

Allison C. Marsh, Ph.D.

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Education

Johns Hopkins University, Baltimore, Maryland. PhD in History of Science, Medicine, and Technology, May 2008. Dissertation title: *The Ultimate Vacation: Watching Other People Work, The History of Factory Tours in the United States, 1890-1950*.

Swarthmore College, Swarthmore, Pennsylvania. BS in Engineering and BA in History, June 1998.

Appointments

University of South Carolina, Columbia. Founding Co-Director of the Ann Johnson Institute for Science, Technology & Society. July 2017–present.

University of South Carolina, Columbia. Associate Professor with tenure, January 2016–present.

University of South Carolina, Columbia. Director of Public History, October 2015–June 2017; July 2018–June 2019.

University of South Carolina, Columbia. Assistant Professor, August 2008–December 2015.

National Postal Museum, Smithsonian Institution, Washington, D.C. Winton M. Blount Research Chair, January 2008–July 2008.

National Postal Museum, Smithsonian Institution, Washington, D.C. Museum Specialist, September 2005–January 2008.

Johns Hopkins University, Baltimore, Maryland. Instructor, Summer and Fall 2004.

Print Publications

Books

An Eclectic Collection of Engineering Objects. Currently in discussions with MIT Press for this organized collection of my “Past Forward” articles.

The Factory: A Social History of Work and Technology. Greenwood: Santa Barbara, 2019. (Originally part of ABC-CLIO, now Bloomsbury.) Part of the Human Spaces Series, this textbook traces the history of industrialization in America through the material culture of the factory.

Refereed Articles and Essays

“This Belongs in a Museum! Maybe? Object Ethics and How Museums Shape the History We Tell.” *2023 8th IEEE History of Electrotechnology Conference (HISTELCON)*, Florence, Italy, 2023, pp. 1-4, doi: 10.1109/HISTELCON56357.2023.10365944.

- “Women in Microwaves: Ramona Foster.” *IEEE Journal of Microwaves*. Vol. 3, no. 4. October 2023. <https://ieeexplore.ieee.org/document/10271513>
- “Fellows Online: The User Experience.” *Technology and Culture*. Vol. 63, no. 4. October 2022.
- “Going Digital: The Research Library and the Pandemic.” (co-authored with Benjamin Gross) *Technology and Culture*. Vol. 63, no. 4. October 2022.
- “Women in Microwaves: Maria Rzepecka Stuchly.” *IEEE Journal of Microwaves*. Vol. 2, no. 1. January 2022. <https://ieeexplore.ieee.org/document/9628078>
- “Women in Microwaves: Linda Katchi.” *IEEE Journal of Microwaves*. Vol. 1, no. 3. July 2021. Co-author with undergraduate student Katherine Kuisel. <https://ieeexplore.ieee.org/document/9475882>
- “Crash Course History of Science: Popular Science for General Education?” *Isis: A Journal of the History of Science Society*. Vol. 111, no. 3, September 2020. Co-author with graduate student Bethany Johnson. <https://doi.org/10.1086/711083>
- “Taking the Factory to the Fair,” *Meet Me at the Fair: A World’s Fair Reader*. Eds. Pearce, Celia, Laura Hollengreen, Rebecca Rouse, and Bobby Schweizer. Carnegie Mellon / ETC Press, 2014.
- “Collective Forgetting: The Smithsonian’s Curatorial Crisis” *Issues in Science and Technology*. Summer, 2014. Lead author, with Lizzie Wade.
- “Sharing Credit: Public Historians and Scientists Reflecting on Collaboration,” *The Public Historian*. Vol. 35, no. 2, May 2013. Corresponding author, with S. Scripps, S. Goushroy, and L. Burgess.
- “Omeka in the Classroom: The Challenges of Teaching Material Culture in a Digital World,” *Literary and Linguistic Computing (LLC): The Journal of Digital Scholarship in the Humanities*, 2013. (doi: 10.1093/lc/fqs068)
- “Greetings from the Factory Floor: Industrial Tourism and the Picture Post Card,” *Curator*. vol. 51, no. 4, October 2008.

Past Forward

Past Forward is a monthly column in *Spectrum*, the flagship publication of the IEEE (Institute for Electrical and Electronic Engineers). The magazine print edition features a single image and an approximately 100-word caption, similar to a museum object label. Online articles include multiple images, embedded links, and additional audio/visual components as appropriate and typically run approximately 1,500 words. *Spectrum*’s global print circulation is approximately 420,000; the online features reach countless other audiences. (<https://spectrum.ieee.org/collections/past-forward/>)

- “This 1945 TV Console Showed Two Programs at Once.” <https://spectrum.ieee.org/dumont-duoscopic-tv-set>. July 2025.
- “This Little Mars Rover Stayed Home.” <https://spectrum.ieee.org/mars-pathfinder-rover>. June 2025.
- “Freddy the Robot Was the Fall Guy for British AI.” <https://spectrum.ieee.org/freddy-robot-british-ai-winter>. May 2025.
- “Before the Undo Command, There was the Electric Eraser.” <https://spectrum.ieee.org/electric-eraser>. April 2025.
- “The British Navy Resisted a Decent Lightning Rod for Decades.” <https://spectrum.ieee.org/lightning-rod-2671217505>. March 2025.
- “The Starting Line for Self-Driving Cars.” <https://spectrum.ieee.org/darpa-grand-challenge> February 2025.

- “Chuck E. Cheese’s Animatronics Band Bows Out.” <https://spectrum.ieee.org/chuck-e-cheese-animatronics>. December 2024.
- “The Unlikely Inventor of the Automatic Rice Cooker.” <https://spectrum.ieee.org/toshiba-rice-cooker>. October 2024.
- “The Incredible Story Behind the First Transistor Radio.” <https://spectrum.ieee.org/transistor-radio-invented>. September 2024.
- “The Saga of AD-X2, the Battery Additive that Roiled the NBS.” <https://spectrum.ieee.org/ad-x2-battery-additive>. August 2024
- “This Wearable Computer Made a Fashion Statement.” <https://spectrum.ieee.org/wearable-computer>. July 2024.
- “In 1926, TV was Mechanical.” <https://spectrum.ieee.org/first-tv>. September 2024.
- “Lord Kelvin and His Analog Computer.” <https://spectrum.ieee.org/tide-predictions>. June 2024.
- “A Brief History of the World’s First Planetarium.” <https://spectrum.ieee.org/planetarium-history>. May 2024.
- “Why L. Ron Hubbard Patented His E-Meter.” <https://spectrum.ieee.org/e-meter-history>. April 2024
- “This Clock Made Power Grids Possible.” <https://spectrum.ieee.org/history-of-power-grid>. March 2024.
- “What Is an Electronic Sackbut?” <https://spectrum.ieee.org/electronic-music>. February 2024.
- “The Cheesy Charm of the Clapper.” <https://spectrum.ieee.org/clapper>. January 2024.
- “A Brief History of the Office Cubicle.” <https://spectrum.ieee.org/office-cubicles>. November 2023.
- “The Marimba Virtuoso’s Desktop Planetarium.” <https://spectrum.ieee.org/desktop-planetarium>. October 2023.
- “Taking the Measure of the Earthquake That Destroyed Tokyo.” <https://spectrum.ieee.org/earthquake-detection>. September 2023.
- “The Cold War Arms Race Over Prosthetic Arms.” <https://spectrum.ieee.org/prosthetic-arm>. August 2023.
- “This 1920 Chess Automaton was Wired to Win.” <https://spectrum.ieee.org/chess-computer-1920>. July 2023.
- “James Wismhurst’s Immortality Machine.” <https://spectrum.ieee.org/wimshurst-machine>. June 2023.
- “Skylab: The Space Station that Fell on Australia.” <https://spectrum.ieee.org/skylab>. May 2023.
- “Tiny Exploding Houses Promoted 18th-Century Lightning Rods.” <https://spectrum.ieee.org/lightning-rod>. April 2023.
- “RCS’s Lucite Phantom Teleceiver Introduced the Idea of TV.” <https://spectrum.ieee.org/rca-tv>. February 2023.
- “Always Break Yolks: The Joy of Microwave Cooking.” <https://spectrum.ieee.org/microwave-oven>. January 2023.
- “John Bardeen’s Terrific Transistorized Music Box.” <https://spectrum.ieee.org/transistor-music-box>. December 2022.

- “Pong was Boring—And People Loved It.” <https://spectrum.ieee.org/pong-video-game>. November 2022.
- “The Electric Purple Snake-Oil Machine.” <https://spectrum.ieee.org/violet-ray>. October 2022.
- “In 1961, the First Robot Arm Punched In.” <https://spectrum.ieee.org/unimation-robot>. September 2022.
- “Will a Baby Born Today Grow up to Live Like the Jetsons?” <https://spectrum.ieee.org/the-jetsons>. August 2022.
- “Landsat Proved the Power of Remote Sensing.” <https://spectrum.ieee.org/landsat>. July 2022.
- “Charles Babbage’s Difference Engine Turns 200.” <https://spectrum.ieee.org/charles-babbage-difference-engine>. June 2022.
- “Did J.J. Thomson Discover the Electron?” <https://spectrum.ieee.org/discovery-of-the-electron>. May 2022.
- “What Texas Instruments’ Little Professor Can Teach Us.” <https://spectrum.ieee.org/texas-instruments-calculator>. April 2022.
- “With this Ruby Laser, George Porter Sped up Photochemistry.” <https://spectrum.ieee.org/ruby-laser-history>. March 2022.
- “The Long Road to Today’s Cochlear Implant.” <https://spectrum.ieee.org/cochlear-implant-history>. February 2022.
- “In 1989, General Magic Saw the Future of Smartphones.” <https://spectrum.ieee.org/general-magic-motorola-envoy>. January 2022.
- “When They Electrified Christmas.” <https://spectrum.ieee.org/history-electric-christmas-lights>. December 2021.
- “L. Frank Baum’s Cautionary Tale about the Gifts of Electricity.” <https://spectrum.ieee.org/l-frank-baum>. November 2021.
- “Irradiating the Mail: The Anthrax Attacks of 2001.” <https://spectrum.ieee.org/irradiating-the-mail-the-anthrax-attacks-of-2001>. October 2021.
- “200 Years Ago, Faraday Invented the Electric Motor.” <https://spectrum.ieee.org/200-years-ago-faraday-invented-the-electric-motor>. September 2021.
- “The Inventor of the Black Box was Told to Drop the Idea and “Get on with Blowing up Fuel Tanks.” <https://spectrum.ieee.org/the-inventor-of-the-black-box-was-told-to-drop-the-idea-and-get-on-with-blowing-up-fuel-tanks>. July 2021.
- “The Secondhand Origins of Silicon Valley’s Ingot Industry.” <https://spectrum.ieee.org/the-secondhand-origins-of-silicon-valleys-ingot-industry>. June 2021.
- “Getting Inked Up? Thank Thomas Edison.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/getting-inked-up-thank-thomas-edison>. May 2021.
- “Inside the Third Reich’s Radio.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/inside-the-third-reichs-radio>. April 2021.
- “Meet Catfish Charlie, the CIA’s Robotic Spy.” <https://spectrum.ieee.org/tech-history/silicon-revolution/meet-catfish-charlie-the-cias-robotic-spy>. March 2021.
- “The Inventions That Made Heart Disease Less Deadly.” <https://spectrum.ieee.org/tech-history/silicon-revolution/the-inventions-that-made-heart-disease-less-deadly>. February 2021.

- “How Counting Calories Became a Science.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/how-counting-calories-became-a-science>. January 2021.
- “When a Giant Mylar Balloon was the Coolest Thing in Space.” <https://spectrum.ieee.org/tech-history/space-age/when-a-giant-mylar-balloon-was-the-coolest-thing-in-space>. December 2020.
- “When X-Rays Were All the Rage, a Trip to the Shoe Store Was Dangerously Illuminating” <https://spectrum.ieee.org/tech-history/heroic-failures/when-xrays-were-all-the-rage-a-trip-to-the-shoe-store-was-dangerously-illuminating>. November 2020.
- “We’ve Been Killing Deadly Germs with UV Light for More than a Century.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/weve-been-killing-deadly-germs-with-uv-light-for-more-than-a-century> September 2020.
- “The Rich Tapestry of Fiber Optics.” <https://spectrum.ieee.org/tech-history/cyberspace/the-rich-tapestry-of-fiber-optics> August 2020.
- “How the Digital Camera Transformed Our Concept of History.” <https://spectrum.ieee.org/tech-history/silicon-revolution/how-the-digital-camera-transformed-our-concept-of-history> July 2020.
- “NASA’s Original Laptop: The GRiD Compass.” <https://spectrum.ieee.org/tech-history/silicon-revolution/nasas-original-laptop-the-grid-compass> June 2020.
- “Who Invented the Radio? Guglielmo Marconi or Aleksandr Popov?” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/who-invented-radio-guglielmo-marconi-or-aleksandr-popov> May 2020.
- “In World War I British Biplanes had Wireless Phones in the Cockpit.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/in-world-war-i-british-biplanes-had-wireless-phones-in-cockpit>. April 2020.
- “Meet the Roomba’s Ancestor: The Cybernetic Tortoise.” <https://spectrum.ieee.org/tech-history/space-age/meet-roombas-ancestor-cybernetic-tortoise>. March 2020.
- “Fun – And Uranium – For the Whole Family in this 1950s Science Kit.” <https://spectrum.ieee.org/tech-history/space-age/fun-and-uranium-for-the-whole-family-in-this-1950s-science-kit>. February 2020.
- “The Hidden Figures behind Bletchley Park’s Code-Breaking Colossus.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/the-hidden-figures-behind-bletchley-parks-codebreaking-colossus>. January 2020.
- “Hasbro’s Classic Game Operation was Sparked by a Grad Student’s Electric Idea.” <https://spectrum.ieee.org/tech-history/space-age/hasbros-classic-game-operation-was-sparked-by-a-grad-students-electric-idea>. December 2019.
- “The First Transatlantic Telegraph Cable was a Bold, Beautiful Failure.” <https://spectrum.ieee.org/tech-history/heroic-failures/the-first-transatlantic-telegraph-cable-was-a-bold-beautiful-failure>. November 2019.
- “How the Trautonium found Favor with Nazis and Gave Hitchcock’s *The Birds* its Distinctive Screech.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/how-the-trautonium-found-favor-with-nazis-and-gave-hitchcocks-emthe-birdsem-its-distinctive-screech>. October 2019.
- “How the Electric Hot Comb became an Entrepreneurial Tool.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/how-the-electric-hot-comb-became-an-entrepreneurial-tool>. September 2019.

- “A Brief History of the Lie Detector.” <https://spectrum.ieee.org/tech-history/heroic-failures/a-brief-history-of-the-lie-detector>. August 2019.
- “How NASA Recruited Snoopy and Drafted Barbie.” <https://spectrum.ieee.org/tech-history/space-age/how-nasa-recruited-snoopy-and-drafted-barbie>. July 2019.
- “This British Family Changed the Course of Engineering.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/this-british-family-changed-the-course-of-engineering>. June 2019.
- “In 1983 This Bell Labs Computer was the First Machine to Become a Chess Master.” <https://spectrum.ieee.org/tech-history/silicon-revolution/in-1983-this-bell-labs-computer-was-the-first-machine-to-become-a-chess-master>. May 2019.
- “Consider the Pigeon, a Surprisingly Capable Technology.” <https://spectrum.ieee.org/tech-history/silicon-revolution/consider-the-pigeon-a-surprisingly-capable-technology>. April 2019.
- “This 1850s Medical Device Was Said to Cure Toothache, Gangrene, and Ennui.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/this-1850s-medical-device-was-said-to-cure-toothache-gangrene-and-ennui>. March 2019.
- “In 1959, AT&T Discovered There was a Market for a Lady’s Phone.” <https://spectrum.ieee.org/tech-history/space-age/in-1959-att-discovered-there-was-a-market-for-a-ladys-phone>. February 2019.
- “Coded for Cuteness: How the Furby Conquered Hearts and Minds.” <https://spectrum.ieee.org/tech-history/silicon-revolution/coded-for-cuteness-how-the-furby-conquered-hearts-and-minds>. January 2019.
- “Ben Franklin’s *Other* Great Electrical Discovery: Tenderizing Turkeys.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/ben-franklins-iotheri-great-electrical-discovery-turkey-tenderization>. December 2018
- “From World War II Radar to Microwave Popcorn, the Cavity Magnetron was There.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/from-world-war-ii-radar-to-microwave-popcorn-the-cavity-magnetron-was-there>. November 2018.
- “Elektro the Moto Man Had the Biggest Brain at the 1939 World’s Fair.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/elektro-the-motoman-had-the-biggest-brain-at-the-1939-worlds-fair>. October 2018.
- “Morse Code’s Vanquished Competitor: The Dial Telegraph.” <https://spectrum.ieee.org/telecom/standards/morse-codes-vanquished-competitor-the-dial-telegraph>. September 2018.
- “For Some Reason These Quantum Mechanics Toys Just Didn’t Catch On.” <https://spectrum.ieee.org/tech-history/heroic-failures/for-some-reason-these-quantum-mechanics-toys-didnt-catch-on>. August 2018.
- “Forget Jet Packs – Why don’t we have Stair Climbing Wheelchairs?” <https://spectrum.ieee.org/tech-history/space-age/forget-jet-packswhy-dont-we-have-stairclimbing-wheelchairs>. July 2018.
- “You’ve Got Mail for the 19th Century.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/youve-got-mail-for-the-19th-century>. June 2018.
- “Particle Physics Resurrects Alexander Gram Bell’s Voice.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/particle-physics-resurrects-alexander-graham-bells-voice>. May 2018.

- “Edison and the King: How Hawaii became Electrified.” <https://spectrum.ieee.org/tech-history/dawn-of-electronics/edison-and-the-king-how-hawaii-became-electrified>. April 2018.
- “John Deere and the Birth of Precision Agriculture.” <https://spectrum.ieee.org/tech-history/silicon-revolution/john-deere-and-the-birth-of-precision-agriculture>. March 2018.
- “A Slide Rule for Real Programmers.” <https://spectrum.ieee.org/tech-history/silicon-revolution/a-slide-rule-for-real-programmers>. February 2018.
- “Meet the CIA’s Insectothopter.” <https://spectrum.ieee.org/tech-history/heroic-failures/meet-the-cias-insectothopter>. January 2018.

Other Publications

- “Collective Forgetting: The Smithsonian’s Curatorial Crisis” *Creative Non-Fiction*. Summer, 2014. Lead author, with Lizzie Wade.
- “Museums of Science and Technology,” *Encyclopedia of Science, Technology, and Ethics*. (Detroit: Macmillan Reference USA, 2014). Expanded and updated entry from 2005, see below.
- “The Ultimate Vacation,” September 2012. A gallery guide to accompany the exhibit of the same name. I authored the introductory essay and edited the remainder text, which was prepared by graduate students in my HIST 700R seminar in the spring of 2011. I also supervised the design, which was done by undergraduate graphic arts student Kristy Wong.
- “Imaging the Invisible: Lesson Plans, Activities, Further Readings,” August 2011. A 30-page gallery guide to accompany the *Imaging the Invisible* exhibit. I authored the introductory essay and edited the remainder text, which was prepared by undergraduate library and information science student Megan Coker. I also supervised the design, which was done by undergraduate graphic arts student Linda Fung.
- “Preserving a Letter from Washington’s Army at Camp Valley Forge.” Authored two-page spread in Janet Klug’s *Guide to Stamp Collecting*. (New York: Collins, 2007).
- “Read Our Lips: No Stealth Tax Hikes,” Letter to the Editor, *Wall Street Journal*, July 7, 2011. Letter citing effects of the elimination of the charitable tax donation on museum giving.
- “Inside the NPM” Ghost written Director’s Column for *American Philatelist*. November 2006.
- “Museums of Science and Technology,” *Encyclopedia of Science, Technology, and Ethics*. (Detroit: Macmillan Reference USA, 2005).

Reviews

- Book Review, *Extinct: A Compendium of Obsolete Objects*, ed. by Barbara Penner, Adrian Forty, Olivia Horsfall Turner, and Miranda Critchley. *Technology and Culture*, vol. 64, no. 2, April 2023.
- Blog Review, Time to Eat the Dogs, podcast on the history of science and exploration. *The Public Historian*, February 2020.
- Book Review, *The TVs of Tomorrow: How RCA’s Flat-Screen Dreams led to the First LCD*, by Benjamin Gross. *Distillations*, December 2019.
- Exhibit Review, *Places of Invention*. Smithsonian Institution, National Museum of American History, *Technology and Culture*, vol. 58, no. 3, July 2017.
- Book Review, *Places of Invention*, ed. by Arthur P. Molella and Anna Karvellas. *Technology and Culture*, vol. 58, no. 2, April 2017. doi: [10.1353/tech.2017.0071](https://doi.org/10.1353/tech.2017.0071)

Book Review, *Sustaining Identity, Recapturing Heritage: Exploring Issues of Public History, Tourism, and Race in a Southern Town*, by Ann Denkler. *Louisiana History: The Journal of the Louisiana Historical Association*, Summer 2013.

Museum Review, *Revolution! The First 2000 Years of Computing*. Computer History Museum, *Technology and Culture*, vol. 54, July 2013.

Book Review, *Do Museums Still Need Objects?* by Steven Conn. *Winterthur Portfolio*, vol. 45 no. 4, Winter 2011.

Museum Review, The Hershey Museum and Chocolate World. *The Public Historian*, vol. 33 no. 1, February 2011.

Book Review, *Inventing Modern America: From the Microwave to the Mouse*, by David E. Brown. *Rittenhouse: The Journal of the American Scientific Instrument Enterprise*, June 2004.

Museum Review, The Altoona Railroaders Memorial Museum. *Journal of Transport History*, March 2004.

Museum Research and Scholarship

Exhibits, Chief Curator

Thunder Houses and Lightning Rods, the Work of William Snow Harris, Linda Hall Library for Science, Engineering, and Technology, May-October, 2025. Single case exhibit in the main reading. Kansas City, MO.

Imaging the Invisible, McKissick Museum, August 12 – December 13, 2011. An exhibit on the history of scientific imaging. Funded by NSF grant #SES 0531160.

Disaster: Response & Recovery, Smithsonian Institution National Postal Museum, June 2007–December 2007. An exhibit on the postal service's response to natural and man-made disasters.

Postal Forum 2007, Washington Convention Center, 2007. An exhibit at the 2007 United States Postal Service annual convention that highlighted technological innovation in the 20th century in mail processing.

Out of the Mails, Smithsonian Institution National Postal Museum, December 2006–January 2008. An exhibit on the evolution of the American mail system at the time of the Revolutionary War.

Collaborative Team Member

Mann-Simons Cottage, Historic Columbia Foundation, in process. A reinterpretation of an African-American entrepreneurial family enterprise. (Project Leads: Fielding Fred and John Sherrer).

Woodrow Wilson Family Home, Historic Columbia Foundation, opened February 2014. A permanent exhibit on Columbia, SC during Reconstruction. Served on the scholarship/research team, drafted the exhibit concepts, wrote and edited text, and suggested design features. (Co-Curators: Fielding Freed and John Sherrer)

Systems at Work, Smithsonian Institution National Postal Museum, opened Fall 2011. A permanent exhibit on the evolution of the technology for distributing the mail. Led development of intellectual framework, exhibit themes, and initial object list. Raised \$1.3 million for the exhibit, primarily from the Motorola Foundation. Instituted an exhibit development wiki for collaboration with team members from associated industries.

From the Pee Dee to the Savannah: Enduring Legacies of South Carolina's Fall Line Region, South Carolina State Museum, September 24, 2009 – March 22, 2010. An exhibit developed by the Fall Line Consortium to showcase the stories and artifacts of South Carolina's central fall line region. Conducted background research. (Co-Curators: Paul Matheny and John Sherrer)

R2D2 Mailbox, National Air and Space Museum, Udvar-Hazy Center, 2008 – present. Wrote object label and coordinated long-term loan from the National Postal Museum for this small exhibit showing everyday objects with space themes.

Victory Mail, Smithsonian Institution National Postal Museum, 2008-2011. Contributed to development of exhibit themes; reviewed design, text, graphics, and objects. (Chief Curator: Lynn Heidelbaugh)

Postal Inspectors: The Silent Service, Smithsonian Institution National Postal Museum, 2007-2011. Provided peer review and copy editing for this exhibit. (Chief Curator: Nancy Pope)

Community and the Post, Smithsonian Institution National Postal Museum. A planned permanent exhibit focusing on how post offices and the mail bring together diverse communities. Led development of intellectual framework, exhibit themes, and initial object list, although ultimately the exhibit was not funded.

America on the Move, Smithsonian Institution National Museum of American History, November 2003 – present. A permanent exhibit tracing the history of transportation in America. Checked facts for exhibit labels and provided new research for several components, wrote label copy, and developed a mechanical interactive. (Project Director: Steven Lubar)

Forces of Nature, The Franklin Institute Science Museum, a travelling exhibit on natural disasters. Edited copy and selected photos.

Museum Education and Supervision

The Guantanamo Public Memory Project, McKissick Museum, September 17 – November 21, 2015. A temporary exhibit that supplemented the traveling exhibit of the same name. Developed by students in HIST 789.

The Ultimate Vacation, McKissick Museum, September 7 – December 13, 2012. A temporary exhibit showcasing the history of industrial tourism in the United States. Developed by students in HIST 700R *Eat. Shop. Work. Play*. Funded in part through the Brook Hindle Fellowship, the Lemelson Center Travel to Collections Award, and the Arts and Humanities Provost grant (internal USC competition).

McKissick's Mysteries, McKissick Museum, August 30 – November 6, 2010. A recurring temporary exhibit highlighting student research on poorly documented objects in the McKissick's collection. Curated in conjunction with HIST 787: Material Culture course.

Columbia's Showplace, McKissick Museum, Summer 2010. Advised students on the development of the exhibit, an extension of the work they completed for the course HIST 492K *Museums and Monuments*.

Virginia Aviation Museum, Richmond, VA, Summer 1997. Wrote history and science curriculum guides, including information on exhibits, lesson plans and post-visit activities, for elementary school teachers to integrate museum visits with statewide learning standards.

Digital Publications:

Online Articles

“Mabel MacFerran Rockwell.” Wrote initial article for Wikipedia, and it was featured on the front page in the DYK section on July 6, 2025.

https://en.wikipedia.org/wiki/Mabel_MacFerran_Rockwell

“Why Engineers Still Need the Humanities.” *IEEE Spectrum*, May 5, 2025.

<https://spectrum.ieee.org/engineering-and-humanities>.

“The First Virtual Meeting Was in 1916.” *IEEE Spectrum*, November 13, 2024.

<https://spectrum.ieee.org/virtual-meeting>.

“What We Lose When We Lose Museums.” *IEEE Spectrum*, November 9, 2020. Co-authored with David Brock. <https://spectrum.ieee.org/tech-talk/at-work/education/what-we-lose-when-we-lose-museums>.

“An Engineer, His Segway, and the ADA: A Tale of the Open Road.” *Spectrum*. August 5, 2020. <https://spectrum.ieee.org/tech-talk/consumer-electronics/gadgets/an-engineer-his-segway-and-the-ada-a-tale-of-the-open-road>

Online Videos

I wrote and narrated these videos in collaboration with *IEEE Spectrum* and Asianometry. A videographer compiled the images and produced the video.

- “Oppenheimer’s BFF Invented Color TV.” https://www.youtube.com/watch?v=SxvVO9LLG_w. Uploaded September 15, 2024.
- “Why Early Tech Giants Couldn’t Agree on Color TV.” <https://www.youtube.com/watch?v=PCEMDnCNM6E>. Uploaded September 15, 2024.

Online Exhibits

Online exhibits are often the result of team collaboration with design by outside vendors; online exhibits run the gamut from more broadly disseminating the text in a physical exhibit to vastly extending the original exhibit with supplementary research and resources or online articles.

Out of the Mails. A permanent exhibit website extending interpretation from the temporary physical exhibit *Out of the Mails* at the Smithsonian National Postal Museum. The online exhibit includes all text from the physical exhibit, plus transcription of letters, additional research notes, and family activities. Website developed by interns Sarah Stella and Alyson Turley using research compiled by Allison Marsh. <http://postalmuseum.si.edu/outofthemails/>. December 2006.

"What is an emblem?" A thematic essay connecting objects and extending interpretation in the permanent physical exhibit *America on the Move* at the Smithsonian National Museum of American History. November 2003. (no longer available online)

"American Racing: A Diversity of Innovation" (co-authored with Bill Withun). A thematic essay connecting objects and extending interpretation in the permanent physical exhibit *America on the Move* at the Smithsonian National Museum of American History. November 2003. (no longer available online)

Online Collections Databases

Online collection databases are similar to searchable exhibit catalogs. They include short descriptions, ranging from a few sentences to a few paragraphs, of individual objects in a museum’s collection.

EDAN, *Bulletin 173*.

http://collections.si.edu/search/results.htm?q=set_name%3A%22Bulletin+173%22. Internally reviewed, unauthored entries. Smithsonian Institution. Compiled 128 descriptions for

mechanical and civil engineering objects in the National Museum of American History based on a 1939 catalog of the collections. Launched in 2013.

EDAN, Engine Indicators.

http://collections.si.edu/search/results.htm?q=set_name:%22Indicators%22. Internally reviewed, unauthored entries. Smithsonian Institution. Compiled 57 object descriptions for engine indicators in the mechanical and civil engineering collections of the National Museum of American History. Launched in 2013.

Arago. <http://arago.si.edu>. Internally and externally peer reviewed, authored entries. National Postal Museum. Wrote and edited more than 200 object and narrative descriptions. Launched in 2006.

On the Move. <http://americanhistory.si.edu/onthemove>. Internally reviewed, unauthored entries. National Museum of American History, transportation collection database. Wrote more than 150 descriptions for object database and coordinated content for website. Launched in 2003.

Object of the Month

From 2006 to 2008 I wrote seven online essays of approximately 500 words interpreting a single object in the collection of the Smithsonian National Postal Museum. The dates listed are their original publication dates – the month they were the link from the Postal Museum’s home page. The content is no longer available online.

- “Medicine and the Mail: Schermack Vending Machine.” August 2008.
- “Bonbobi Mailbox.” January 2008.
- “French Cancelling Machine.” November 2007.
- “Leavitt Patent Models.” June 2007.
- “Valley Forge Letter.” January 2007.
- “Transorma Letter Sorting Machine.” July 2006.
- “US Postal Bag Prototype.” March 2006.

Blogs

Blogs are designed to post information quickly with an informal tone. The posts below are all on moderated blogs sponsored by learned societies or national institutions. They are authored entries that have gone through an editorial review.

O Say Can You See? Smithsonian National Museum of American History. Peer reviewed blog with authored entries. <http://blog.americanhistory.si.edu/osaycanyousee>.

“Water, water everywhere: The history behind Columbia, South Carolina’s troubled canal.” October 9, 2015. <http://americanhistory.si.edu/blog/columbia-south-carolinas-troubled-canal>

“CATCH it while you can: 20th anniversary of the cancellation of the Superconducting Super Collider.” October 21, 2013.
<http://blog.americanhistory.si.edu/osaycanyousee/2013/10/catch-it-while-you-can-20th-anniversary-of-the-cancellation-of-the-superconducting-super-collider.html>

“Happy birthday, Grand Central! Let’s see what you’re made of...” February 2, 2013.
<http://blog.americanhistory.si.edu/osaycanyousee/2013/02/happy-birthday-grand-central-lets-see-what-youre-made-of.html>

National Council on Public History *Off the Wall* Blog. Moderated blog with authored entries and identified commentators. <http://ncphoffthewall.blogspot.com>.

“Witnessing ‘history?’” July 22, 2011.

<http://ncphoffthewall.blogspot.com/2011/07/witnessing-history.html>.

“Classified past.” June 7, 2011. <http://ncphoffthewall.blogspot.com/2011/06/classified-past.html>.

“History on the Menu.” September 30, 2010.

<http://ncphoffthewall.blogspot.com/2010/09/history-on-menu.html>.

Oral History Projects

Women in Microwave Science and Engineering. Working in conjunction with the IEEE History Center and the *Journal on Microwaves*, this project focuses on women in the subfield of microwave engineering. January 2021 – present.

UofSC Public History Alumni Project. Led graduate students in an oral history seminar to conduct 36 interviews with program alumni. Fall 2016.

Guantanamo Public History Project. Led one dozen graduate students on a site visit to the Guantanamo Naval Base (Cuba) to interview base residents on daily life in one of the most extraordinary places. Conducted more than 40 interviews with military, federal employees, civilian contractors, dependents, and foreign nationals. Spring 2015.

Invited Papers and Seminars:

“Why Engineers Still Need the Humanities.” Consortium for the History of Science, Technology, and Medicine, Engineering Studies Working Group. Online. May 23, 2025.

“Museums as Sites of Research.” Spaces of Inquiry Book Manuscript Workshop. Johns Hopkins University. Baltimore, MD. April 2023.

“A Brief History of the Cosmos.” Keynote lecture, IEEE Columbia Section’s 50th Anniversary Celebration. Columbia, SC. September 9, 2022.

“Designing the Lasso of Truth: A History of the Polygraph.” Fraud and Forensics Accounting Conference. Baton Rouge, Louisiana. July 7, 2022.

“Crafting your Legacy: Women in the Sciences.” Invited seminar hosted by Vaidhyanathan Ramamurthy, University of Miami, April 14, 2022.

“Teaching with Objects, Learning with Video: The Challenges of Informal Education in Physics.” Plenary talk. German Physical Society. Heidelberg, Germany. March 2022.

“Learning with Objects.” American Association for Physics Teachers. Virtual Conference, August 2021.

“Crash Course: How Hank Green is Changing the History of Science.” Mississippi State University, CHASES Speaker Series. Starkville, Mississippi, February 2019.

“What is being indicated? The National Museum of American History's engine indicator collection.” Chemical Heritage Foundation Cain Conference, Scientific Instrument Collections: History and Heritage, Philadelphia, Pennsylvania, April 2018.

Public History Summer Institute, Institute for Advanced Studies in Humanities and Social Sciences, Invited Guest Faculty, Chongqing University, China. July 2015.

- “How We Collaborate and Connect – The Impact and Importance of Infusing Policy into Narrative.” Consortium for Science, Policy, and Outcomes, Arizona State University, Tempe, Arizona, September 10, 2014.
- “To Think, To Write, To Publish: Authors Talk.” National Academy of Science, Washington, DC, June 2, 2014.
- “To Provoke Curiosity, Inspire Wonder, and Foster Life-Long Learning.” Michigan State University Museum, East Lansing, Michigan, April 5, 2014.
- “Rethinking a National Engineering Collection: A View from the Smithsonian.” The States’ Stake in Science, BiCoDa conference, Bielefeld, Germany, July 10, 2013.
- Reading Artifacts Summer Institute, Canada Science and Technology Museum, Keynote Guest Faculty, Ottawa, Canada. August 13-17, 2012.

Conference Papers, Posters, and Academic Presentations:

- “Current Politics of Research, a Roundtable Discussion.” Society for the History of Technology. Luxembourg. October 2025.
- “Perspectives from Public History, Which has Been Struggling with Peer Review for Decades.” New Directions in Science Funding workshop. Consortium for Socially Relevant Philosophy of/in Science and Engineering. Online. July 2025.
- “Ladies will be Present: The Women of the IRE, and IEEE.” 27th International Congress for the History of Technology. Dunedin, New Zealand. July 2025.
- “The Engineering Societies Library.” Midwest Junto for the History of Science. Rolla, Missouri. March 2025.
- “Workshop on Writing for Everyone: Insights from IEEE Spectrum.” Session organizer and discussant, Joint ICOHTEC-SHOT Meeting. Viña del Mar, Chile. July 2024.
- “STS and Service Learning.” Session organizer and discussant, Society for the Social Studies of Science. Honolulu, Hawaii. November 2023.
- “Thinking with Things.” Session chair. Society for the History of Technology. Long Beach, California. October 2023.
- “How are Women in STEM Represented in Museums? (Very Poorly).” Women in Science: Opportunities conference organized by the American Philosophical Society. Philadelphia, Pennsylvania. October 2023.
- “Advocacy Essentials for South Carolina Museums.” Roundtable participant. South Carolina Federation of Museums annual conference. Lexington, South Carolina. September 2023.
- “This Belongs in a Museum! Maybe? Object Ethics and How Museums Shape the History We Tell.” Paper presented at HISTELCON 2023. Florence, Italy. September 2023.
- “Object Lessons from Past Forward.” Paper presented at the International Congress for the History of Technology. Tallinn/Tartu, Estonia. August 2023.
- “Crafting Your Legacy: Representation of Women in Museums, Libraries, and Archives.” Paper presented at Women in Engineering International Leadership Conference. San Diego, California. June 6, 2022.
- “Education at a Crossroads: The Urgent Need for Public History for Youth Audiences.” Roundtable Participant. National Council on Public History annual meeting. Virtual conference. March 2022.

- “Navigating the Profession with Chronic Illness or Invisible Disabilities.” Chair and roundtable participant. Society for the History of Technology and History of Science Society co-located annual meetings. Note that this session was accepted by both societies and listed on both programs. Virtual conference. November 2021.
- “Digital Futures in the History of Science and Technology.” Roundtable participant. Society for the History of Technology and History of Science Society co-located annual meetings. Note that this session was accepted by both societies and listed on both programs. November 2021.
- “Big History in 10-Minute Videos: How Highlights Help Survey Courses.” (Co-written with Bethany Johnson.) 26th International Congress of History of Science and Technology. Virtual Conference, July 2021.
- “The Accidental Archive.” Paper presented at the 2021 National Council on Public History annual meeting. Virtual conference. March 2021.
- “Past Forward: Material Culture and the History of Electrical Engineering.” Paper presented at the 2019 Society for the History of Technology annual meeting. Milan, Italy. October 2019.
- “New Directions in the History of Science and Science Education.” Roundtable participant. History of Science Society annual meeting. Utrecht, Netherlands. July 2019.
- “Who Needs Museum Exhibition Reviews?” Roundtable participant. National Council on Public History. Hartford, Connecticut. March 2019.
- “Science, Technology, and Society: Breaking Down Disciplinary Silos.” Paper presented at the 2018 Geological Society of America. Indianapolis, Indiana. November 2018.
- “Recognizing Landmarks in the History of Technology.” Author of paper in a You Write, I Present session at the 2018 Society for the History of Technology. St. Louis, Missouri. October 2018.
- “What Do Public History Employers Want?” A Report from the National Council on Public History.” Roundtable participant. 132nd Meeting of the American Historical Association. Washington, DC, January 2018.
- “Thinking with Ann Johnson.” Roundtable contributor at a special memorial session at the Society for the History of Technology. Philadelphia, Pennsylvania. October 2017.
- “IEEE Milestones as a Sections Activity.” Paper presented at the 2017 IEEE Sections Congress. Sydney, Australia, August 2017.
- “Contributing to IEEE History.” Paper presented at the 2017 IEEE Sections Congress. Sydney, Australia, August 2017.
- “IEEE’s Historical Activities.” Report presented at the 4th Maui Meeting of the Institute for Electrical Engineers of Japan (IEEJ). Tokyo, Japan, 2017. (with Michael Geselowitz)
- “Recognizing the Achievement of Women through the IEEE Milestone Program.” Paper presented at HISTELCON 2017, Kobe, Japan, August 2017.
- “Maintaining Museums: Examining our Crumbling Cultural Infrastructure.” Paper presented at the Maintainers II conference. Hoboken, New Jersey, April 2017.
- “Teaching Public History.” Half-day workshop facilitator. National Council on Public History (NCPH), Baltimore, Maryland, March 2016.
- “Putting Theory into Practice: Making Your Case for Promotion and Tenure.” Half-day workshop facilitator. National Council on Public History (NCPH), Baltimore, Maryland, March 2016.
- “The Woodrow Wilson Family Home: Our Story of a Radical Makeover.” Roundtable participant. National Council on Public History (NCPH), Nashville, Tennessee, April 2015.

- “Engineering History: Making a Legacy Collection Modern.” Roundtable participant. Society for the History of Technology (SHOT), Dearborn, Michigan. November 2014.
- “Reaching Broader Audiences: The Public History of Technology.” Session Commenter. Society for the History of Technology (SHOT), Dearborn, Michigan. November 2014.
- “Sustainable Museum: Multi-Perspective Discussion on Collections, Exhibitions, Sponsorship, and Visitor Experience in the Context of Museum Operations.” Roundtable participant. National Council on Public History (NCPH), Monterey, California, March 2014.
- “Exhibiting Local Enterprise.” Co-coordinated the working group (with Celia James, Anjuli Grantham, and Claire White). National Council on Public History (NCPH), Ottawa, Canada. April 2013.
- “Greasing the Wheels.” Paper presented at the Annual Conference on Stuff: Grease, National Museum of American History, Washington, DC. April 1, 2013.
- “Because Engineers Rule the World.” Paper presented at the National Museum of American History’s colloquium series, Washington, DC. March 26, 2013.
- “Resurrecting Orphaned Collections: Mechanical and Civil Engineering at the National Museum of American History.” University of South Carolina Mechanical Engineering Graduate Seminar, Columbia, South Carolina, October 12, 2012.
- “Teaching with Objects.” Paper presented at the 2012 combined annual meeting of the Organization of American Historians (OAH) and the National Council on Public History (NCPH), Milwaukee, Wisconsin. April 21, 2012.
- “Biography and Museums.” Working group participant. National Council on Public History (NCPH), Milwaukee, Wisconsin. April 2012.
- “Graphs, Maps, and Trees: Imagining the Future of Public Interfaces to Cultural Heritage Collections.” Working group participant. <http://www.visualizingthepast.org/>. National Council on Public History (NCPH), Milwaukee, Wisconsin. April 2012.
- “You, Too, Can See What Galileo Did.” Paper presented at the 2011 History of Science Society (HSS) annual conference, Cleveland, Ohio. November 5, 2011.
- “Museum Advocacy.” Roundtable participant at the 2011 Southeastern Museum Conference, Greenville, South Carolina. October 26, 2011.
- “Omeka in the Classroom.” Paper presented at the 2011 Digital Humanities conference, Stanford, California. June 22, 2011.
- “What is Digital History?” Led a Varieties of History seminar for the University of South Carolina History Center, Columbia, South Carolina. October 27, 2010. (with Jennifer Guiliano)
- “Introduction to Public History Textbook” Working group participant. National Council on Public History (NCPH). April 2009– 2010.
- “Come See Quality Being Made: Touring Henry Ford’s Highland Park Facility.” Paper presented at the 2010 Society of Automotive History and National Association of Automotive Museums conference, Tupelo, Mississippi. March 27, 2010.
- “The Pipeline and the People: Driving the Dalton Highway.” Paper presented at the 2009 Society for the History of Technology (SHOT) annual conference, Pittsburgh, Pennsylvania. October 2009.
- “Mailing to the Ends of the Earth.” Poster presented at the NSF sponsored *Making Science Global* conference in conjunction with International Polar Year, Washington, D.C. October 31– November 1, 2007. (with Lynn Heidelbaugh)
- “Good Ketchup Needs No Drugs.” Paper presented at the 2007 American Association for the History of Medicine (AAHM) annual conference, Montreal, Canada. April 2007.

- "Volunteer Researchers and a Digital Collection: The Arago Project." Paper delivered at the 2007 National Council on Public History (NCPH) annual conference, Santa Fe, New Mexico. April 2007.
- "Community and the Post: The Challenges of Exhibiting Values in a Museum." Paper delivered at the 2007 Organization of American Historians (OAH) annual conference, Minneapolis, Minnesota. March 2007.
- "Emerging Research Methodologies: eBay and Oral History." Paper delivered at the 2006 International Oral History Association (IOHA) annual conference, Sydney, Australia. July 14, 2006.
- "35,000 People Can't Be Wrong: Heinz and Public Opinion." Paper delivered at the 2005 American Studies Association (ASA) annual conference, Washington, D.C. October 2005.
- "Greetings from the Shop Floor: Industrial Tourists and the Picture Postcard." Paper delivered at the 2005 National Council on Public History (NCPH) annual conference, Kansas City, Missouri. April 15, 2005.
- "The Industrial Tourist at the Fair." Paper delivered at the World's Fair Symposium, a pre-conference to the Organization of American Historians (OAH) annual conference, San Francisco, California. March 30, 2005.
- "The Factory Tour Capital of the World." Paper delivered at the "What I did on my Summer Vacation" mini-conference at Columbia University, New York, New York. March 3, 2005.
- "Alternative Museum Spaces." Paper delivered at the 2004 Society for the History of Technology (SHOT) annual conference, Amsterdam, Netherlands. October 2004.
- "Touring the Technological Landscape." Paper delivered at the 2004 International Congress of the History of Technology (ICOHTEC) annual conference, Bochum, Germany. August 2004.
- "Tracking the PUMA: The Life of an Industrial Robot." Poster presented at the IEEE History of Electronics conference, Bletchley Park, England. June 2004.

Conference Organization:

- Public History of Science and Technology (co-coordinated with Ann Johnson), a conference on how the public interacts with science. Columbia, SC. September 2011.
- Technologies, Technologists, and Networks (co-coordinated with Andrew Butica), a conference on the history of communication held as a pre-conference for Society for the History of Technology annual meeting. Washington, D.C. October 2007.
- Winton M. Blount Symposium on Postal History (co-coordinated with Cheryl Ganz), a conference bringing together academics and philatelists. Washington, D.C. October 2006.

Contracting, Consulting, and Advisory Positions

- "Strategic Plan for Creating an Archive at NPM, Part 2." Smithsonian National Postal Museum, Contract Consultant, June 1 – August 16, 2021. Reviewed the museum's archival holdings on site and amended report with recommendations for establishing a formal archive at the museum.
- "Strategic Plan for Creating an Archive at NPM." Smithsonian National Postal Museum, Contract Consultant, June 1 – August 15, 2020. Surveyed the museum's archival holdings and submitted report with recommendations for establishing a formal archive at the museum.

The Bag Lady: The Story of Margaret Knight, Consultant, November 2019 – present. Advising screenwriters on factory life in the mid-19th century. Film short looking to premier.

Crash Course History of Science, Consultant, December 2017-June 2019. Created syllabus for this 46-episode online course, reviewed and edited scripts, and reviewed animation.

Introduction: <https://www.youtube.com/watch?v=YvtCLceNf30>

Pre-Socratics: <https://www.youtube.com/watch?v=epCOGAa7tRQ>

Plato & Aristotle: <https://www.youtube.com/watch?v=rh0fxJkvL44>

India: <https://www.youtube.com/watch?v=bDQkpNbsly4>

The Americas and Time Keeping: <https://www.youtube.com/watch?v=dCBDUDwaeCA>

Roman Engineering: https://www.youtube.com/watch?v=GcReek3z_38

The Medieval Islamicate World: <https://www.youtube.com/watch?v=bkVsus8Ehxs>

Medieval China: <https://youtu.be/F6Su3rBxea8>

Ancient and Medieval Medicine: <https://youtu.be/iGiZXQVGpbY>

Alchemy: <https://youtu.be/gxiLuz9kHi0>

Cathedrals and Universities: <https://youtu.be/0wDILwLIFeI>

The Scientific Revolution: <https://youtu.be/vzo8vnxSARg>

The New Astronomy: https://youtu.be/-FYvy3_egHw

The Scientific Methods: <https://youtu.be/UdQreBq6MOY>

The New Anatomy: <https://youtu.be/3FX07HzYyqI>

The Columbian Exchange: <https://youtu.be/3FX07HzYyqI>

Newton and Leibnitz: <https://youtu.be/3FX07HzYyqI>

The New Chemistry: https://youtu.be/_M694ED8GtI

Biology Before Darwin: https://youtu.be/K4CKmYSMT_0

Earth Science: https://youtu.be/K4CKmYSMT_0

The Industrial Revolution: <https://youtu.be/FCpqN7GmLYk>

Darwin and Natural Selection: <https://youtu.be/dfsUz2O2jww>

Eugenics and Francis Galton: <https://youtu.be/JeCKftkNKJ0>

Micro-Biology: <https://youtu.be/2JdBH2tys6M>

Genetics – Lost and Found: <https://youtu.be/QmiwQ0Kosa8>

Thermodynamics: <https://youtu.be/VpiLucwH-AQ>

Electricity: <https://youtu.be/JoscDcbAjbY>

Ford, Cars, and a New Revolution: <https://youtu.be/UPvwpYeOJnI>

Cinema, Radio, and Television: <https://youtu.be/go3AwYghhdI>

The Mind/Brain: <https://youtu.be/bmsTvIJamIs>

Marie Curie and Spooky Rays: <https://youtu.be/7qlRjqUMX4E>

Einstein's Revolution: <https://youtu.be/NgVSHXOz3jI>

The Atomic Bomb: <https://youtu.be/w4q1fG1vh5I>

Biomedicine: <https://youtu.be/gQGwqA22s5s>

Genetics and the Modern Synthesis: <https://youtu.be/gQGwqA22s5s>

The Computers and Turing: <https://youtu.be/3xdmEwTIsd0>

Air Travel and the Space Race: <https://youtu.be/QhULJr-LKbg>

Ecology: <https://youtu.be/KrwtWKPACRs>

Controlling the Environment: https://youtu.be/b51G5sB2_hM

Biotechnology: <https://youtu.be/Qo9gcZ0r8k8>

Bodies and Dollars: <https://youtu.be/RZvvZslgEWk>

The Century of the Gene: <https://youtu.be/TUvquCOGs3U>

The Internet and Computing: <https://youtu.be/ur9aGqcmq8M>

Life and Longevity: <https://youtu.be/jlfFcPYaJlc>

Climate Science: <https://youtu.be/LsFdROZ2OdA>

The Limits of History: https://youtu.be/EhBhP-zk0_I

Guantanamo, Consultant, August 2017. Advising the Showtime scripted drama directed by Oliver Stone on daily life at GTMO.

- Historic Columbia, External Reviewer, Spring 2017. Reviewed script for reinterpretation of the Hampton-Preston Mansion.
- Livingston Online, Advisory Board Member, September 2013–2016. Outside Advisory Board Member for this NEH funded project. (Project Directors: Chris Lawrence and Adrian Wisnicki)
- Congaree National Park, Advisor Board Member, 2013. Workshopped the NPS Long Term Interpretive Plan for the site.
- National Museum of American History, Washington, DC, Peer Reviewer, 2013. One of two peer reviewers for the feasibility study of the *William Tecumseh Sherman: New Perspectives from Smithsonian Collections*. (Project Director: David Allison)
- Central Intelligence Agency Museum, Langley, Virginia, Consultant, 2010-2013. Advised museum on their strategic, collecting, and interpretive plans.
- Tom Yawkey Wildlife Center, Georgetown, South Carolina. Grant Advisory Board Member, August 2008–2010. Supervising a two-year grant funded research project surveying public history at the center.
- National Inventors Hall of Fame, Akron, Ohio. Contract Researcher, June 2005–November 2005. Wrote biographies for 25 candidates for induction into the NIHF. Candidates were all 19th century inventors and patent holders.

Public Outreach

- “Ladies will be Present.” Evening lecture at the Linda Hall Library. Kansas City, Missouri. August 14, 2025.
- “Ladies will be Present.” Inaugural event of the Latte Lab series of morning presentations and discussions with select members of the Linda Hall Library. June 5, 2025.
- Interviewed by David Stankiewicz for the Forums of the Future podcast on the first virtual meeting in 1916. https://youtu.be/eyarhaqj-Y?si=k7QDF7vSDQBfX2_C. February 7, 2025
- Interviewed by Kalee Pelie, Linda Hall Library, for the podcast Women in Stem, on my role as both an engineer and a historian. <https://www.youtube.com/watch?v=3j3HBm0cO7s>. December 2024.
- “Hidden Figures No More.” An invited talk at the South Carolina section of the Association of Women in Mathematics. September 17, 2020.
- Interviewed by Hannah McCarthy, New Hampshire Public Radio, for the podcast Civics 101, on the history of the postal service. Episode originally aired May 2020.
- Interviewed in the *Post and Courier* (Charleston, SC) on the challenges of fundraising for museums, particularly the SC Confederate Relic Room and Military Museum. November 7, 2019. https://www.postandcourier.com/business/sc-confederate-relic-room-considers-name-change-to-win-corporate/article_0c394046-ffdf-11e9-9af5-43b9e6f34198.html
- Live radio interview on Top of Mind with Julia Rose on BYU Radio, which is heard nationally on Sirius XM. Discussed the electrification of Hawaii. August 23, 2018. <https://www.byuradio.org/episode/9934958c-9575-44b0-9581-ca8ef9f41a56?playhead=1163&autoplay=true>
- “The Curious Path of Curators.” A public talk at the South Carolina State Museum. January 16, 2018.
- “A History of the Cosmos in 20 Minutes.” A public presentation as part of the Total Eclipse Weekend activities, sponsored by UofSC’s Department of Physics and Astronomy. August 21, 2017.

“Fashioning Our Bodies: A Conversation on Size, Shape, and Fashion.” Panel discussant. 701 Center for Contemporary Arts. February 7, 2016.

Interviewed in the *Post and Courier* (Charleston, SC) on oral history project at Guantanamo Bay. September 13, 2015.

<http://www.postandcourier.com/article/20150913/PC16/150919823/1177/security-at-guantanamo-bay-could-be-replicated-at-naval-brig-experts-say>

Interviewed in *The State* (Columbia, SC) on Guantanamo Public Memory Project. This Associated Press story ran in numerous other newspapers.

<http://www.thestate.com/2015/03/07/4030818/grad-students-gather-history-at.html>

Interviewed on “Press Play with Madeleine Brand” for KCRW, Southern California’s flagship NPR station, about the Smithsonian’s orphaned collections. Originally aired July 22, 2014.

<http://www.kcrw.com/news-culture/shows/press-play-with-madeleine-brand/lovely-lawns-problematic-palms-and-smithsonian-orphans/smithsonian2019s-orphans>

Interviewed by Mark Athitakis for *Pacific Standard* on the history of factory tours. July 2014.

Led a tour of the Smithsonian Engineering Collections for Senator Martin Heinrich (D-NM) and Dr. Wayne Clough (Secretary of the Smithsonian) July 18, 2013.

Interviewed by Katy Waldman for Slate.com on the history of factory tours. Resulting article, “See Sausage, Cars, and Chocolate Get Made” posted October 10, 2012:

<http://hive.slate.com/hive/made-america-how-reinvent-american-manufacturing/article/how-sausage-cars-and-chocolate-get-made>.

Interviewed by David Hoekman for *Group Tour Magazine* on the history of factory tours. Resulting article, “Witnessing Production: Factory Tours give Visitors Behind the Scenes Look at Manufacturing.” Winter 2012.

<http://www.grouptourmedia.com/emag/2511NOGT/2511NOGT.pdf>.

Interviewed by Richard Anderson for the History @ Work blog, posted April 16, 2012:

<http://publichistorycommons.org/what-counts-as-a-public-history-dissertation/#more-1255>.

Interviewed on camera by Andy Burns on WOLO (Columbia, SC, ABC affiliate) for the 12:00 noon news; discussed *Imaging the Invisible* exhibit. November 18, 2011.

Interviewed by Craig Brandhorst, higher education reporter for the *Free Times*, for a story on *Imaging the Invisible*. Resulting story, “Seeing the Unseen: Exhibit Explores Microscopy, Underwater Photography, Nano-Scale Imaging and More,” September 7, 2011, http://www.free-times.com/index.php?cat=1992912064025693&ShowArticle_ID=11010709112765552.

Interviewed by Charlie Sowell of the *Greenville Journal* on the last space shuttle launch. Resulting story, “Determination: How South Carolina helped propel the era of manned space flight,” July 14, 2011, <http://www.journalwatchdog.com/state/1157-determination>.

Co-coordinated (with Ann Johnson) the South Carolina Citizen’s School for Science and Technology of the Civil War, an 8-part lecture series. Spring, 2011.

Interviewed on camera by WIS (Columbia, SC, NBC affiliate) for the 11:00 pm news; discussed engineering ethics and public memory for a piece on the 25th anniversary of the *Challenger* disaster. January 28, 2011.

Interviewed on camera by WOLO (Columbia, SC, ABC affiliate) for the 6:00 pm news; discussed public memory for a piece on the 25th anniversary of the *Challenger* disaster. January 28, 2011.

“The History of How We View the Brain.” A public lecture for Brain Awareness Week at the University of South Carolina. March 19, 2009.

- “History is cool!” Curator talk and public program on polar post. National Postal Museum. January 2008.
- Provided background research to *The New York Times* for a piece on the history of mail collection boxes. November 2007.
- Provided background research to *National Geographic* for a piece on the history of post cards. October 2007.
- Out of the Mails* Family Day. Curator talk and public program linked to *Out of the Mails* exhibit. National Postal Museum. September 2007.
- Provided object interpretation to *Inside Smithsonian Research* on the acquisition of a set of postal keys from the *Titanic*. August 2007.
- Fact checked answer for quiz show *Jeopardy* on mail delivery to the Supreme Court. July 2007.
- Interviewed on camera by the BBC for a piece on artifacts from the RMS *Titanic* in conjunction with the *Disaster!* exhibit. June 2007.
- Aided Smithsonian on Demand with the filming of a television documentary on postal inspectors. February 2007.
- Interviewed for a live broadcast of *Stamp Talk*, an online philatelic radio program, on the Blount Symposium. February 2006.
- "Greetings from the Factory Floor." Public lecture at the National Postal Museum on using post card as artifacts, Washington, D.C. June 21, 2006.
- "Greetings from the Factory Floor." A works in progress discussion delivered at the National Museum of American History's weekly colloquium, Washington, D.C. July 20, 2004.
- "Transportation and Consumer Goods." Series of small talks given to middle school students at Summer Academy in conjunction with the Smithsonian Anacostia Museum, Washington, D.C. July 2003.

Grants:

- “Credibility Assessment.” ARLIS/DoD. Total Project funding: \$347,000. June 2023–April 2024.
- “Drone-implemented integration of GIScience, Engineering, Plant Biology, and Community Education for Dam Safety Assessment.” ASPIRE II research grant (internal USC competition). Total project funding \$99,937, of which my specific allotment is \$10,628 for funding a graduate research assistant.
- Walker Institute for International and Area Studies conference travel grant (internal USC competition), \$1,000, Summer 2019.
- Walker Institute for International and Area Studies conference travel grant (internal USC competition), \$1,000, Summer 2015.
- The Ultimate Vacation: Watching Other People Work*, \$1,500. Lemelson Center Travel to Collections Award, December 2010 – May 2011.
- Nanotechnology in Society Network Node: Imaging, Scientific Change and Public Understanding of Emerging Nanotechnologies*. \$1.5 million. NSF Division of Social and Economic Sciences, grant # SES-0531160, 2005–2011. Included \$40,000 in funding for the exhibition *Imaging the Invisible*. Co-Principal Investigator (PI Ann Johnson).
- From Galileo to YouTube: Demonstrating Science to the Public*, \$3,600. Center for Teaching Excellence, Teaching Large Classes with Technology grant (internal USC competition), May – December 2010. Project Director.

The Ultimate Vacation: Watching Other People Work. \$10,500. Arts and Humanities Provost Grant (internal USC competition), 2010 – 2012. Project Director.

Humanities Gaming Institute: Serious Games for Research and Pedagogy. \$232,737. NEH Institutes in Advanced Topics in the Digital Humanities, grant # HT-50025-09, 2009–2011. Senior Personnel (PI Duncan Buell).

Society for the History of Technology Travel Grant. October 2009. Funding to present research at annual conference in Pittsburgh, Pennsylvania.

Systems at Work. \$1 million. Motorola Foundation, 2007. Funding for exhibition at the National Postal Museum, Washington, D.C. Project Director.

Systems at Work. \$100,000. Lockheed Martin Corporation, 2007. Funding for exhibition at the National Postal Museum, Washington, D.C. Project Director.

Systems at Work. \$100,000. Northrop Grumman Corporation, 2007. Funding for exhibition at the National Postal Museum, Washington, D.C. Project Director.

Systems at Work. \$100,000. Siemens USA, 2007. Funding for exhibition at the National Postal Museum, Washington, D.C. Project Director.

Charles Redd Grant for Studies of the Intermountain West. April 2005. Funding for travel and research on western dams.

Society for the History of Technology Travel Grant, October 2004. Funding to present research at annual conference in Amsterdam, Netherlands.

International Congress for the History of Technology /Society for the History of Technology Travel Grant. August 2004. Funding to present research at annual conference in Bochum, Germany.

J. Brien Key Graduate Student Assistance Fund, May 2004. Funding for travel and research on industrial tourism.

Joel Dean Grant for Research in the Social Sciences, June –August 1997. Funding to research museum education at the Virginia Aviation Museum, Richmond, Virginia.

Fellowships:

NEH Postdoctoral Fellowship at the Linda Hall Library. September 2024–June 2025.

Goldman Sachs Senior Fellowship in American History, Smithsonian Institution National Museum of American History, December 2012–May 2013.

“To Think, To Write, To Publish” Next Generation Scholars Fellowship, NSF funded fellowship. October 2012–May 2013.

Brook Hindle Postdoctoral Fellowship in the History of Technology, October 2010–October 2011.

Baird Society Resident Scholar, Smithsonian Institution Libraries, May 2005–September 2005.

Hodson Trust Fellowship in the Humanities, March 2005.

Dean's Teaching Fellowship, September 2004–December 2004.

Smithsonian Graduate Student Fellow, June 2004–August 2004.

Thomas J. Watson Foundation Fellowship, June 1998–June 1999.

Awards:

2025 ASBPE National Azbee Silver Medal in the category of "All Content Regular Column" for my “Past Forward” column. May 27, 2025.

2025 ASBPE National Azbee Gold Medal in the category of "Online Video Series" for my "A Brief History of Color Television." May 27, 2025.

Finalist, Jesse H. Neal Awards. In recognition for excellence in business media in the category of Best Commentary/Blog, nominated for the Past Forward articles: "British Biplanes Had Wireless Phones" (April); "How The Digital Camera Transformed Our Concept of History" (July); "When X-Rays Were All The Rage" (November). Specialized Information Industry and Associations (SIIA). 2021.

Joseph H. Hazen Education Prize. In recognition of outstanding contributions to the teaching of history of science. History of Science Society. 2020.

Two Thumbs Up Award. Nominated by students registered with the Office of Student Disability Services, recognizing faculty who have made a significant difference in a student's experience on campus. University of South Carolina. 2020.

Garnet Apple Award for Teaching Innovation. University of South Carolina. 2016.

American Alliance of Museums, 2016 Star Advocate Award.

American Association for State and Local History (AASLH), National Award of Merit for work on the Woodrow Wilson Family Home. 2015.

IEEE-USA, Award for Distinguished Literary Contributions furthering Public Understanding and Advancement of the Engineering Profession, for work publicizing the Smithsonian's orphaned collections. 2014.

Historic Columbia, Innovative Leadership Award for work on the Woodrow Wilson Family Home, April 2014.

Southeastern Museum Conference (SEMC) Certificate of Commendation in the category of exhibition design (over \$25,000) for the exhibit *Imaging the Invisible*, November 2012.

Southeastern Museum Conference (SEMC) Honorable Mention in the category of publications for the exhibit *Imaging the Invisible*, November 2012.

Breakthrough Rising Star, University of South Carolina, Office of the Vice President of Research, April 2012.

South Carolina Federation of Museums (SCFM) 2012 Award of Merit for the exhibit *Imaging the Invisible*, March 2012.

Rita Lloyd Moroney Senior Award for 2009 for scholarship in postal history, April 2010.

National Council on Public History (NCPH) New Professionals Award, April 2004.

Teaching Experience:

The University of South Carolina, Columbia, SC. August 2008–present.

- *ENCP 103: Introduction to Industrial Design*, course designed specifically for incoming first-generation engineering and computer science students to satisfy the Aesthetic and Interpretive Understanding core requirement by looking at connoisseurship and its relationship to engineering.
- *Grad 720, 721, 722: Graduate Civic Scholars series*, interdisciplinary graduate seminar on community-engaged research and civic scholarship.
- *Hist 108: Science and Technology in World History*, undergraduate introductory survey; meets general education requirements for Global Historical Thinking and Values, Ethics, and Social Responsibility. Taught in large lecture format (360 students), online (asynchronous), compressed course (3-8 weeks), and Honors College course.
- *Hist 112: US History since 1865*, Honors College section for undergraduate survey.

- *Hist 214: Practice of Public History*, undergraduate introduction to public history; meets general education requirement for Global Historical Thinking. Taught in person, online (semi-asynchronous), and compressed course (8 weeks).
- *Hist 399: Independent Study*, supervised curatorial practicum on exhibition development.
- *Hist 407: US History since 1945*, upper-level undergraduate survey course.
- *Hist 484: Careers in Public History*, upper division course focusing on opportunities for jobs in the history profession outside of teaching.
- *Hist 478: Material Culture in the Digital Age*, fully online, asynchronous course, examining the ramifications of decades of museum digitization efforts.
- *Hist 480: Public History Internship*, summer course overseeing interns at local museums with weekly career development meetings.
- *Hist 492: Visiting History*, Maymester course, behind the scenes at local museums.
- *Hist 492K: Museums and Monuments*, undergraduate introduction to public history.
- *Hist 498H: Time Off: A History of Vacationing in America*, undergraduate senior seminar for majors.
- *Hist 700.001: Oral History*, graduate seminar and practicum on oral history.
- *Hist 700.003: History of Ideas*, graduate seminar with history of science focus.
- *Hist 700R: Eat. Shop. Work. Play*, graduate research seminar and curatorial practicum.
- *Hist 781: History and Theory of Museums*, graduate seminar.
- *Hist 786: Comparative Applied History, US and UK*, residential England field school.
- *Hist 787: Material Culture Studies*, foundational graduate seminar for MA in public history.
- *Hist 789: Historic Site Interpretation*, course oriented around the International Sites of Conscience.
- *SCHC 322G: Practice of Public History*, Honors College proseminar.
- *SCHC 383: Introduction to STS*, Honors College service learning course that split time between classroom discussion of readings in STS with hands on component at local elementary school.
- *SCHC 425: Museums and Advocacy*, Honors College proseminar organized around the International Coalition of Museums of Conscience with a field trip to Washington, DC, to participate in Museum Advocacy Day.

Johns Hopkins University, Baltimore, MD. Instructor, Summer and Fall 2004.

- *Inspiring Wonder: The Technology of Museums*, museum studies seminar focusing on exhibit design.
- *Disaster! Learning from Engineering Catastrophes*, introductory history of technology survey course.

Supervision:

Doctoral Dissertations:

2024

- Nina Schreiner. Outside reader (Anthropology). (in process)
- Angelo Ferraro. "Collaborative Predator Modeling: An Architectural Ontology for Resilient Systems." Outside reader (Electrical Engineering).

2022

- Paige Weaver. "Dynamic Diplomacy and Consumer Culture: Blurring the Lines Between Domestic and Foreign Entanglements During the Reconstruction Era." Co-Director (with Mark Smith).

2018

- Sadegh Foghani, "Ayatollahs and Embryos: Science, Politics, and Religion in Post-Revolutionary Iran." Committee member.
- Michael Glawson, "Philosophy of Cleanliness: Phenomenology and Ethics." Outside reader (Philosophy).
- Kate McFadden, "Garagecraft: Tinkering in the American Garage." Committee member

- Alexandria Russell, "Sites Seen and Unseen: Mapping African American Women's Public Memorialization." Committee member.

2017

- James Risk, "Lamps, Maps, Mud Machines, and Signal Flags: Science, Technology and Commerce in the Early United States." Advisor.
- Jennifer Taylor, "Rebirth of the House Museum: The Woodrow Wilson Family Home and Commemorating Reconstruction." Advisor.

2015

- E. Allen Driggers, "Boundary Stones: Morbid Concretions and the Chemistry of Early Nineteenth Century Medicine." Committee Member.

2014

- Sarah Scripps, "Tabletop Science: Training America's Youth through Popular Science Learning, 1915-1960." Advisor.

Master's Theses:

2025

- Brent Kyle Meyers. *Sea Change: Nathaniel Bowditch and the Enduring Impact of The New American Practical Navigator*. Second Reader
- Lelia Rice. *Joseph Bayman Stoneware Vessels*. Advisor.

2021

- Caitlin Cutrona. " 'We are Going to be Reckoned With:' The South Carolina UDC and the South Carolina Confederate Relic Room and Museum, 1986-2000." Second reader.
- Holly Floyd. "Engraved in Prejudice: How Currency Displayed the Mindset of the South." Second reader.

2020

- Emily Martin. " 'They Invaded the Confederate Memorial Mansion:' Telling Civil Rights History at the Last Capitol of the Confederacy." Second reader.
- Susan Olsen. Outside reader. (MFA in Creative Writing, English)
- Paige Weaver. "Resurrecting a Nation through Silk and Diplomacy: American Material Culture and Foreign Relations during the Reconstruction Era." Advisor.

2019

- Chelsea Grayburn. "Useful Beauty: Tiffany Favre, Carnival Glass, and Consumerism at the Turn of the Twentieth Century." Advisor
- Patrice Green. "For the Common Man: An Analysis of the United States Space and Rocket Center." Advisor.

2018

- Elizabeth Koele. " 'Remember Them Not for How They Died:' American Memory and the *Challenger* Accident." Advisor.

2017

- Catherine Davenport. "Skin Whiteners: A Material Culture Analysis." Advisor.
- Justin Davis. "Funding South Carolina's Monuments: The Growth of the Corporate Person in Monument Funding." Second Reader.

2016

- Allison Baker. "A Call to Every Citizen: The South Carolina Council of Defense and World War I." Advisor.
- Kyle Bjornson. "A Matter of 'Vicious Habits': Civil War Families under the Strain of War." Second Reader.

- Alyssa Constad. “‘Antagonistic’ Describes the Scene:’ Local News Portrayals of the New Left and the Escalation of Protest at the University of South Carolina, 1970.” Advisor.
- Chris Fite. “Deserts will Bloom: Atomic Agriculture and the Promise of Radioactive Redemption.” Second Reader
- Sarah Lerch. “Changing the Conversation: Diversity at Living History Museums.” Advisor.
- Gary Sellick. “Rediscovering Camden: The Preservation of a Revolutionary War Battlefield.” Advisor.

2015

- Katherine Crosby. “Forgotten Science of Bird Eggs: The Life Cycle of Oology at the Smithsonian Institution.” Advisor.
- Kristie DaFoe. “Shifting Authority at the Confederate Relic Room, 1960-1986.” Second Reader.
- Britney Ghee. “Foundations of Memory: Effects of Organizations on the Preservation and Interpretation of the Slave Forts and Castles of Ghana.” Advisor.

2013

- Caitlin Mans. “‘Heritage to Horizons:’ The History of the 1977 International Women’s Year Conference in South Carolina.” Second Reader.
- Kary Pardy. “Deaccession at the Higgins Armory.” Advisor.

2012

- Alan Clamp. “Attempts to Adopt the Metric System in the United States to 1908.” Second Reader.
- Katharine Klein. “The Sacrifices of the American Textile Industry and the Common Good.” Advisor.
- Caitlin Podas. “Edwin A. Harleston, the Charleston Museum, and the Charleston Renaissance: The Politics of Portraiture.” Advisor.

2011

- Sarah Scripps. “Bearing Witness to Normandy: Veteran Testimony, Public Commemoration, and the Creation of the National D-Day Museum.” Advisor.
- Sarah Swinney. “Recovering from Modesty: A Response to the Alteration of an Old Master at Bob Jones University Museum & Gallery.” Advisor.
- Claire White. “‘Absurd Interpretations of Scripture:’ James Woodrow and Conservatism in the Presbyterian Church.” Advisor.

2010

- Amanda Bowman. “Hampton Plantation: Interpreting Slavery in South Carolina.” Advisor.
- Ruth Chan. “Kate Brew Vaughn: Marketing Domestic Expertise.” Advisor.
- Amanda Roddy. “Interpreting Disaster: New Orleans Museums Respond to Katrina.” Advisor.

2009

- Halie Brazier, “‘The Most Elegant and General Assortment of Plate:’ The Market for Imported and Locally-Made Sterling Silver, Consumer Activism, and National Identity in Charleston, 1760-1890.” Second Reader.

Undergraduate Senior Theses / Projects:

2024

- Ava Gartman. “Dressing the Future He Creates: Women’s Fashion in the Space Age.”

Second Reader.

- Olivia Hipp. “Interpreting Gorges State Park.” Honors College Thesis, Second Reader.

2020

- Pranathi Meda. “Museums as Places of Learning.” Honors College Thesis, Advisor.

2019

- John B. Butler, IV. “From Melancholy to Depression: A Study of Major Depressive Disorder in America from 1917 to 1980.” Honors College Thesis, Second Reader.

2017

- EmmaLing Campbell. “The Importance of a Medical Humanities Education.” Honors College Thesis, Second Reader.
- Ianara Natividad. “Intelligence Testing in American Society and its Reflection in Dungeons & Dragons as Quantification of the Individual.” Honors College Thesis, Second Reader.

2014

- Charles Brown, Joseph Fagerburg, Patrick McIntyre, and David Bare. “Visualizing Wilson.” Computer Science Capstone Project, External Advisor.
- Erik Thomas. “Extinct Styles of Beer: A Guide for Home Brewers.” Honors College Thesis, Second Reader.

2013

- Tyler French. “Local Food Ways.” Honors College Thesis, Advisor.

Graduate Research Assistants

- Allison Baker, 2011 fall semester. Developed web site for the exhibit *The Ultimate Vacation*, funded through Arts and Humanities Provost Grant.
- Sarah Scripps, 2010-11 academic year. Research for *Imaging the Invisible* exhibit, funded through NSF Grant #SES--0531160.
- Katharine Walker, 2010-11 academic year. Research for Citizen’s School on the history of science, medicine, and technology during the Civil War. (co-supervised with Ann Johnson)

Undergraduate Research Assistants

- Kate Kuisel, 2021. Conducted oral histories as part of the Women in Microwaves project.
- Tyler French, Magellan Scholar, 2012. Developed a pop-up installation on the local food gap in Columbia, SC in conjunction with his Senior Honors thesis.
- Megan Coker, Magellan Scholar, 2011. Developed gallery guides for *Imaging the Invisible* exhibit.
- Linda Fung, 2011. Designed wall panels for *Imaging the Invisible* exhibit, funded through NSF Grant #SES--0531160.

Internships

Project Supervisor

- Kristy Wong, University of South Carolina, 2012. Designed exhibition catalog for *The Ultimate Vacation*.
- Linda Fung, University of South Carolina, 2011. Designed gallery guide and handouts for *Imaging the Invisible* exhibit.
- Simon McCurley, National Postal Museum, 2008. Conducted research for the exhibit *Systems at Work*.

- Malgorzata Rymsza-Pawlowska, National Postal Museum, 2007. Researched exhibit concept designs for *Community and the Post*.
- Jennifer Goldman, National Postal Museum, 2006. Conducted research for the exhibit *Out of the Mails*.
- Sarah Stella, National Postal Museum, 2006. Developed web site for the exhibit *Out of the Mails*.
- Alyson Turley, National Postal Museum, 2006. Developed web site for the exhibit *Out of the Mails*.

Administrative Supervisor

- Olivia Brown, Nantucket Historical Association, Massachusetts, 2017
- Moira Church, Columbia Museum of Art, South Carolina, 2017
- Katy Kaslow, National Park Service, Fort Ticonderoga, New York, 2017
- Patrice Green, Smithsonian National Museum of African American History and Culture, Washington, DC, 2017
- Emmaline Smith, Smithsonian National Air and Space Museum, Washington, DC, 2017
- Catherine Davenport, South Carolina State Museum, South Carolina, 2016
- Justin Davis, Harper's Ferry National Park, West Virginia, 2016
- John Lustrea, Harper's Ferry National Park, West Virginia, 2016
- Joshua Whitfield, Chaplains Museum, Columbia, South Carolina, 2016
- Sarah Lerch, Old Sturbridge Village, Sturbridge, Massachusetts, 2015.
- Connie Mandeville, Historic Columbia Foundation, South Carolina, 2015.
- Cane West, National Park Service, Washington, DC, 2015.
- Clara Bertagnoli, Connecticut Historical Society, Connecticut, 2014.
- Kyle Bjornson, National Park Service, Washington, DC, 2014.
- Alyssa Constad, South Carolina State Museum, South Carolina, 2014.
- Kristie DaFoe, Historic Columbia, South Carolina, 2014.
- Chris Fite, National Museum of American History, Washington, DC, 2014.
- Britney Ghee, National Museum, Ghana, 2014.
- Gary Selleck, Pinkney Papers, South Carolina, 2014.
- Andrew Abeyounis, Jamestown Foundation, Virginia, 2013.
- Tara Babb, Redcliff Plantation, South Carolina, 2013.
- Katie Crosby, McKissick Museum, South Carolina, 2013.
- Kathy Keenan, South Caroliniana Library, South Carolina, 2013.
- Caitlin Mans, South Carolina State Museum, South Carolina, 2013.
- Brittany Merchant, Historic Columbia Foundation, South Carolina, 2013.
- Lauren Mojkowski, Newport Historical Society, Rhode Island, 2013.
- Shane Lesko, Yad Vashem, Israel, 2012.
- Katherine McFadden, H.L. Hunley Project, South Carolina, 2012.
- Amanda Noll, Local Projects, New York, 2012.
- Kary Pardy, Higgins Armory Museum, Massachusetts, 2012.
- James Risk, Irvin Department of Rare Books and Special Collections, Ernest F. Hollings Special Collections Library, USC, South Carolina, 2012.
- Jennifer Taylor, Moving Image Research Collections, USC Libraries, South Carolina, 2012.
- Caroline Vereen, South Carolina State Museum, South Carolina, 2012.
- Allison Baker, Department of Archives and History, South Carolina, 2011.
- Sarah Conlon, The Heritage Society at Sam Houston Park, Texas, 2011.
- Katharine Klein, Smithsonian National Museum of American History, Washington, D.C., 2011.

- Caitlin Podas, Los Angeles County Museum of Art, California, 2011.
- Valerie Stokholm, South Carolina Military Museum, South Carolina, 2011.
- Rebecca Bush, Riley County Historical Museum, Kansas, 2010.
- Sarah Swinney, Bowes Museum, England, 2010.
- Claire White, Nantucket Historical Association, Massachusetts, 2010.
- Ruth Chan, Sumter County Museum, South Carolina, 2009.
- Amanda Roddy, West Baton Rouge Museum, Louisiana, 2009.
- Lauren Safranek, Smithsonian National Museum of American History, Washington, D.C. 2009.
- Sarah Scripps, Culture and Heritage Museums of York County, South Carolina, 2009.

Externships, Supervisor

- Brytin Boyd, 2013.
- Summer Sloane-Britt, 2013.
- Morgan Williams, 2013.
- Eduardo Patricio Montenegro, 2011.
- Shunichiro Oka, 2011.

Professional Service:

Editorial Boards

- *IEEE Journal of Microwaves*, 2021-present.
- *The Inclusive Historian's Handbook*, 2016-present.
- *Spectrum*, 2016-2021.
- *Technology & Culture*, Public History Editor, 2021-22.

Manuscript Reviewer: University of Michigan Press, IEEE Publications.

Journal Reviewer: *Engineering Studies*, *IEEE Journal of Microwaves*, *Journal of Hospitality & Tourism Research*, *Proceedings of the IEEE*, *The Public Historian*, *Technology and Culture*.

Tenure Reviewer:

- Colorado State University (public history, environmental history)
- Georgia Southern University (exhibit reviewer for someone using public history as evidence of research)
- Smithsonian Institution (National Museum of American History Professional Accomplishments Evaluation Committee)

American Association of Museums (AAM)

- Participated in Museum Advocacy Day, 2011-2025.

Historic Columbia Foundation (HCF)

- Mann-Simons Reinterpretation Committee, Member, 2014-2015.
- Woodrow Wilson Scholarship Committee, Member, 2010-2014.

History of Science Society (HSS)

- Committee on Engagement and Education (CoEE). Committee Member, 2020-2023.

Institute for Electrical and Electronics Engineers (IEEE)

- Standard for Ethical considerations in Emulated Empathy in Autonomous and Intelligent Systems Working Group, Member. 2019-21.
- IEEE Foundation, Grants Committee member, 2018-2020.
- History Committee
 - Chair, 2016-2017.

- Vice-Chair, 2013-2015
- Fellowship and Awards, subcommittee, 2013-2015, 2018-2019.
- IEEE Foundation, ex officio member, 2016-2017.
- History Center focus group, discussant, 2011.

National Council on Public History (NCPH)

- Program Committee, 2017.
- Curriculum and Training Committee, Chair, 2014-2015; Member, 2010-2013.
- Professional Development Committee, Member, 2010-2013.
- Organized “dine around” discussion on “Public History of Science and Technology” as an extension of SHOT’s TEMSIG working group.
- Long Range Planning Committee, Member, July 2005–April 2007.

National Endowment for the Humanities (NEH)

- Science and Technology, Review Panelist, 2021.
- Preservation & Access, Review Panelist, 2015.

National Science Foundation (NSF)

- Informal Science Education, Review Panelist, full proposals 2012.
- Informal Science Education, Review Panelist, preliminary proposals 2011.

Society of History of Technology (SHOT)

- Leonardo da Vinci Medal, Committee Member, 2024.
- Robinson Committee. Committee Member, 2024.
- Eugene S. Ferguson Prize, Committee Member, 2022-2025.
- Bernard S. Finn IEEE History Prize, Committee Member, 2020-2023.
- Dibner Award, Chair, 2014-2015.
- Mercurian Junior Scholar Award Committee, Member, 2010-2013.
- Technology Museums Special Interest Group (TEMSIG), Chair, 2009 – 2015.
- Organized roundtable discussion "Public History of Science and Technology" for TEMSIG, 2009.
- Organized tour of Curseen-Morris Mail Processing Center for SHOT members, 2007.

University Service:

Campus wide

ASPIRE, Office of the VP of Research, grant reviewer, 2020.

University Libraries, Undergraduate Research Award, committee member, 2019-20, 2023-present.

Provost’s Advisory Committee on Women’s Issues, 2016-2019

Advisory Committee on Professional Development for Graduate Students, 2016.

Graduate Civic Scholars Program, Assistant Director 2016-2017.

Caravel, USC’s Undergraduate Research Journal, Reviewer, 2013, 2019.

56th Central South Carolina Region II Science and Engineering Fair, Judge, Senior Division, March 23, 2012.

“Faculty Forum: iPads in the Classroom.” Roundtable participant for discussion sponsored by USC’s Center for Teaching Excellence. March 20, 2012.

Provost Humanities Grants Program, Reviewer, 2011–2012.

“Voyages into the Technological Frontier: Engaging Students in Larger Classes with Technology.” Roundtable participant for this structured conversation with faculty sponsored by USC’s Center for Teaching Excellence. January 26, 2011.

“Using Blackboard’s Peer Evaluation Tool in Your Classroom.” Session instructor for BEST Institute (Blackboard and Educational Software Technologies) for USC’s Center for Teaching Excellence. January 7, 2011.

“How I Use Blackboard in my Classes.” Roundtable participant in BEST Institute (Blackboard and Educational Software Technologies) for USC’s Center for Teaching Excellence. January 6, 2011.

College

Faculty Peer Mentor (Anthropology). 2023-24.

CAS Distributed Learning (DL) Advisory Board. 2021-2023.

CAS Diversity, Equity, and Inclusion Advisory Group. 2021-23.

Gamecock Teaching Days. 2021.

Academic Planning and Curriculum Group. 2020-22.

McKissick Museum, Search Committee, Curator of Exhibitions, Member 2020.

Hosted 3-hour Omeka workshop for the Center for Digital Humanities. April, 2019.

CAS Interdisciplinary Working Group. Spring 2019.

“Conversations about Teaching,” roundtable participant. Incubator for Innovative Teaching. December 2018.

McKissick Museum, Museum Advisory Council Member 2017-2020.

Information Technology Advisory Committee (ITAC), appointed member, 2010-2013.

McKissick Museum, Search Committee, Curator of Exhibitions, Member, 2010.

Center for Digital Humanities, Advisory Board Member, 2009-2010.

Department

Search Committee, Public History. 2021-22

Executive Committee, 2020-2022.

Tenure & Promotion Committee, 2018-2020, 2022-24.

Search Committee, India/South Asian position, 2013.

History Center, Advisory Committee, Elected Member, 2010-2012.

Graduate Committee, Member, 2009-2011, 2013-2014, 2016-2017, 2021-22.

Website Committee, Member, 2009-2011.

Public History Planning Committee, Member, 2008-2009.

Professional Memberships:

American Alliance of Museums (AAM), 2006–present.

Institute for Electrical and Electronics Engineers (IEEE), 1996–present.

National Council on Public History (NCPH), 2003–present.

Society of History of Technology (SHOT), 2002–present.

Society for the Social Implications of Technology (IEEE affiliate), 1997–present.

Professional Training and Development:

250 by 2026, Wiki Scholars Course. April-May 2025.

CEU: Fraud and Forensic Accounting. July 7, 2022.

CEU: RF Boot Camp. June 20, 2022.

LinkedIn for Professionals. 2019.

Drupal. Open IT Lab. Workshop on using this open source software for creating web sites. September 29, 2012.

Visualizing Data. Edward Tufte. Workshop on visual presentation of complex information. October 15, 2007.

Teachers In-Service Program. IEEE. Workshop on how to incorporate technology training into high school curriculum. September 8, 2007.

Legal Issues in Museum Administration. American Law Institute, American Bar Association. February 2007.

Shaping Outcomes. Institute of Museum and Library Services. Course on outcome-based exhibit planning. February - April, 2007.

Digitization @ SI: Challenges & Opportunities Workshop. November 30, 2006.

Microsoft Project Training. Graduate School USDA. June 28-30, 2006.

Managing Projects. The George Washington University School of Business. June 13-15, 2006.

Other Experience:

Accenture (Andersen Consulting), Milwaukee, WI. Analyst, October 1999–June 2002.

- Implemented complete redesign of e-commerce web site; programmed in Java and HTML integrated with Blue Martini.
- Expanded web site to include Canada; implemented dynamic internationalization of site features such as local currency conversion, product availability and address information.
- Implemented a claims processing system for an insurance company.

Updated: May 2025