

ELIZABETH R. PETRICK

Department of History
Rice University
324 Humanities Building
713-348-2546
elizabeth.petrick@rice.edu

ACADEMIC EMPLOYMENT

Rice University

Associate Professor of History 2019 – Present

New Jersey Institute of Technology

Associate Professor of History 2019

Assistant Professor of History 2014 – 2019

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

University of California, San Diego

Lecturer 2013 – 2014

Teaching Assistant 2006 – 2009

EDUCATION

Ph.D. History and Science Studies, *University of California, San Diego* 2012

Dissertation: *Fulfilling the Promise of the Personal Computer: The Development of Accessible Computer Technologies, 1970-1998.*

Advisor: Cathy Gere

Major field: Twentieth Century History of Science.

Minor fields: Science Studies and United States History.

M.A. History, *University of California, San Diego* 2009

B.S. Computer Science, *University of Michigan, Ann Arbor* 2003

Minor: British History

AWARDS AND HONORS

One Week Research Fellow, Centre for Digital Cultures at Leuphana University 2022

ACM SIGCSE Top Ten Symposium Papers of All Time Award, Top Ranked Paper 2019

NJIT Excellence in Teaching Award for Upper Division Undergraduate Instruction 2018

by Tenured/Tenure Track Faculty

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:

E. 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

Refereed Articles and Chapters:

E. Petrick, "The Computer as Prosthesis? Embodiment, Augmentation, and Disability," in Janet Abbate and Stephanie Dick, eds, *Abstractions and Embodiments: New Histories of Computing and Society* (Baltimore, MD: Johns Hopkins University Press, 2022): 399-415.

E. Petrick, "A Historiography of Human-Computer Interaction," *IEEE Annals of the History of Computing*, Special Issue on "Interface Architects: The Evolution of Human-Computer Interaction," 42, no. 4 (October-December, 2020): 8-23.

E. Petrick, "Building the Black Box: Cyberneticians and Complex Systems," *Science, Technology, & Human Values*, Special Issue on "Unpacking the Black Box," 45, no. 4 (July 1, 2020): 575-595.

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

E. 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): 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): 107-111.

Winner of the Top Ranked Paper of the "Top Ten Symposium Papers of All Time Award" from SIGCSE, 2019

Reprinted: 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): 65-69.

Other Publications

E. Petrick, "Report on SIGCIS 2021: Online Edition," *IEEE Annals of the History of Computing* 43, no. 4 (Oct-Dec, 2021): 105-107.

E. 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* 39, no. 2 (Apr-Jun, 2017): 10-11.

Alison Lefkowitz 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

"The Annotated Patent History Digital Archive," Centre for Digital Cultures at Leuphana University Lüneberg, Germany, June 14, 2022.

"The Internet as Public Accommodation: Web Accessibility and US Law," Lex Machina, Online, April 21, 2022.

"Disability, Embodiment, and Online Socialization: Computerized Conferencing Technology in the 1970s," Centre for Digital Cultures at Leuphana University Lüneberg, Online, December 7, 2021.

Lan Li and Elizabeth Petrick, "STS, History and Writing about the Other 'Sciences,'" History Department Brown Bag, Rice University, September 20, 2021.

"Dynabook and Smalltalk: Interfaces of People and Computers in the 1970s," History Department Brown Bag, Rice University, September 23, 2019.

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

"The Intellectual History of a Machine: The Ideas Behind Tablet Computers," *Society for the History of Technology*. New Orleans, LA, November 11, 2022.

Chair: "The Intellectual History of Technology" and "New Histories of American Personal Computing."

Roundtable: "Can we integrate issues of gender, justice and embodiment into the story of the computer itself or must these narratives remain separate and particular?," *Rethinking and Rebuilding: Grand Narratives in the History of Computing*, Online, July 5, 2022.

"The Genealogy of the Dynabook: A Vision of Personal Computing," *Society for Cinema and Media Studies*. Online, April 1, 2022.

"Replacing Visions: The Notetaker Prototype and the Loss of Education," *History of Science Society / Society for the History of Technology*. Online, November 20, 2021.

Chair: "Vioneering Past and Future in Science Museums and Educational Technologies" and "Explaining Everything: Models, Machines, and Black Boxes in Histories of Science and Technology."

"Spanning Space and Time Barriers: Computerized Conferencing, Disability, and Citizenship," *Just Code Symposium*. Charles Babbage Institute, Online, October 24, 2020.

Roundtable: "Information and the Material World," *Science & Technology in the Long 20th Century*. Purdue University, November 16, 2019.

"Adele Goldberg, Smalltalk, and Children's Education with Computers," *Society for the History of Technology Special Interest Group on Computers, Information, and Society*. Milan, Italy, October 27, 2019.

Chair and Commentator: SHOT session on "Workplace Technologies and the Organization of Labor."

"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.

Chair: 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.

NSF FW-HTF-RM: #1928627, \$849,000 2020 - 2022
“Augmenting Social Media Content Moderation”

Co-PI.

Rutgers University Institute for Research on Women Collaborative Work Group, \$1800 2017 - 2018
“The Gender, Race and Disability Politics of Science and Technology”

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

ADMINISTRATIVE EXPERIENCE

Rice University

Co-Director: Science and Technology Studies Program 2022 – Present

New Jersey Institute of Technology

Associate Director: Law, Technology & Culture Program 2014 – 2019
Patent Law track advisor.

Acting Director: Law, Technology & Culture Program 2016
Operated an undergraduate pre-law major with approximately 25 students.

ACADEMIC SERVICE

Rice University

University Service:

Deputy Speaker: Faculty Senate	2021 – Present
Chair: Senate Nominations and Elections Committee	2022 – Present
Senator: Faculty Senate, School of the Humanities Representative	2020 – Present
Member: OIT Academic Technology Committee	2020 – Present
Member: Advisory Board, Technology, Culture and Society Initiative	2019 – Present
Member: Examinations and Standing Committee	2020 – 2021
Member: COVID-19 Research Fund Oversight and Review Committee	2020

History Department Service:

Member: Graduate Committee	2022 – Present
Member: Undergraduate Committee	2020 – 2022
Chair: Baker College Chair Search Committee	2020 – 2021

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
Member: University Librarian Search Committee	2016 – 2017
Member: Albert Dorman Honors College Dean Search Committee	2016

Federated History Department Service:

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

Professional Service:

Editorial Board, <i>IEEE Annals of the History of Computing</i>	2017 – Present
Associate Editor in Chief	2022 – Present
Acting Editor, Reviewer	
SIGCIS Vice-Chair for Communications	2020 – Present
SIGCIS Mahoney Prize Committee	2020 – Present
Chair	2021
Advisory Group, Liquid Crystal Oral History Project, Kent State	2021 – Present
<i>IEEE Annals of the History of Computing</i> Best Paper Committee	2020
Graduate Advisory Editor, <i>Science, Technology, & Human Values</i>	Spring 2008

Manuscript Reviewer: Oxford University Press, Harvard University Press, SSRC
Article Reviewer: *IEEE Annals of the History of Computing, Information & Culture, Theory & Psychology*

COURSES TAUGHT

Rice University

Data, Ethics, and Society
What Is an (Ab)Normal Body?
History of Video Games
History of Artificial Intelligence
Disability and U.S. Law
Computers and Society
Law in the Digital World
Technology and Culture in American History

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. October, 2020.

Nathan Todd, "The Collapse of Supersonic Transportation," *Rutgers-Newark*, Federated Department of History. May, 2019.

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.

UNDERGRADUATE STUDENT ADVISING

Honors Thesis Advisor

Anna Margaret Clyburn, "Revenge Pornography: Historicizing the Junction of U.S. First Amendment Law, Technological Development, Government Inaction, and Sexual Exploitation, 1917-2020," *Rice University*, History Department. April, 2021.

Blake Erhardt-Ohren, "Waiting for a Seat at the Table: Haiti's Hard Past and Difficult Future," *University of California, San Diego*, Eleanor Roosevelt College. June, 2014.

PROFESSIONAL MEMBERSHIPS

Society for the History of Technology (2008 - Present)

History of Science Society (2007 - Present)

Society for Cinema and Media Studies (2021-2022)