.”
- Kirsty Lawson (2013): “English Social Spaces: Curiosity Cabinets and Education in Science from 1650-1700.”
- Carolyn Scarce (2013): “John Gray and Albert Gunther are Dead: Zoology at the British Museum during the Darwinian Era.”
- Emily Margolis (2013): “Atomic Deliveryman on Display: The Enola Gay at the National Air and Space Museum’s Stephen F. Udvar-Hazy Center.”
- Shannon Pingnot (2011): “Keeping Up with the Johnsons: Multi-Media Mavens of the Early Twentieth-Century Safari.”
- Lisa Torres (2008): “Caroline Herschel: A Re-examination.”
- Katherine Sheppard (2006): “‘You Call This Archaeology?’ Flinders Petrie and Eugenics.”

- Natalie Peck (2002): “‘The Perfect Socialism’: The Social Philosophy of Anna Botsford Comstock in the Nature Study Movement.”
- Cheryl Smith (2000): “Learning About Common Things”: Conceptions and Uses of Science in the Juvenile Literature of Jacob Abbott.” Kim Perez (1998): “Progressivism, Popularization, and Ornithology: Arthur A. Allen and the Cornell Ornithological Program.”
- Mark Eddy (1995): “The Origin of Speech: F.W. Farrar and the Role of Language in the Darwinian Theory of Mental Evolution.”

undergraduate courses

- Adventures in Space and Time: Introduction to Digital Humanities [Presidential Dream Course] with Professor Darren Purcell (Dept. of Geography & Environmental Sustainability)
- Capstone Seminar
- Exploring Digital History [cross-listed with the Dept. of History]
- The Future of the Past: History in the Digital Age [for the Dept. of History]
- History of Science to Newton [including Honors Courses]
- History of Science since Newton [including Honors Courses]
- Junior Seminar
- Science and Popular Culture
- Science, Technology & Politics: International Perspectives
- The Political Einstein [Honors Course]
- Social & Ethical Issues in Science, Technology, the Environment & Medicine
- Gender Issues in Science, Technology & Medicine: Historical Perspectives
- Lives in Science
- Historical Perspectives on Technology, Culture & Human Experience (with Professor Francis Durso, Dept. of Psychology)
- Science, Nature, and Society
- The History of Science through Science Fiction
- Ethical issues in Science and Technology [for the Human-Technology Interaction Center’s Summer NSF Research Experiences for Undergraduates Program, University of Oklahoma]

undergraduate research supervised

Honors Research Projects

Marcus Autry: “*New Forms of Scientific Communication: The Emergence of Science Blogging*” [Winner of the Phi Kappa Phi Distinguished Undergraduate Research Award for 2012]

Carly Schueler (Zoology): “*Gender Issues in Contemporary Veterinary Medicine*”

Parker Holman (Zoology): “*Ethical Issues in Work with Laboratory Animals*” [Committee Member]

Seminar Research Projects Presented at Undergraduate Research Day

Marcus Autry (Multidisciplinary Studies): “*New Forms of Scientific Communication: The Emergence of Science Blogging*”

Ashley Johnson (Psychology): “*Why War? Freud, Einstein and Elitist Views of Pacifism*”

Christopher Riggs (Music): “*Minds of the Modern: Scientific and Artistic Approaches to Time in Einstein, Picasso, and Stravinsky*”

Director of Individual Research, NSF Research Experiences for Undergraduates [1999-2004]
Jamaica Brown (Reed College, Sociology): “*Blogging and Beyond: Structure and Significance on the Internet*”; Kimberly Roberts (Drury College, Psychology): “*Applications of Social Sciences to the Internet: Specific Emphasis on Community Networks*”; Luke Misenheimer (UNC Chapel Hill, Mathematics): “*Superiors to Servants: The Progression of American Conceptions of the Computer*”; Oriana Walker (Reed College, Physics): “*Conceptions of the Scientific vs. the Technological Mind in Cold War America*”

Director of Interdisciplinary Team Research, NSF Research Experiences for Undergraduate Program [2003, 2004]

“Computer-Mediated Communication in the Digital Age: Constructing an e-Democracy Elections Website for Norman Oklahoma

Students: Erin Darlington (University of Tulsa, Psychology); Patrick Harmason (University of Oklahoma, Engineering); Jessica Heatherly (John Brown University, Engineering); Cheryl Jerozal (Bethel College, Computer Science); Johnathan Nelson (Utah State, Psychology); Angela Platt (Penn State University, Psychology); Ben Rainville (Willamette, Computer Science); Callie Willis (Notre Dame, Psychology)

Ethics Workshop Coordinator/Leader, NSF Research Experiences for Undergraduates Program in Human-Technology Interaction, University of Oklahoma [1999-2004] and NSF Resesarch Experiences for Undergraduate Program in Industrial Engineering, University of Oklahoma [2005-2008]

professional activities and service

Proposal Review Panelist, "Global Culture and Gaming" for the Digital Projects for the Public Program, National Endowment for the Humanities, Washington DC, Fall 2019

Proposal Review Panelist, Digital Projects for the Public Program, National Endowment for the Humanities, Fall 2017 [virtual]

Editorial Board, *History of Psychology*, 2014-2016

Proposal Review Panelist, representing the National Endowment for the Humanities as part of the international consortium for the 2013 “Digging into Data” Challenge | The Hague Netherlands, Fall 2013

Proposal Review Panelist, Division of Preservation and Access (Grants in Science/Technology/Medicine), National Endowment for the Humanities, Washington DC, Fall 2011

Elected to and Served on the History of Science Society Council, 2006-2008

Proposal Review Panelist, Division of Preservation and Access (Grants in Science/Technology/Medicine), National Endowment for the Humanities, Washington DC, Fall 2006

Advisory Editor, Editorial Board of *Isis: A Journal of the History of Science Society*, 2002-2005

Invited History of Science Respondent, “Survey of Scholarly Practices,” for the History Field Committee of the National Initiative for a Networked Cultural Heritage | Project of the American Council of Learned Societies & the National Research Council, 1999

Reviewer, 1998 forward

Article Submissions: *Agricultural History*; *British Journal for the History of Science*; *Historical Studies in the Natural Sciences*; *Isis*; *Journal of the History of Biology*; *Science, Technology, and Human Values*

Book Manuscripts: Bedford/St. Martin's Press; U of Chicago Press; Harvard U Press; Oxford U Press; Rutgers U Press; U of Wisconsin Press

Research Proposals: National Endowment for the Humanities, National Science Foundation

university service

Member, University Libraries' Search Committee for a Director of Open Initiatives and Scholarly Communication, 2022

University Libraries Committee Scholarly Communication Taskforce, 2019-present

Co-Chair, Graduate Certificate in Digital Humanities Program, 2016-2019

Research Liaison, 2014-2015

Coordinator (w/ Darren Purcell, Geography) Dream Course "Digital Humanities Speaker Series," 2015

Task Force THATCamp OU Planning Committee, 2014-2015

Digital Scholarship Laboratory Director Search Committee, 2013

Interview Panelist for Instructional Designer Position Search | Center for Teaching Excellence, 2013

Faculty Advisor to Interdisciplinary Graduate Student Alt-Ac Group, 2013

Faculty Advisor to GEARR (Gender Equality & Reproductive Rights), 2013-2016

Organizer, Humanities Digital Interest Group's "Studio Sessions" noontime Speaker Series, 2012-2014

Member, Graduate College Working Group | *Work-Life Issues & Women Graduate Students*, 2012-2015

Coordinator: Humanities Digital Interest Group at OU, 2011-2015

Faculty Advisor to OU Student Group, Free the Planet! 2004-2006

Research Council, 2003-2006

Faculty Appeals Board, 2003-2007

Provost's Presidential Professorship Selection Committee, 2003-2006

Faculty Senate Development Award Selection Committee, 2003-2005

Faculty Mentor, Freshman Mentoring Program, 1997-1999

Writing Center Advisory Board, 1996-1998

Steering Committee, Human-Technology Interaction Center, 1996-2000

Chair, HTIC Research Committee on e-democracy, 1996-2000

college of arts and sciences service

CAS Executive Committee (2015)

A&S Scholarships and Awards Committee, 2011-2012

Coordinator, Distinguished Lectures in Digital Humanities Series, 2012-2014

Graduate Studies Committee | Women's and Gender Studies Program, 2010-2012

Faculty Support of Teaching and Research Committee, 2007-2008

Fellowship Award Selection Committee, 2005

FVS Third Year-Asst. Prof. Review Committee, 2005

College of Arts & Sciences Information Technology Committee, 2003-2006

College of Arts & Sciences Advisory Committee on Women's Issues, 2000-2001

Co-Coordinator, "Technology, Information, and People" Speakers' Series | CAS & Human-Technology Interaction Center, 1996-1997

department service

Committee A, 2021 (spring), 2009, 2007-2008, 2001-2003

Livesey Scholarship Award Committee, 2012

Co-Webmaster, Departmental Website Migration and Development, 2011-2012

Advisor, Undergraduate HSCI/MED/TECH Club, 2010-2011

Chair, Undergraduate Program Committee, 2007-2012

Chair, Undergraduate Program Review, 2007-2009

Chair, History of Modern Science Search Committee, 2006-2007
Department Colloquium Coordinator, 2006-2008 Honors College
Representative, 2002-2005
Undergraduate Advisor, 2007-2010, 1998-2001
Webmaster, 1998-2001
Andrew W. Mellon Postdoctoral Fellowship Committee Coordinator,
1997-1998 Andrew W. Mellon Postdoctoral Fellowship Committee, 1995-1998
Co-Graduate Advisor, 2000-2001