

## Cathryn Carson

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### POSITIONS

#### University of California, Berkeley

Chair, Department of History	2021-
Thomas M. Siebel Presidential Chair in the History of Science	2016-21
Assistant, Associate, and Full Professor, Department of History	1996-
Associate Dean for Strategy and Planning, Division of Computing, Data Science, and Society	2019-20
Faculty Lead, Data Science Education Program	2016-20
Chair, Faculty Advisory Board, Data Science Planning Initiative	2015-16
Co-Chair, Data Sciences Education Rapid Action Team	2014
Operational Lead and Interim Director, Social Sciences Data Laboratory (D-Lab)	2012-14
Associate Dean, Division of Social Sciences	2010-14
Director, Office for History of Science and Technology	2000-10
Co-Director, Science, Technology, and Society Center	2005-07
Affiliated with Energy and Resources Group (ERG), Center for Science, Technology, Medicine, and Society (CSTMS), Office for History of Science and Technology (OHST), Berkeley Institute for Data Science (BIDS), Human Technology Futures (HTF)	

#### Stanford University

Visiting Assistant Professor, Department of History and Program in the History and Philosophy of Science	1995-96
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### EDUCATION

Harvard University, Ph.D., History of Science	1995
Harvard University, A.M., Physics	1993
University of Chicago, A.B., with Special and General Honors, History, Philosophy, and Social Studies of Science and Medicine (HiPSS) Also completed the requirements for A.B., Physics, and S.B., Mathematics	1990

### FELLOWSHIPS AND AWARDS

#### Faculty Service

Berkeley Collegium Award for Excellence in Undergraduate Education	2017
Carol D. Soc Distinguished Graduate Student Mentoring Award, Graduate Division, UC Berkeley	2014
Distinguished Service Award, Division of Social Sciences, UC Berkeley	2014

#### Faculty Research

Fellow, American Association for the Advancement of Science	2015
Fellow, American Physical Society	2011
Mellon New Directions Fellowship	2003-07
NSF CAREER Award	2001
Alexander von Humboldt Foundation Research Fellowship	1999
Member, School of Social Science, Institute for Advanced Study, Princeton	1998-99
DAAD (German Academic Exchange Service) Postdoctoral Grant	1997

**Graduate and Postdoctoral**

Mellon Postdoctoral Fellowship	1995-96
Mellon Fellowship in the Humanities (awarded 1990)	1994-95
John Clarke Slater Fellowship for the History of the Physical Sciences, American Philosophical Society	1994
Krupp Foundation Fellowship in Modern European History	1993-94
Merit Fellowship, Harvard University	1993-94
National Science Foundation Graduate Fellowship	1990-93

**Undergraduate**

Morris Fishbein Prize (best essay on history, philosophy, or social studies of science)	1990
Graduation as a Student Marshal (highest honors)	1990
Phi Beta Kappa, junior year	1989
U.S. Physics Olympiad Team (high school senior)	1986

**BOOKS AND EDITED COLLECTIONS**

Ahn, Joonhong, Cathryn Carson, Mikael Jensen, Kohta Juraku, Shinya Nagasaki, and Satoru Tanaka, eds. *Reflections on the Fukushima Daiichi nuclear accident: Toward social-scientific literacy and engineering resilience*. Heidelberg: Springer, 2014.

Carson, Cathryn, Alexei Kojevnikov, and Helmuth Trischler, eds. *Weimar Culture and Quantum Mechanics: Selected Papers by Paul Forman and Contemporary Perspectives on the Forman Thesis*. London: Imperial College Press, 2011.

Carson, Cathryn. *Heisenberg in the atomic age: Science and the public sphere*. Cambridge: Cambridge University Press, 2010. Paperback edition 2014.

Carson, Cathryn, and David A. Hollinger, eds. *Reappraising Oppenheimer: Centennial studies and reflections*. Berkeley Papers in History of Science, vol. 21. Berkeley: Office for History of Science and Technology, University of California, Berkeley, 2005.

Carson, Cathryn, Ethan Pollock, Peter Westwick, and James H. Williams, guest eds. "Physicists in the postwar political arena: Comparative perspectives." Special issue of *Historical studies in the physical and biological sciences* 30:1 (1999).

**RESEARCH ARTICLES AND BOOK CHAPTERS**

Carson, Cathryn. "Clouds of data." *Historical studies in the natural sciences* 50, no. 1-2 (2020): 81-89.

Carson, Cathryn. "Knowledge economies: Toward a new technological age." *Cambridge history of World War II*, vol. III, *Total war: Economy, society, and culture*, 196-219, 761-763. Cambridge: Cambridge University Press, 2015.

Carson, Cathryn. "Engineers, social scientists, and nuclear power: A narrative from within." In *Reflections on the Fukushima Daiichi nuclear accident: Toward social-scientific literacy and engineering resilience*, ed. Joonhong Ahn, Cathryn Carson, Mikael Jensen, Kohta Juraku, Shinya Nagasaki, and Satoru Tanaka, 387-402. Heidelberg: Springer, 2014. <http://dx.doi.org/10.1007/978-3-319-12090-4>

Kohta Juraku, Cathryn Carson, Shinya Nagasaki, Mikael Jensen, Joonhong Ahn, and Satoru Tanaka. "Integrating social-scientific literacy in nuclear engineering education." In *Reflections on the Fukushima Daiichi nuclear accident: Toward social-scientific literacy and engineering resilience*, ed. Joonhong Ahn, Cathryn Carson, Mikael Jensen, Kohta Juraku, Shinya Nagasaki, and Satoru Tanaka, 1-17. Heidelberg: Springer, 2014. <http://dx.doi.org/10.1007/978-3-319-12090-4>

- Sunderland, Mary E., Behnam Taebi, Cathryn Carson, and William Kastenber. "Teaching global perspectives: engineering ethics across international and academic borders." *Journal of responsible innovation* 2014, <http://dx.doi.org/10.1080/23299460.2014.922337>.
- Carson, Cathryn. "Method, moment, and crisis in Weimar science." In *Weimar thought: A contested legacy*, ed. Peter E. Gordon and John P. McCormick, 179-199. Princeton: Princeton University Press, 2013.
- Carson, Cathryn. "Modern or antimodern science? Weimar culture, natural science, and the Heidegger-Heisenberg exchange." In *Weimar culture and quantum mechanics: Selected papers by Paul Forman and contemporary perspectives on the Forman thesis*, ed. Cathryn Carson, Alexei Kojevnikov, and Helmuth Trischler, 523-542. London: Imperial College Press, 2011.
- Carson, Cathryn. "Beyond reconstruction: CERN's second generation accelerator program as an indicator of shifts in West German science." In *Physics and Politics: Research and Research Support in Twentieth Century Germany in International Perspective*, ed. Helmuth Trischler and Mark Walker, 107-130. *Beiträge zur Geschichte der Deutschen Forschungsgemeinschaft*, v. 5. Stuttgart: Steiner, 2010.
- Carson, Cathryn. "Science as instrumental reason: Heidegger, Habermas, Heisenberg." *Continental Philosophy Review* 42 (2010): 483-509.
- Carson, Cathryn. "Science policy as *Ordnungspolitik*: Heisenberg as social and political theorist in the scientific-technical age." In *Who is making science? Scientists as makers of technical-scientific structures and administrators of science policy*, ed. Albert Presas i Puig, MPI Preprint 361, 35-44. Berlin: Max Planck Institute for the History of Science, 2008.
- Carson, Cathryn. "NS-Wissenschaft / Unmenschliche Wissenschaft?" In *Sachunterricht: Fundstücke aus der Wissenschaftsgeschichte*, ed. Thomas Brandstetter, Dirk Rupnow, and Christina Wessely, 209-213. Wien: Löcker, 2008.
- Carson, Cathryn. "The revolution in science." In *A companion to Europe, 1900-1945*, ed. Gordon Martel, 19-34. Oxford: Blackwell, 2006.
- Carson, Cathryn. "Heisenberg als Wissenschaftsorganisator." In *Werner Heisenberg 1901-1976: Beiträge, Berichte, Briefe — Festschrift zu seinem 100. Geburtstag*, ed. Christian Kleint, Helmut Rechenberg, and Gerald Wiemers, 214-222. Stuttgart: S. Hirzel, 2005.
- Carson, Cathryn. "Reflections on Copenhagen." In *Michael Frayn's Copenhagen in debate: Historical essays and documents on the 1941 meeting between Niels Bohr and Werner Heisenberg*, ed. Matthias Dörries, 7-17. Berkeley: Office for History of Science and Technology, 2005. Published in German as "Reflexionen zu 'Kopenhagen.'" In Michael Frayn, *Kopenhagen: Mit zehn wissenschaftsgeschichtlichen Kommentaren*, ed. Matthias Dörries, 3rd, rev. ed., 172-188. Göttingen: Wallstein, 2003. In initial form in 1st ed., 149-162. Göttingen: Wallstein, 2001.
- Soo, Mary, and Cathryn Carson. "Managing the research university: Clark Kerr and the University of California." *Minerva* 42 (2004): 215-236.
- Carson, Cathryn. "Objectivity and the scientist: Heisenberg rethinks." *Science in context* 16 (2003): 243-269.
- Carson, Cathryn. "Bildung als Konsumgut: Physik in der westdeutschen Nachkriegskultur." In *Physik im Nachkriegsdeutschland*, ed. Dieter Hoffmann, 73-85. Frankfurt: Harri Deutsch, 2003.
- Carson, Cathryn. "Nuclear energy development in postwar West Germany: Struggles over cooperation in the Federal Republic's first reactor station." *History and technology* 18 (2002): 233-270.
- Carson, Cathryn, and Michael Gubser. "Science advising and science policy in postwar West Germany: The example of

the Deutscher Forschungsrat." *Minerva* 40 (2002): 147-179.

Carson, Cathryn. "Heisenberg and the framework of science policy." *Fortschritte der Physik* 50 (2002): 432-436.

Carson, Cathryn. "Old programs, new politics? Nuclear reactor studies after 1945 in the Max-Planck-Institut für Physik." In *Geschichte der Kaiser-Wilhelm-Gesellschaft im Nationalsozialismus: Bestandaufnahme und Perspektiven der Forschung*, ed. Doris Kaufmann, 726-749. Göttingen: Wallstein, 2000.

Carson, Cathryn. "New models for science in politics: Heisenberg in West Germany." *Historical studies in the physical and biological sciences* 30:1 (1999): 115-171.

Carson, Cathryn. "The peculiar notion of exchange forces — I: Origins in quantum mechanics, 1926-1928." *Studies in history and philosophy of modern physics* 27 (1996): 23-45. "II: From nuclear forces to QED, 1929-1950." *Studies in history and philosophy of modern physics* 27 (1996): 99-131.

Carson, Cathryn. "Who wants a postmodern physics?" *Science in context* 8 (1995): 635-655.

D.A. Faux, G. Gaynor, C.L. Carson, C.K. Hall, and J. Bernholc. "Computer simulation studies of the growth of strained layers by molecular-beam epitaxy." *Physical review* B42 (1990): 2914-2922.

Carson, C.L., J. Bernholc, D. Faux, and C.K. Hall. "Efficient techniques for computer simulations of heteroepitaxial growth." *Applied physics letters* 56 (1990): 1971-1973.

## OVERVIEWS, INTRODUCTIONS, POPULAR ARTICLES, AND WEB EXHIBITS

Carson, Cathryn. Chapter in *Blazing the Trail: Essays by Leading Women in Science*, ed. Emma Ideal and Rhiannon Meharchand, 59-65. Irvine, CA: CreateSpace, 2013.

Carson, Cathryn. "Comment on Margit Szöllösi-Janze's 'The natural sciences and democratic practices.'" *Bulletin of the German Historical Institute* 44 (Spring 2009): 23-27.

Trischler, Helmuth, Cathryn Carson, and Alexei Kojevnikov. "Beyond Weimar Culture – Die Bedeutung der Forman-These für eine Wissenschaftsgeschichte in kulturhistorischer Perspektive." *Berichte zur Wissenschaftsgeschichte* 31 (2008): 305-310.

Carson, Cathryn. "Pauli, Wolfgang." *New dictionary of scientific biography*, ed. Noretta Koertge, v. 6, 34-36. Detroit: Charles Scribner's Sons, 2007.

Carson, Cathryn. "Writing writing writing: The natural history field journal as literary text." In *Townsend newsletter* (University of California, Berkeley), February 2007, 6-8.

Carson, Cathryn. "At work: Rube Goldberg collection." In *Exploring the Bancroft Library*, ed. Steven Vincent and Charles Faulhaber, 118-119. Salt Lake City, UT: Signature Books, 2006.

Carson, Cathryn. Introduction to *Reappraising Oppenheimer: Centennial Studies and Reflections*, ed. Cathryn Carson and David A. Hollinger, 1-7. Berkeley: Office for History of Science and Technology, University of California, Berkeley, 2005.

Carson, Cathryn. "Energia nucleare." In *Storia della scienza*, vol. viii, *La seconda rivoluzione scientifica*, ed. Sandro Petruccioli, 645-650. Rome: Istituto della Enciclopedia Italiana, 2004.

Wellerstein, Alex, with assistance from Cathryn Carson. "Oppenheimer: A life." Web exhibit for Oppenheimer Centennial at Berkeley, <http://ohst.berkeley.edu/oppenheimer/exhibit/>. Featured in *Science*, winner of *Scientific American* Science and Technology Web Award, 2004.

Carson, Cathryn. "Nuklearpolitik im Zeichen des Kalten Krieges: Deutsche Wissenschaft zwischen Kernenergie und Protestbewegung." *Aurora: Magazin für Kultur, Wissen und Gesellschaft* (online magazine). In Schwerpunkt "Das Jahrhundert des Atoms: Geschichte, Technik, Risiken und Perspektiven," Fall/Winter 2003, [http://www.aurora-magazin.at/gesellschaft/atom\\_carson\\_frm.htm](http://www.aurora-magazin.at/gesellschaft/atom_carson_frm.htm).

Carson, Cathryn. "Der unsichtbare Dritte." *Frankfurter Allgemeine Zeitung*, 22 February 2002, p. 51.

Carson, Cathryn. "The origins of the quantum theory." *Beam line* (Stanford Linear Accelerator Center) 30:2 (2000): 6-19. Online at <http://www.slac.stanford.edu/pubs/beamline/30/2/30-2-carson.pdf>.

Carson, Cathryn. "A scientist in public: Werner Heisenberg after 1945." *Endeavour* 23:1 (1999): 31-34.

## ORGANIZATIONAL BLUEPRINTS

Social Sciences Data Laboratory (D-Lab) Design Report. UC Berkeley, April 2012. Chair of the design team (two deans, two additional faculty members, Data Archivist, Chief Information Officer). Transitioned from design team chair to Operational Lead to launch D-Lab in February 2013. Served as D-Lab's first Interim Director until June 2014. [https://drive.google.com/file/d/1EjTu01jHO\\_hYqN7ZVCApfo0JQHdR7a-q/view?usp=sharing](https://drive.google.com/file/d/1EjTu01jHO_hYqN7ZVCApfo0JQHdR7a-q/view?usp=sharing)

Data Sciences @ Berkeley: The Undergraduate Experience. UC Berkeley, January 2015. Co-chair of the Data Sciences Education Rapid Action Team (eight faculty members from Computer Science, Statistics, application domains, Information, co-chaired with the Dean of Undergraduate Studies). On the three-person executive team that then took the blueprint to campus approval and implementation at scale. <http://data.berkeley.edu/sites/default/files/datasciencecurriculumsketch.pdf>

Data Science Planning Initiative, Faculty Advisory Board Report. UC Berkeley, August 2016. Chair of the Faculty Advisory Board (fifteen faculty across the university, including two deans). Steered broad-based campus engagement and discussion with administration and Faculty Senate, leading to campus leadership decision in December 2016 to create a Division for Data Science with a new dean. <https://drive.google.com/open?id=0B8gpOw0SuKG4cGR1NTZpTzBQRGM>

## SELECTED PRESENTATIONS

"Adapting universities for interdisciplinarity: Crossing between theory and practice." Keynote. Symposium on Interdisciplinarity Revisited, Berlin, October 2019.

"Transcending boundaries, decolonizing science," Respondent to France Cordova (Director, National Science Foundation), Molapo Qhobela (Director, South Africa National Research Foundation), and Peter Strohschneider (President, Deutsche Forschungsgemeinschaft), American Association for the Advancement of Science Annual Meeting, Washington, DC, February 2019.

"Physics and history, data and time." American Physical Society Pais Prize Session in honor of Peter L. Galison, Los Angeles, March 2018.

"Data science / science studies," Society for Social Studies of Science, Barcelona, September 2016.

"Environments for future-facing research: Reflections on complexity science." Conference on "Understanding complexity: Offering solutions to the problems of the 21st century," Vienna, Austria, February 2015.

"Heidegger and physics: A historical take." 48th Heidegger Circle Meeting, St. Petersburg, Florida, May 2014.

"Putting science into history: Kuhn, Heidegger, Husserl." Conference on "*Structure at 50: Assessing and reassessing*

Kuhn and his legacy,” Princeton University, November 2012.

“Waste policy and R&D design – Historical observations.” Blue Ribbon Commission on America’s Nuclear Future, Subcommittee on Reactor and Fuel Cycle Technology, Washington, DC, October 2010.

“Nuclear waste policy.” Conference on “History as a resource for decision making,” Berkeley, March 2010.

“Historical perspective? Participant observation? Talking to nuclear engineers about the history of nuclear waste management.” Office for History of Science and Technology, Berkeley, January 2010.

“Historical perspectives on geologic disposal.” 2009 Advanced Summer School of Radioactive Waste Disposal with Social-Scientific Literacy, Berkeley, August 2009.

“A social science perspective on nuclear waste management,” UC Berkeley – Tokyo GoNERI Social Science Seminar on the Nuclear Fuel Cycle and Waste, Berkeley, November 2008.

“Categorizing waste: Defining risk between practice and politics,” Workshop on “Histoire des risques nucléaires: Savoirs, régulation et politique,” Centre de Sociologie de l’Innovation, Ecole des Mines, Paris, March 2006.

“Going nuclear: Science, politics, and risk in the Federal Republic of Germany in the 1950s,” BMW Center for German and European Studies, Georgetown University, February 2004. Online at [http://www.georgetown.edu/sfs/cges/docs/Docs\\_Working\\_Papers\\_Page/Working\\_Paper\\_Carson\\_8-04.pdf](http://www.georgetown.edu/sfs/cges/docs/Docs_Working_Papers_Page/Working_Paper_Carson_8-04.pdf).

“Placing Frayn’s play in the historical tradition,” Conference on “Copenhagen and beyond: Drama meets history of science,” Niels Bohr Archive, Copenhagen, September 2001. Online at <http://www.nbi.dk/NBA/files/sem/symp/carson.html>.

“Physik und Soziologie: Ein Vergleich,” conference on “Wissenschaften und Wissenschaftspolitik: Interaktionen, Kontinuitäten und Bruchzonen vom späten Kaiserreich bis zur frühen Bundesrepublik/DDR,” Berlin, 20 May 2000.

“Werner Heisenberg and the legacies of the Third Reich: Science and politics in postwar West Germany,” Institute for Nuclear and Particle Astrophysics, Lawrence Berkeley Laboratory, 14 April 2000.

“Rethinking inward bound,” Colloquium in honor of Silvan S. Schweber, Harvard University, 13 March 1998.

**BOOK REVIEWS** in *Science*, *Isis*, *Historical studies in the physical and biological sciences*, *Metascience*, *Journal of modern history*, *Reviews in American history*.

## CURRENT RESEARCH

Institutionalizing interdisciplinarity and the social science of data science. Participant observation and theorization of the institutional, social, and cultural formation of data science in the contemporary research university. Berkeley co-lead for Data Science Studies Working Group within the Moore-Sloan Data Science Environments collaboration (Berkeley, University of Washington, New York University); Visiting Researcher, AMP Lab (Algorithms, Machines, and People) and RISE Lab (Real-time Intelligent Secure Execution), Department of Electrical Engineering and Computer Sciences.

Heidegger and theoretical physics. Intellectual-cultural history of Heidegger's open-hidden engagement with theoretical physics (relativity, quantum mechanics, quantum field theory). Traced through synthetic reading of Heidegger's writings, lecture courses, and notes from 1912 into the 1950s. Argues for re-understanding Heidegger as positioned within contemporary debates among scientists and philosophers about the nature and possibility of science.

Engineering nuclear waste: Constructing knowledge and uncertainty in two regulatory regimes (German/American). Tracing the development of this field of observational, experimental, and computational science, 1940s to the present.

**RESEARCH FUNDING**

Mozilla Foundation	Educational Ecosystem for Responsible Computing (PI Lisa Yan)	2023-
Mozilla Foundation	Responsible Computer Science Challenge: Computer Science / Data Science in Human Context	2019-22
National Science Foundation	Convergence HDR: Social Science Insights for 21st Century Data Science Education (PI)	2017-22
National Science Foundation	Making Ethics Explicit: Relocating Ethics to the Core of Engineering Education (co-PI, William E. Kastenberg PI, Joonhong Ahn, Mary Sunderland co-PIs)	2012-15
National Science Foundation	STS Forum on Fukushima: Building a Transnational Research Agenda and Strategy for Engagement through a Social Scientific Understanding of the Disaster Sciences (co-PI, Atsushi Akera PI, Kim Fortun co-PI)	2012-13
Andrew W.Mellon Foundation	Supplemental Award to Training in Nuclear Engineering (PI)	2009-11
National Science Foundation	Shaping Evolutionary Biology in Berkeley's Museum of Vertebrate Zoology (PI, Elihu M. Gerson, James R. Griesemer, Craig Moritz co-PIs)	2008-12
Alexander von Humboldt Foundation (TransCoop)	Weimar Culture, Causality, and Quantum theory (co-PI, Helmuth Trischler PI, Alexei Kojevnikov co-PI)	2007-09
National Science Foundation	Conference: The Cultural Alchemy of the Exact Sciences: Revisiting the Forman Thesis (PI, Alexei Kojevnikov co-PI)	2007
UC Energy Institute	Developing Expertise in Nuclear Waste Management: A Historical Analysis (PI)	2006-07
Townsend Center for the Humanities	"Writing, Writing, Writing": The Natural History Field Journal as Literary Text and Social Tool (PI)	2006
Vice Chancellor - Research	Berkeley Research Futures: Science and Technology Studies (co-PI, John Lie PI)	2005-06
National Science Foundation	Oppenheimer as Scientific Intellectual: A Centennial Workshop (co-PI, David A. Hollinger PI)	2004
National Science Foundation	CAREER: Nuclear History as History of Science (PI)	2001-2008
Center for Studies in Higher Education	Evolving Understandings of Research Administration (PI)	2000-01
Hellman Family Faculty Fund	History of Science in Nuclear Waste Management (PI)	1999-2001
National Science Foundation	Heisenberg in West Germany (PI)	1998-99
UC Institute for Global Conflict and Cooperation	Conference: Physicists in the Postwar Political Arena: Comparative Perspectives (PI)	1997-98

Also multiple doctoral dissertation improvement grants (student co-PIs) from the National Science Foundation; small grants from the UC Berkeley Committee on Research, Department of History Shepard Fund, and Center for German and European Studies. Total extramural research funding exceeds \$1.3M.

**INSTITUTIONAL GRANTS**

National Science Foundation	Undergraduate Data Science Education at Scale (1 of 4 initial co-PIs, Dave Harding PI, \$3M)	2019-24
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Gordon and Betty Moore Foundation & Alfred P. Sloan Foundation	Data Science Environments (1 of 12 co-PIs, Saul Perlmutter PI, \$12.7M)	2013-18
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## TEACHING

Hist 24	freshman seminar	Scientific revolutions
Hist 30B	lower-division lecture	Science and society since the Scientific Revolution
Hist 39	fresh-soph seminar	Nuclear Berkeley, nuclear world
Hist 100	upper-division lecture	Nuclear Berkeley, nuclear world
Hist 101	undergrad research seminar	Writers' group, American higher education, Science and modernity, Physical science and modern society
Hist 103	undergrad reading seminar	Science under Hitler, Stalin, and Mao, Science under National Socialism, Physicists as philosophers in the 20th century
Hist 138	upper-division lecture	History of science in the U.S.
Hist 181B	upper-division lecture	Modern physics
Hist C184D / DATA C104	upper-division lecture	Human contexts and ethics of data
Hist 275	grad reading seminar	Introduction to the history of science
Hist 280	grad reading seminar	American science, Modernity and science, Science under National Socialism, Data science (history, philosophy, sociology), History of quantification
Hist 285	grad research seminar	History of science, various offerings tuned to student needs
Hist 290	grad colloquium	History of science colloquium (graded S/U)
Hist 299	grad indep study	History of science

Advising of senior theses, honors theses, and independent study projects: History, Architecture, Anthropology Ph.D. and Orals committees: History, Philosophy, Sociology, Mathematics, School of Information, Energy & Resources Group, German, Slavic, ad hoc interdisciplinary program

Past point person in History for the Cal Teach minor, preparing Berkeley undergraduates in science and engineering to become K-12 math and science teachers

Supervisor of undergraduate research: URAP (Undergraduate Research Apprentice Program), SURF (Summer Undergraduate Research Fellowship), Townsend Center for the Humanities GROUP (Geballe Research Opportunities for Undergraduates Program) summer apprenticeship

Instructional grants: History 103, History 138, History 181B, instructors' manuals for History 101 and 103

Presidential Chair Fellowships: quantitative social science, data science and social justice (Data C100 and C104)

## UNIVERSITY SERVICE

### Departmental and Administrative Service

Chair, Department of History	2021-
Associate Dean for Strategy and Planning, Division of Computing, Data Science, and Society	2019-20
Faculty Lead, Data Science Education Program	2016-20
Chair, Faculty Advisory Board, Data Science Planning Initiative	2015-16
Co-Chair, Data Sciences Education Rapid Action Team	2014
Operational Lead and Interim Director, Social Sciences Data Laboratory (D-Lab)	2012-14
Associate Dean, Division of Social Sciences	2010-14
Vice Chair for Curriculum, Department of History	2010-11
Director, Office for History of Science and Technology	2000-10
Co-Director, Science, Technology, and Society Center	2005-07

### Academic Senate

Senate Executive Committee and Gimlet Group, Elected Member	2019-20
Assembly Representation, Elected Member	2019-20



Divisional Council, Elected Member	2018-20
Task Force on Microcredentials	2018-19
Committee on Planning and Budget (UCPB), systemwide Academic Senate	2017-18
Committee on Academic Planning and Resource Allocation (CAPRA)	2012-18 2020-21

**Campus Service (selected)**

Townsend Center for the Humanities Advisory Committee	2019-22
Advisory Committee for Graduate Student and Postdoctoral Scholar Professional Development	2019-20
Institute for Governmental Studies Faculty Advisory Committee	2018-20
Signature Initiative Working Group on Inclusive Intelligence	2018-19
Faculty Leadership Academy	2018-19
Townsend Center for the Humanities Fellowship Review Committee	2018-19
Digital Humanities Academic Advisory Board	2017-22
Digital Humanities Council	2013-22
Campus Committee on Classroom Policy and Management (CCCPM)	2015-17
IT Strategy Committee and Research, Teaching, and Learning Technologies Committee	2014-18
Campus Shared Services Faculty Advisory Committee	2014-15

**Search Committees (selected)**

Chief Information Officer / Associate Vice Chancellor	2020
Director, Institute of Governmental Studies	2020
Chief Academic Technology Officer / Director of Research, Teaching, and Learning	2019
Associate Vice Chancellor for Research	2018
Executive Director, Berkeley Institute for Data Science	2014
Director, Center for Studies in Higher Education	2014
Associate Director, Social Science Matrix	2014
Executive Director, Office of Planning and Analysis	2014
History Faculty Search – U.S. West	2019
History Faculty Search – History of Science (Chair)	2008

**PROFESSIONAL SERVICE****Professional Organizations**

Program Committee, Data Science Leadership Summit	2020
Executive Committee, History of Science Society	2013-16
Abram Pais Prize for History of Physics Selection Committee Chair, American Physical Society	2014
Executive Committee, Forum on the History of Physics, American Physical Society	2009-12
Nominating Committee, History of Science Society, 2004	2004
Nominating Committee, Section L, American Association for the Advancement of Science	2003-06
President, West Coast History of Science Society	2000-01

**Editorial and Reviewing**

Associate Editor, <i>Historical studies in the natural sciences</i>	2016-
Member of the editorial board, <i>Historical studies in the natural sciences</i>	2013-15
Chair of the editorial board, <i>Historical studies in the natural sciences</i> , responsible for leading the transition from <i>Historical studies in the physical and biological sciences</i> , 2006-08	2008-13
Review panel member, National Science Foundation	2009-12
Reviewer, <i>Minerva, Technology and culture</i> , <i>Berichte zur Wissenschaftsgeschichte</i> , <i>Modern Intellectual History</i> , Princeton University Press, Johns Hopkins University Press, University of Chicago Press, Rutgers University Press, Cambridge University Press, National Science Foundation, outside tenure and promotion committees	

**Conferences**

Organizing committee, “Advanced Summer School of Radioactive Waste Disposal with Social-Scientific Literacy,” University of California, Berkeley, and Carlsbad, New Mexico	2009, 2011
Annual Meeting Co-Chair, History of Science Society	2009
Co-organizer, conference on “The cultural alchemy of the exact sciences: Revisiting the Forman Thesis,” Vancouver, University of British Columbia	2007
Co-organizer, conference on “Oppenheimer as scientific intellectual”; coordinator of campus efforts for Oppenheimer centennial	2004
Local arrangements coordinator, West Coast History of Science Society and All-UC/Stanford Workshop, University of California, Berkeley	2000
Planning collective chair, conference on “Physicists in the postwar political arena: Comparative perspectives,” University of California, Berkeley	1998
Local arrangements coordinator and session organizer, First All-UC/Stanford Workshop in History of Science, University of California, Berkeley	1997
Session organizer, History of Science Society annual meeting, various meetings	
<b>Extramural</b>	2020-
Co-founder, <a href="http://2i2c.org">2i2c.org</a> . 2i2c designs, develops, and operates open source infrastructure (JupyterHubs) in the cloud for communities of practice in research and education. 2i2c is a non-profit, fiscally-sponsored project of Code for Science and Society, a US 501(c)(3) public charity.	

## PROFESSIONAL MEMBERSHIPS

History of Science Society  
 American Historical Association  
 German Studies Association  
 Society for the History of Technology  
 Society for Social Studies of Science  
 American Association for the Advancement of Science (AAAS Fellow)  
 American Physical Society (APS Fellow)  
 American Nuclear Society  
 International Network for Engineering Studies