

ELIZABETH R. PETRICK

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ACADEMIC EMPLOYMENT

Associate Professor of History, <i>Rice University</i>	2019 – Present
Associate Professor of History, <i>New Jersey Institute of Technology</i>	2019
Assistant Professor of History, <i>New Jersey Institute of Technology</i>	2014 – 2019
Associate Director, Law, Technology & Culture Program	
Lecturer, <i>University of California, San Diego</i>	2013 – 2014
Teaching Assistant, <i>University of California, San Diego</i>	2006 – 2009

EDUCATION

Ph.D. History and Science Studies, <i>University of California, San Diego</i>	2012
Dissertation: <i>Fulfilling the Promise of the Personal Computer: The Development of Accessible Computer Technologies, 1970-1998.</i>	
Advisor: Cathy Gere	
Major field: Twentieth Century History of Science.	
Minor fields: Science Studies and United States History.	
M.A. History, <i>University of California, San Diego</i>	2009
B.S. Computer Science, <i>University of Michigan, Ann Arbor</i>	2003
Minor: British History	

AWARDS AND HONORS

ACM SIGCSE Top Ten Symposium Papers of All Time Award, Top Ranked Paper	2019
NJIT Excellence in Teaching Award for Upper Division Undergraduate Instruction by Tenured/Tenure Track Faculty	2018
Computer History Museum Book Prize	2017
Computer History Museum Travel Award	2017
University of California, San Diego Dissertation Fellowship	2010-2011
University of California, San Diego Regents Fellowship	2005-2006

PUBLICATIONS

Books and Articles

Elizabeth R. Petrick. *Making Computers Accessible: Disability Rights and Digital Technology* (Baltimore, MD: Johns Hopkins University Press, 2015).

Winner of the 2017 Computer History Museum Book Prize

Elizabeth R. Petrick. "Curb Cuts and Computers: Advocating for Design Equality in the 1980s." *Design Issues*. 35, no. 4, Autumn 2019, pages 23-32.

Reprint: L. C. Kaczmarczyk, E. R. Petrick, J. P. East, and G. L. Herman. "THE FIRST OF THE TOP TEN SIGCSE SYMPOSIUM RESEARCH PAPERS OF THE LAST 50 YEARS: Identifying student misconceptions of programming," *ACM Inroads*, 10, no. 2, June 2019, pages 65-69.

Elizabeth R. Petrick. "Imagining the Personal Computer: Conceptualizations of the Homebrew Computer Club 1975-1977." *IEEE Annals of the History of Computing*. 39, no. 4, October-December 2017, pages 27-39.

L. C. Kaczmarczyk, E. R. Petrick, J. P. East, and G. L. Herman. "Identifying student misconceptions of programming." In *Proceedings of the 41st ACM technical symposium on Computer science education (SIGCSE '10)*. ACM, New York, NY, USA, 2010, pages 107-111.
Winner of the Top Ranked Paper of the "Top Ten Symposium Papers of All Time Award" from SIGCSE, 2019

Elizabeth R. Petrick. "Building the Black Box: Cyberneticians and Complex Systems." *Science, Technology & Human Values*. Under revision.

Other Publications

Elizabeth R. Petrick. "Membrane Computer Keyboard and Method." *Annotated Patent History Digital Archive*, Sept. 2017. <https://patenthistory.org/patent/membrane-computer-keyboard-and-method-us5450078/>

Review of *From Mainframes to Smartphones: A History of the International Computer Industry* by Martin Campbell-Kelly and Daniel D. Garcia-Swartz and *Abacus to Smartphone: The Evolution of Mobile and Portable Computers* by Evan Koblentz. *IEEE Annals of the History of Computing*. V. 39, no. 2. Apr-Jun, 2017, pages 10-11.

Alison Lefkovitz and Elizabeth R. Petrick. "The History of Patents at NJIT." *In the Classroom: A Blog about Undergrad Teaching and Learning*, Consortium for Undergraduate Law & Justice Programs, April 24, 2017. <http://www.culjp.com/blog/elizabeth-petrick-and-alison-lefkovitz-the-history-of-patents-at-njit>

DIGITAL HUMANITIES AND PUBLIC HISTORY

Annotated Patent History Digital Archive. New Jersey Institute of Technology. 2015-present
PI for a project on the history of U.S. patents and invention.
Pilot version of the site launched in September 2017: <http://patenthistory.org>

NJIT Distributed Museum. New Jersey Institute of Technology. 2015-2019
Co-lead on a project to build museum displays across the NJIT campus, highlighting the

university's history of science and technology research and education. Funded by the Office of the Provost. Three showcases completed.

Aoinagi Karate Digital History Archive. Aoinagi Ken Shu Kai. 2014-2016
Created an online collection for the organization's historical materials, including essays written by the founder, Sensei Castilonia, and a Japanese-to-English glossary. Presented the project at the 35th Anniversary Minicamp. University of California, San Diego, November 10-13, 2016. http://aoinagikenshukai.com/wp/?page_id=47

INVITED TALKS

Bob Barat and Elizabeth Petrick, "NJIT Distributed Museum," Lunch at ITE, Institute for Teaching Excellence, NJIT, March 5, 2019.

"Encouraging Student Engagement in Gen-Ed Courses," Lunch at ITE, Institute for Teaching Excellence, NJIT, October 16, 2018.

"Demanding Inclusion: People with Disabilities and Computer Technology," History and Sociology of Science Workshop, University of Pennsylvania, November 13, 2017.

"Inclusion, Exclusion, and Computer Technology," German Historical Institute Spring Lecture Series, Washington, DC, April 06, 2017.

Elizabeth R. Petrick and Alison L. Lefkowitz, "Panel: The First 100 Days of the New Administration and Entrepreneurship," 3rd Annual Global Intellectual Property Law Symposium, Gearhart Law, NJIT, April 3, 2017.

"Becoming Users: People with Disabilities and Computer Technology," Center for Science, Technology, Medicine, and Society Colloquium Series, University of California, Berkeley, March 16, 2017.

"Computer Technology as Empowering: From Accessible Devices to Tablet Interfaces," NJIT Faculty Research Showcase. NJIT, February 23, 2015.

"Curb Cuts for Computers: Accessibility and Personal Computer Technology in the 1980s," UC San Diego Science Studies Program Colloquium. University of California, San Diego, February 14, 2011.

CONFERENCE PRESENTATIONS

"Curb Cuts and Computers: Arguing for Accessibility in the 1980s," *Society for the History of Technology Special Interest Group on Computers, Information, and Society*. Philadelphia, PA, October 29, 2017.

Winner of the 2017 Computer History Museum Travel Award for best abstract.

"Replicating Black Boxes with White Boxes: Cyberneticians and Complex Systems," *History of Science Society*. Atlanta, GA, November 3-6, 2016.

Chaired the roundtable session on "Outlining the Black Box in the History of Science."

"Spanning Space and Time Barriers: Computerized Conferencing and Disability," *Making*

Modern Disabilities: Histories of Disability, Design, and Technology, A Conference at the Hagley Museum and Library. Wilmington, DE, Friday, October 28, 2016.

“From the Dynabook to Autism Apps: Tracing the Ideals of Tablet Computing,” *Society for the History of Technology*. Albuquerque, NM, October 8-11, 2015.

“From Text to GUIs: Making Personal Computer Interfaces Accessible,” *Society for the Social Studies of Science*. Cleveland, OH, November 2-5, 2011.

Co-chaired the session on “Assistive Technology and Embodied Use.”

“Jackie Brand and Disability Activism, within the Computer Industry and without,” *Society for the Social Studies of Science*. Tokyo, Japan, August 25-29, 2010.

“Imagining the Use of Computers: The Writings of Homebrew Computer Club Hobbyists,” *Society for the History of Technology*. Lisbon, Portugal, October 11-14, 2008.

“Hobbyist as User and Developer: Conceptualizations of the Homebrew Computer Club 1975-1977,” *Society for the Social Studies of Science*. Montreal, Canada, October 11-13, 2007.

GRANTS AWARDED

Co-PI, Daniel Asen (PI) Fall 2017-Spring 2018
Rutgers University Institute for Research on Women Collaborative Work Group, \$1800
“The Gender, Race and Disability Politics of Science and Technology”

PI. New Jersey Institute of Technology Faculty Seed Grant, \$7000 Fall 2016-Summer 2017
Annotated Patent History Digital Archive

ADMINISTRATIVE EXPERIENCE

New Jersey Institute of Technology

Associate Director: Law, Technology & Culture Program 2014 – 2019

Patent Law track advisor.

Represented the program at recruiting events.

Researched program development grants.

Oversaw law-related student internships.

Developed new law-related undergraduate course: *Law in the Digital World*.

Advised students on their career options and law school applications.

Acting Director: Law, Technology & Culture Program 2016

Operated an undergraduate pre-law major with approximately 25 students.

Oversaw law-related student internships.

Organized trip for pre-law student and representatives from the NJIT Albert Dorman Honors College to Pace Law School.

Organized and participated in an LSAT Prep Workshop.

Faculty advisor for Pre-Law Society student organization.

Developed new law-related undergraduate courses: *Civil Rights and Disability and Invention and Regulation*.

Taught a workshop course on applying to law school: *Professional Development in Law*.

Advised students on their career options and law school applications.

ACADEMIC SERVICE

New Jersey Institute of Technology:

University Service:

Member: Teaching, Learning & Technology University Committee	2014 – 2019
Member: Digital Humanities Working Group	2017 – 2019
Member: CSLA Faculty Seed Grant Review Committee	2017, 2019
Member: Committee on Graduate Education	2017 – 2018
Search Committee Member: University Librarian	2016 – 2017
Search Committee Member: Albert Dorman Honors College Dean	2016

Federated History Department Service:

Search Committee Member: Academic Coordinator	2018 – 2019
Chair: History Research Paper Award Committee	2017 – 2018
Search Committee Member: Lecturer	2017 – 2018
Search Committee Member: History of Science, Technology, Law	2016 – 2017
Member: Excellence in Teaching Award Committee, Federated History	Spring 2016
Search Committee Member: African History, Rutgers-Newark	Fall 2015
Member: Grade Appeals Committee, Federated History	Spring 2015
Search Committee Member: South Asian History, Rutgers-Newark	Fall 2014

Professional Service:

Editorial Board, <i>IEEE Annals of the History of Computing</i>	2017 – Present
Acting Editor, Reviewer	
Graduate Advisory Editor, <i>Science, Technology, & Human Values</i>	Spring 2008

COURSES TAUGHT

New Jersey Institute of Technology:

- History of Artificial Intelligence
- Introduction to Research Methods
- Computers, Innovators and History
- Civil Rights and Disability
- Law in the Digital World
- Invention and Regulation
- Global History of Technology and Culture (Graduate seminar)
- Technology and Culture in American History
- Professional Development in Law
- The Digital World
- Technology in American History

University of California, San Diego:

- History of the Computer
- History of Modern Medicine
- Technology in the Twentieth Century

GRADUATE STUDENT ADVISING

Master's Thesis Advisor

Thomas Derr, "A Socio-cultural Analysis on the History of Gaming Technology," *Rutgers-Newark*, Federated Department of History. In-progress.

Nathan Todd, "The Collapse of Supersonic Transportation," *Rutgers-Newark*, Federated Department of History. In-progress.

Brian Tobin, "The Development and Implementation of the Access Link Program at New Jersey Transit: New Jersey's Response to Providing Complementary Paratransit Access Under the ADA," *Rutgers-Newark*, Federated Department of History. October, 2016.

PROFESSIONAL MEMBERSHIPS

Society for the History of Technology (2008 - Present)

History of Science Society (2007 - Present)