

ANGELA N. H. CREAGER

Department of History
Princeton University
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APPOINTMENTS

2015–present Thomas M. Siebel Professor in the History of Science, Princeton University
2012–2015 Philip and Beulah Rollins Professor of History
2006–2012 Professor of History
2001–2006 Associate Professor of History
1994–2001 Assistant Professor of History

1993–1994 Mellon Postdoctoral Fellow, MIT, Program in Science, Technology, and Society, Project on Comparative Perspectives on the History and Social Study of Modern Life Sciences

1991–1993 Postdoctoral Associate and Teaching Fellow, Harvard University, Department of the History of Science

EDUCATION

1991 Ph.D. in biochemistry, University of California, Berkeley
“Effects of Amino Acid Substitutions at the Interchain Interface on the Stability of the Catalytic Subunit of ATCase,” Advisor: Howard K. Schachman

1985 B.A. in biochemistry and English, Rice University, Houston, Texas
Degree awarded *magna cum laude*; inducted into Phi Beta Kappa

AWARDS

2020–2021 *Fellow*, Wissenschaftskolleg zu Berlin

2020 *Member*, American Philosophical Society

2018 *Patrick Suppes Prize in the History of Science for Life Atomic: A History of Radioisotopes in Science and Medicine*, awarded by the American Philosophical Society

2016 *Corresponding member*, International Academy of the History of Science/Académie Internationale d’Histoire des Science

2015–2016 *Presidential Fellow*, Chemical Heritage Foundation

2009 *Price/Webster Prize* for “After the Double Helix: Rosalind Franklin’s Research on *Tobacco mosaic virus*” with Gregory Morgan, awarded by the History of Science Society

2008 *Fellow*, American Association for the Advancement of Science

2007–2011 *National Institutes of Health*, National Library of Medicine Grants for Scholarly Works in Biomedicine and Health, “Atoms for Peace and Health,” 5G13LM9100

2006–2007 *National Endowment for the Humanities Fellowship Award*, “Atoms for Peace and Health”
ACLS Frederick Burkhardt Fellowship for Recently-Tenured Scholars, declined

1999–2006 *National Science Foundation CAREER Award*, “Life Science in the Atomic Age,” SBE 98-75012

1998 *President’s Award for Distinguished Teaching*, Princeton University

1998–2001 *Philip and Beulah Rollins Bicentennial Preceptorship*

1994–1998 *National Science Foundation Scholars’ Award*, “The Biography of a Virus,” Program in Science & Technology Studies, SBE 94-12291

1991–1993 *National Science Foundation Postdoctoral Award, Program in Science & Technology Studies, SBE 90-03042*

PUBLICATIONS

Books

- 2013 *Life Atomic: A History of Radioisotopes in Science and Medicine*, University of Chicago Press (paper edition issued 2015)
Choice Magazine: Choice Outstanding Academic Title, 2014
American Philosophical Society: Patrick Suppes Prize in the History of Science, 2018
 Chapter 4 reprinted as “Radioisotopes as Political Instruments from Truman to Eisenhower,” in *Nuclear Energy and the Legacy of Harry S. Truman*, edited by J. Samuel Walker (Truman State University Press, 2016), 108–145
 Chinese translation issued 2021, Tsinghua University Press
- 2002 *The Life of a Virus: Tobacco Mosaic Virus as an Experimental Model*, University of Chicago Press

Co-authored Books

- 2021 *Residues: Thinking Through Chemical Environments*, co-authored with Soraya Boudia, Scott Frickel, Emmanuel Henry, Nathalie Jas, Carsten Reinhardt, and Jody Roberts, Rutgers University Press

Edited Volumes and Special Issues

- 2021 *Risk on the Table: Food Production, Health, and Environment*, edited with Jean-Paul Gaudillière, in Berghahn Book Series “Environment in History: International Perspectives,” vol. 18, published in association with the European Society for Environmental History and the Rachel Carson Center, Munich
- 2020 *Learning by the Book: Manuals and Handbooks in the History of Science*, edited with Mathias Grote and Elaine Leong, *Themes*, vol. 5
Building on Stone: Perspectives on the Shelby Cullom Davis Center for Historical Studies at Fifty, Princeton University Printing
- 2019 *History of Science Reader*, co-edited with Dagmar Schäfer, 科学史新论: 范式更新与视角转换 (浙江大学出版社 (Tsinghua University Press, 2019), English online version published by Edition Open Access: <https://www.mprl-series.mpg.de/studies/11/index.html>
- 2007 *Science without Laws: Model Systems, Cases, Exemplary Narratives*, edited with Elizabeth Lunbeck and M. Norton Wise, Duke University Press
- 2006 “Radiobiology in the Atomic Age: Changing Research Practices and Policies in Comparative Perspective,” edited with María-Jesús Santesmases. Special issue of introduction and five essays in *Journal of the History of Biology* 29: 637–794
- 2002 *The Animal/Human Boundary: Historical Perspectives*, edited with William Chester Jordan, University of Rochester Press
- 2001 *Feminism in Twentieth-Century Science, Technology and Medicine*, edited with Elizabeth Lunbeck and Londa Schiebinger, University of Chicago Press

Research Articles and Book Chapters

- 2022 “Narratives of Genetic Selfhood,” *Berichte der Wissenschaftsgeschichte/History of Science and Humanities* 45(3): 468–486
<http://dx.doi.org/10.1002/bewi.202200022>
- “Tobacco Mosaic Virus and the History of Molecular Biology,” *Annual Review of Virology* 109: 39–55
<https://doi.org/10.1146/annurev-virology-100520-014520>
- “Sharing the ‘Safe’ Atom? The International Atomic Energy Agency and Nuclear Regulation through Standardization,” with Maria Rentetzi, in *Living in a Nuclear World: From Fukushima to Hiroshima*, edited by Bernadette Bensaude-Vincent, Soraya Boudia, and Kyoko Sato (London: Routledge), 111–131
- 2021 “To Test or Not To Test: Tools, Rules, and Corporate Data in U.S. Chemicals Regulation,” *Science, Technology & Human Values* 46(5): 975–997
<https://doi.org/10.1177/01622439211013373>
- “‘EAT. DIE.’: The Domestication of Carcinogens in the 1980s,” *Risk on the Table: Food Production, Health, and the Environment*, edited by Angela N. H. Creager and Jean-Paul Gaudillière (Berghahn Books), 105–137, revised version of The Hans Rausing Lecture 2015 issued as a booklet by Uppsala Universitet
- 2020 “Recipes for Recombining DNA: A History of *Molecular Cloning: A Laboratory Manual*,” *BJHS Themes* 5: 225–243
- “Learning by the Book: Manuals and Handbooks in the History of Science [introduction to special issue],” with Mathias Grote and Elaine Leong, *BJHS Themes* 5: 1–13
- 2019 “History of Science in a World of Readers: Frames of Reference for Global Exchange,” with Dagmar Schäfer, 科学史新论: 范式更新与视角转换 (Tsinghua University Press); English online version in *History of Science in a World of Readers* (Edition Open Access), <https://www.mprl-series.mpg.de/studies/11/index.html>, 5–18
- 2018 “Human Bodies as Chemical Sensors: A History of Biomonitoring,” *Studies in History and Philosophy of Science* 70: 70–81
- 2017 “A Chemical Reaction to the Historiography of Biology,” *Ambix* 64: 343–359
- 2016 “Paradigms and Exemplars Meet Biomedicine,” in *Kuhn’s ‘Structure of Scientific Revolutions’ at 50: Reflections on a Science Classic*, edited by Lorraine Daston and Robert Richards (Chicago: University of Chicago Press), 151–166
- 2015 “Radiation, Cancer, and Mutation in the Atomic Age,” *Historical Studies in the Natural Sciences* 45: 14–48
- 2014 “The Political Life of Mutagens: A History of the Ames Test,” in *Powerless Science? Science and Politics in a Toxic World*, edited by Soraya Boudia and Nathalie Jas (New York: Berghahn Books), 46–64
- “Atomic Tracings: Radioisotopes in Biology and Medicine,” in *Science and Technology in the Global Cold War*, edited by Naomi Oreskes and John Krige (Cambridge, MA: MIT Press), 31–73
- 2013 “Timescapes of Radioactive Tracers in Biochemistry and Ecology,” *History and Philosophy of the Life Sciences* 35: 83–90
- 2009 “Radioisotopes as Political Instruments, 1946–1953,” *Dynamis* 29: 219–239
- “Phosphorus-32 in the Phage Group: Radioisotopes as Historical Tracers of Molecular Biology,” *Studies in History and Philosophy of the Biological and Biomedical Sciences* 40: 29–42

- 2008 "After the Double Helix: Rosalind Franklin's Research on Tobacco mosaic virus," with Gregory J. Morgan, *Isis* 99: 239–272
Awarded the *Price/Webster Prize*, from the History of Science Society, 2009
Reprinted in Massimo Mazzotti, ed., *History of Science* (London: Routledge, 2016)
- "Mobilizing Biomedicine: Virus Research Between Lay Health Organizations and the U.S. Federal Government, 1935–1955," *Biomedicine in the Twentieth Century: Practices, Policies, and Politics*, edited by Caroline Hannaway (Amsterdam: IOS Press), 171–201
- "Molecular Surveillance: A History of Radioimmunoassays," *Crafting Immunity: Working Histories of Clinical Immunology*, edited by Pauline Mazumdar, Jennifer Keelan, and Kenton Kroker (Aldershot: Ashgate Publishing), 201–230
- 2007 "Adaptation or Selection? Old Issues and New Stakes in the Postwar Debates over Bacterial Drug Resistance," *Studies in History and Philosophy of the Biological and Biomedical Sciences* 38: 159–190
- 2006 "Nuclear Energy in the Service of Biomedicine: The U.S. Atomic Energy Commission's Radioisotope Program, 1946–1950," *Journal of the History of Biology* 39: 649–684
- 2004 "The Industrialization of Radioisotopes by the U.S. Atomic Energy Commission," *The Science–Industry Nexus: History, Policy, Implications*, proceedings of Nobel Symposium 123, edited by Karl Grandin, Nina Wormbs, and Sven Widmalm (Sagamore Beach, MA: Science History Publications), 141–167
- "Mapping Genes in Microorganisms," *From Molecular Genetics to Genomics: Mapping Cultures of Twentieth Century Genetics*, edited by Jean-Paul Gaudillière and Hans-Jörg Rheinberger (London: Routledge), 9–41
- 2002 "Tracing the Politics of Changing Postwar Research Practices: The Export of 'American' Radioisotopes to European Biologists," *Studies in History and Philosophy of the Biological and Biomedical Sciences* 33C: 367–388
- 2001 "Experimental Arrangements and Technologies of Visualization: Cancer as a Viral Epidemic (1930–1960)," with Jean-Paul Gaudillière, *Heredity and Infection: The History of Disease Transmission*, edited by Jean-Paul Gaudillière and Ilana Löwy (London: Routledge, 2001), pp. 203–241
- 2000 "From Blood Fractions to Antibody Structure: Gamma Globulin Research Growing Out of World War II," *Singular Selves: Historical Issues and Contemporary Debates in Immunology*, edited by Anne-Marie Moulin and Alberto Cambrosio (Amsterdam: Elsevier Press), 140–154
- 1999 "What Blood Told Dr. Cohn: World War II, Plasma Fractionation, and the Growth of Human Blood Research," *Studies in History and Philosophy of Biological and Biomedical Sciences* 30C: 377–405
- 1998 "Biotechnology and Blood: Edwin Cohn's Plasma Fractionation Project, 1940–1953," *Private Science: Biotechnology and the Rise of the Molecular Sciences*, edited by Arnold Thackray (Philadelphia: University of Pennsylvania Press), 39–62
- "Producing Molecular Therapeutics from Human Blood: Edwin Cohn's Wartime Enterprise," *Molecularizing Biology and Medicine: New Practices and Alliances, 1910s–1970s*, edited by Soraya de Chadarevian and Harmke Kamminga (Amsterdam: Harwood Academic Publishers), 107–138
- 1996 "Meanings in Search of Experiments and Vice-Versa: The Invention of Allosteric Regulation in Paris and Berkeley, 1959–1968," with Jean-Paul Gaudillière, *Historical Studies in the Physical and Biological Sciences* 27: 1–89

- “Wendell Stanley’s Dream of a Free-Standing Biochemistry Department at the University of California, Berkeley,” *Journal of the History of Biology* 29: 331–360
- 1994 “Association of the Catalytic Subunit of Aspartate Transcarbamoylase with a Polypeptide Fragment of the Regulatory Chair Leads to Increases in Thermal Stability,” with Cynthia B. Peterson, Bin-Bing Zhou, Durwynne Hsieh, and H.K. Schachman, *Protein Science* 3: 960–966
- 1988 “A High Melting Structure in DNA Distinguishes Phases of the Cell Cycle,” with Gretchen A. Rice, Nancy A. Touchette, Jonathon Goldberg, and R. David Cole, *Experimental Cell Research* 177: 221–231

Book Reviews and Short Publications

- 2022 “Review of *How the Clinic Made Gender: The Medical History of a Transformative Idea* by Sandra Eder,” *The FASEB Journal* 36(6): e22351, <https://doi.org/10.1096/fj.202200682>
- “Model Systems Unbound,” *Journal of the History of Biology*
<https://doi.org/10.1007/s10739-022-09675-8>
- “The Radioactive Footprint of the Anthropocene,” in *Anthropogenic Markers: Stratigraphy and Context*, eds. Christoph Rosol and Giulia Rispoli, <https://www.anthropocene-curriculum.org/anthropogenic-markers/nuclear-anthropocene/contribution/the-radioactive-footprint-of-the-anthropocene>
- “Department of History” entry, with William Chester Jordan, for *A Princeton Companion*, ed. Robert K. Durkee (Princeton, NJ: Princeton University Press)
- 2021 “The Molecular Vista: Current Perspectives on Molecules and Life in the Twentieth Century,” with Mathias Grote, Lisa Onaga, Soraya de Chadarevian, Dan Liu, Gina Surita, and Sara Tracey,” *History and Philosophy of the Life Sciences* 43: 16,
<https://doi.org/10.1007/s40656-020-00364-5>
- Review of *Aesthetics, Industry and Science: Hermann von Helmholtz and the Berlin Physical Society* by M. Norton Wise, *Isis* 112 (2021): 202–203
- 2020 “Finding the Biological,” *Historical Studies in the Natural Sciences* 50: 74–80
- 2019 “I Am an Axolotl,” *Surprise: 107 Variations on the Unexpected* [in honor of Lorraine Daston], eds. Mechthild Fend, Anke te Heesen, Christine von Oertzen, and Fernando Vidal (Berlin: Druckerei Christian und Cornelius Rüss GbR, 2019), 66–69
- “From Bomb to Moon,” review of *The Life and Science of Harold C. Urey* by Matthew Shindell, *Nature* 574: 331–332
- Review of *The Circulation of Penicillin in Spain: Health, Wealth and Authority* by María Jesús Santesmases, *Journal of the History of Biology* 52 (2019): 199–201
- 2018 “Residues: Rethinking Chemical Environments,” with Soraya Boudia, Scott Frickel, Emmanuel Henry, Nathalie Jas, Carsten Reinhardt, and Jody Roberts, *Engaging Science, Technology, and Society* 4: 165–189
- 2017 Review of *Rendering Life Molecular: Models, Modelers, and Excitable Matter* by Natasha Myers, *Technology & Culture* 58: 1103–1104
- Review of *Love Canal: A Toxic History from Colonial Time to the Present*, by Richard S. Newman, published on H- Environment, March
- 2016 “Sound Biology,” review of *The Road to Discovery: A Short History of Cold Spring Harbor Laboratory* by Jan A. Witkowski, *FASEB Journal* 30: 1694–1695

- "Risky Business," review of *Strange Glow: The Story of Radiation*, by Timothy J. Jorgensen, *Science* 351: 1034
- 2015 "Revisiting *Risk Society*," *Shells & Pebbles* website
- 2014 "'Happily Ever After' for Cancer Viruses?" *Studies in History and Philosophy of Biological and Biomedical Sciences* 48: 260–262
- "The Committee on the Biological Effects of Atomic Radiation," *Proceedings in the National Academy of Sciences* 111, supp. 2: 9349–9352
- 2012 "Healing Through Heredity," review of *The Science of Human Perfection: How Genes Became the Heart of American Medicine* by Nathaniel Comfort, *Science* 338: 607–608
- "The Right Way to Get It Wrong," with David Kaiser, *Scientific American*, June 2012, pp. 70–75
- Translated into Italian: "Il modo giusto di sbagliare," *Le Scienze*, August 2012; Japanese: "Usò kara deta dai hakken," *Nikkei Saiensu*, October 2012, pp. 76–83; German: "Fruchtbare Irrtümer," *Spektrum*, December 14, 2012; Spanish: "Errores fecundos: la ciencia no avanza solo a base de aciertos. Algunas equivocaciones han ayudado a remodeler por complete una discipline," *Investigación y ciencia* 434 (2012): 82–87.
- 2011 "Designing a Responsible Conduct of Research Course for Historians and Historians of Science," with John Haldon, *Perspectives on History* 49/8: 31–32
- Review of *Francis Crick: Hunter of Life's Secrets* by Robert Olby, *Isis* 102: 202–204
- 2010 "The View a Decade On," review of *Drawing the Map of Life: Inside the Human Genome Project* by Victor K. McElheny, *Science* 329: 143–144
- Review of Bruno Strasser, *La fabrique d'une nouvelle science: La biologie moléculaire à l'âge atomique (1945–1964)*, *Nuncius* 25: 64–66
- "The Political Life of Mutagens: A History of the Ames Test," *Making Mutations: Objects, Practices, Contexts*, eds. Luis Campos and Alexander Schwerin (Berlin: Max Planck Institute for the History of Science Preprint 393), 285–306
- Review of *Elizabeth Blackburn and the Story of Telomeres: Deciphering the Ends of DNA* by Catherine Brady, *Annals of Science* 67: 265–268
- Review of Ellen Leopold, *Under the Radar: Cancer and the Cold War*, and Gerald Kutcher, *Contested Medicine: Cancer Research and the Military*, for *Bulletin of the History of Medicine* 84: 151–154
- "The Paradox of the Phage Group," essay review of *Phage and the Origins of Molecular Biology: The Centennial Edition*, eds. John Cairns, Gunther S. Stent, and James D. Watson, *Journal of the History of Biology* 43: 183–193
- 2009 Review of *Promising Genomics: Iceland and deCODE Genetics in a World of Speculation* by Mike Fortun, *Isis* 100: 944–945
- "Technical Matters: Methods, Knowledge and Infrastructure in Twentieth-Century Life Science," with Hannah Landecker, *Nature Methods* 6: 701–705
- 2008 "Atomic Transfiguration," *The Lancet* 372: 1726–1727
- "Techniques: Early Technological Breakthroughs at Cold Spring Harbor," *Life Illuminated: Selected Papers from Cold Spring Harbor, volume 2, 1972–1994*, edited by Jan Witkowski, Alexander Gann, and Joseph Sambrook (Cold Spring Harbor Laboratory Press), 209–213

- “Historical Fine-Mapping,” essay review of *Reconceiving the Gene: Seymour Benzer’s Adventures in Phage Genetics* by Frederic L. Holmes, edited by William C. Summers, *Perspectives in Biology and Medicine* 51: 144–148
- “Christian B. Anfinsen,” entry for *New Dictionary of Scientific Biography* (Charles Scribner’s Sons/Thomson Gale), vol. 1, 76–82
- “Rosalind Franklin,” entry for *Encyclopedia of Women in World History*, editor-in-chief Bonnie G. Smith (New York: Oxford University Press), vol. 2, 336–337
- 2007 Review of *Rockefeller Money, the Laboratory and Medicine in Edinburgh 1919–1930: New Science in an Old Country* by Christopher Lawrence, *The Scottish Historical Review* 86: 361–363
- 2006 Review of *Genetic Nature/Culture: Anthropology and Science beyond the Two-Culture Divide* edited by Alan H. Goodman, Deborah Heath, and M. Susan Lindee, *Isis* 97: 788–790
- “Radiobiology in the Atomic Age: Changing Research Practices and Policies in Comparative Perspective,” with María Jesús Santesmasés, *Journal of the History of Biology* 39: 637–648
- “Using Radioactive Tracers to Illuminate the History of Molecular Biology,” *History and Epistemology of Molecular Biology and Beyond: Problems and Perspectives* (Berlin: Max Planck Institute for the History of Science Preprint 210), 23–31
- 2004 “Apparecchiature e tecniche di laboratorio,” entry for *Storia della scienza moderna e contemporanea*, editor-in-chief Sandro Petruccioli, Roma, Istituto della Enciclopedia Italiana, 10 vol., 2001–2004, vol. VIII, *Biomedicina* (Torino: UTET), 758–762
- 2003 Review of *Edwin J. Cohn and the Development of Protein Chemistry* by Douglas M. Surgenor, *Isis* 94: 763–765
- “Building Biology Across the Atlantic,” essay review of *Designs for Life: Molecular Biology after World War II* by Soraya de Chadarevian and *Inventer la biomédecine: La France, l’Amérique et la production des saviors du vivant (1945–1965)* by Jean-Paul Gaudillière, *Journal of the History of Biology* 36: 579–589
- “Crystallizing a Life in Science,” review of *Rosalind Franklin: The Dark Lady of DNA* by Brenda Maddox, *American Scientist* 91: 64–66
- 2002 Review of *Pavlov’s Physiology Factory: Experiment, Interpretation, Laboratory Enterprise* by Daniel P. Todes, *Nature Medicine* 8: 773
- “Rosalind E. Franklin,” entry for *Encyclopedia of Evolution*, ed. Mark Pagel (New York: Oxford University Press), 367–368
- “Contraception from Contraband to Rx,” review of *Devices and Desires: A History of Contraceptives in America* by Andrea Tone and *Sexual Chemistry: A History of the Contraceptive Pill* by Lara V. Marks, *American Scientist* 90: 88–90
- 2001 “Hershey Heaven,” review of *We Can Sleep Later: Alfred D. Hershey and the Origins of Molecular Biology*, edited by Franklin W. Stahl, *Nature Structural Biology* 8: 18–19
- 2000 Review of *Tobacco Mosaic Virus: One Hundred Years of Contributions to Virology*, edited by Karen-Beth G. Scholthof, John G. Shaw, and Milton Zaitlin, *Journal of the History of Biology* 33: 604–606
- 1999 Review of *Correcting the Blueprint of Life: An Historical Account of the Discovery of DNA Repair Mechanisms* by Errol C. Friedberg, *Bulletin of the History of Medicine* 73: 541–543

- “Research Materials and Model Organisms in the Biological and Biomedical Sciences,” with Gerald L. Geison, *Studies in History and Philosophy of Biological and Biomedical Sciences* 30C: 315–318
- “Tobacco Mosaic Virus: Pioneering Research for a Century,” with Karen-Beth G. Scholthof, Vitaly Citovsky, and Herman Scholthof, *The Plant Cell* 11: 301–308
- “How Constructive is Deconstruction?” essay review of *Toward a History of Epistemic Things* by Hans-Jörg Rheinberger, with Manfred D. Laubichler, *Studies in History and Philosophy of Biological and Biomedical Sciences* 30C: 129–142
- 1997 Review of *Im/partial Science: Gender Ideology in Molecular Biology* by Bonnie B. Spanier, *Journal of the History of Biology* 30: 142–144
- 1996 “Biochemistry,” keyword entry, *Dictionary of American History Supplement*, ed. Robert H. Ferrell and Joan Hoff (New York: Charles Scribner’s Sons Reference Books), 76–79
- 1995 Review of *The Uses of Life: A History of Biotechnology* by Robert Bud, *Isis* 86: 685–687
- “In the Fly Room,” essay review of *Lords of the Fly* by Robert E. Kohler, *Historical Studies in the Physical and Biological Sciences* 25: 357–360
- Review of *A Skeptical Biochemist* by Joseph Fruton, *Journal of the History of Biology* 28: 174–176
- 1993 Review of *A Documentary History of Biochemistry, 1770–1940* by Mikuláš Teich, *Journal of the History of Biology* 26: 162–163

PROFESSIONAL ACTIVITIES

- Board, Consortium for the History of Science, Technology, and Medicine, 2018–2024
- First Vice-President, Division of History of Science and Technology, International Union of History and Philosophy of Science and Technology, 2017–2021
- Internationale Fachbeirat, Forschungsprogramm zur Geschichte der Max-Planck-Gesellschaft, 2015–2022
- Scientific Advisory Board, Max Planck Institute for the History of Science, 2015–2022
- Overseers’ Committee to Visit the Department of the History of Science, Harvard University, 2002–2005 (visited in spring 2003), reappointed for committee’s visit in April 2011
- Overseers’ Committee to Visit the Program in Science and Technology Studies, Colby College, October 2010
- Executive Committee, Philadelphia Area Consortium for the History of Science, 2004–2008

Editorial Boards

- University of Chicago Press–Chemical Heritage Foundation Series Board, *Synthesis*, 2008–present
- Advisory Board, *NTM*, 2018–2021
- Editorial Board, *History and Philosophy of the Life Sciences*, 2013–2017
- Book Review Board, *Science*, 2007–2017
- Advisory Editor, *Historical Studies in the Natural Sciences*, 2007–2021
- Book Review Editor, *Historical Studies in the Natural Sciences*, 2007–2011
- Editorial Board, *Journal of the History of Biology*, 2002–2014
- Advisory Editorial Board, *Isis*, 2000–2002, 2007–2009

History of Science Society

- President, 2014–2015; Vice-President, 2012–2013; Past President (on Council), 2016–2017
- Three Societies’ Meeting Program Co-Chair, 2012
- Council, 2003–2005
- Annual Meeting Program Co-Chair, 2004

History of Women in Science Prize Committee, 2000–2002
 Committee on Meetings and Programs, 1997–2000, 2003–2006
 Co-chair of Women’s Caucus, 1994–1996

American Association for the Advancement of Science

Section on History and Philosophy of Science (L)
 Chair-Elect 2004, Chair 2005, Retiring Chair 2006
 Electorate Nominating Committee, 1998–2001, 2006–2007 (ex officio as Retiring Chair)
Section on Societal Impacts of Science and Engineering (X)
 Electorate Nominating Committee, 2010–2013

Princeton University

Chair, Department of History, 2020–2024
 Executive Committee, Technology and Society Certificate Program, 2010–2025
 Director, Shelby Cullom Davis Center for Historical Study, 2016–2020
 Chair, Committee on Naming, Council of the Princeton University Community, 2016–2019
 Director of Graduate Studies, History of Science, 2000–2002, 2003–2006, 2007–2010, 2015–2016
 Faculty Advisory Committee on Appointments and Advancements, 2015–2016
 Executive Committee, Center for Health and Well-Being, 2015–2018
 Steering Committee on Undergraduate Women in Leadership, 2009–2010
 Target of Opportunity Committee, 2008–2009
 Executive Committee, Council of the Humanities & Committee on Humanistic Studies, 2008–2012
 Program Committee, Program in the Gender and Sexuality Studies, 1996–2015
 Chair, Rights and Rules Committee, 2006
 Council on Science and Technology, Princeton University, 1999–2007
 Committee on the Sixth Residential College, 2001–2002
 Executive Committee and Faculty Advisory Committee on Policy, Council of the Princeton University Community, 1998–2001
 Search Committee for Chief Affairs Officer for Student Life, 1999–2000
 Executive Secretary, Shelby Cullom Davis Center for Historical Study, 1997–1998
 Committee on Committees, 1997–1998

Chemical Heritage Foundation

Council Member, representing the American Society for Biochemistry and Molecular Biology, 2002–2006
 Outside reviewer, fellowship applications, 2005–2008, 2017

National Science Foundation

Panelist, Professional Opportunities for Women in Research and Education (POWRE), Social, Behavioral, and Economic Research Directorate, 1999

Ad hoc reviewer

Isis; Osiris; Journal of the History of Biology; Studies in History and Philosophy of Biological and Biomedical Sciences; Technology & Culture; Social Studies of Science; Science, Technology, and Human Values; Philosophy of Science; Journal of American History; Science in Context; Science Studies; History of Science; Dynamis; Ambix; Berichte zur Wissenschaftsgeschichte; Princeton University Press; Yale University Press; Harvard University Press; University of Chicago Press; Stanford University Press; Johns Hopkins University Press; Social Sciences and Humanities Research Council of Canada; Wellcome Trust; National Science Foundation

COURSES TAUGHT AT PRINCETON UNIVERSITY

Freshman Seminar 124, “Life as We Know It: A History of Biology,” seminar with weekly laboratory, spring 2001
Freshman Seminar 151, “To XY and Beyond: Sexual Difference and Sexuality in the History of Science,” fall 2008
Engineering/History/Sociology 277, Technology and Society Lecture Course, spring 2012, spring 2013, spring 2014
Gender and Sexuality Studies 393, Seminar on Gender and Science, fall 1994, fall 1995, fall 1997, fall 1999, spring 2002, fall 2003, fall 2005, fall 2007, fall 2009, fall 2012
History 396, History of Biology Lecture Course, spring 1996, spring 1998, spring 2000 (with laboratory), spring 2005, fall 2007, fall 2008, fall 2009, fall 2011, fall 2013, fall 2018, fall 2021
History 400, Junior Research Seminar, “Darwin’s Century,” fall 1995; “Atomic Legacies,” fall 2004
History 493, “1, 2, 3, Testing... in the History of Science, Technology, and Medicine,” spring 2019
History of Science 595, Introduction to the Historiography of Science, fall 2001, fall 2003, fall 2005, spring 2008, spring 2010, spring 2012, spring 2014, spring 2016, fall 2017 (2 sections), spring 2023
History of Science 596, History of the Life Sciences, “Biomedicine,” spring 2009, fall 2012
History of Science 598, History of Technology, “Computers and Organisms,” co-taught with Michael Mahoney, fall 1997, fall 2004
History of Science 599, Special Topics, “History of Molecular Biology,” spring 1995; “Model Systems,” co-taught with Norton Wise, spring 2000; “Radioactive Sciences,” co-taught with Michael Gordin, spring 2004; “Law & Science,” co-taught with Myles Jackson, spring 2020
History of Science 793, Graduate Readings in Gender and Science, fall 1994, fall 1999, fall 2004, spring 2006
History of Science 796, Graduate Readings in the History of Biology, spring 1998, fall 2001, spring 2002, spring 2004, spring 2007, fall 2007, spring 2009, fall 2009, fall 2011, fall 2013, fall 2015, spring 2016, spring 2017, fall 2021
Science and Technology Council/History/Molecular Biology/Humanities Council 297, “Transformative Questions in Biology,” fall 2018, fall 2019

DISSERTATION COMMITTEES AND GRADUATE STUDENTS

Alison McManus, first reader, 2022
 Gina Surita, *advisor*, 2022
 Kathryn Maxson Jones, *advisor*, 2021
 Charles Kollmer, *advisor*, 2020
 Esther Choi, first reader, 2019
 Michael Barany, first reader, 2016
 Evan Hepler-Smith, first reader, 2016
 Henry Cowles, first reader, 2014
 Victoria Lee, *co-advisor*, 2014
 Alicia Imperiale, examiner, 2014
 Carolyn Eisert, first reader, 2012
 Howard Chiang, *co-advisor*, 2012
 Helen Curry, Yale University, external reader, 2012
 Nathan Ha, *advisor*, 2011
 Benjamin Gross, second reader, 2011
 Joshua Rowe, second reader, 2011
 Melinda Baldwin, first reader, 2010
 Chin Jou, second reader, 2009
 Alistair Sponsel, *co-advisor*, 2009
 Jeris Stueland Yruma, first reader, 2008
 Jakub Novák, *advisor*, 2008
 Doogab Yi, *advisor*, 2008
 Rebecca Press Schwartz, second reader, 2008
 Todd M. Olszewski, Yale University, external reader, 2008
 Tania Munz, *advisor*, 2007

Catherine Nisbett, first reader, 2007
 Neeraja Sankaran, Yale University, second reader, 2006
 Joe Conley, first reader, 2006
 Joseph November, *advisor*, 2006
 Emily Brock, first reader, 2004
 Marwa Elshakry, second reader, 2003
 Samuel Roberts, second reader, 2002
 Ann Johnson, second reader, 2000
 David Berol, *advisor*, 2000
 Otniel Dror, first reader, 1998
 Leo Slater, second reader, 1997
 James E. Strick, second reader, 1996

Advisees among enrolled Princeton graduate students
 Haris Durrani

PRINCETON EVENTS ORGANIZED

Learning by the Book: Manuals and Handbooks in the History of Knowledge, international conference organized with Mathias Grote, Elaine Leong, and Kerstin von der Krone. Supported by Princeton's Center of Collaborative History, International Fund, David A. Gardner '69 Magic Project in the Humanities Council, and the German Historical Institute, Washington, DC

Joint Atlantic Seminar for the History of Biology, April 7, 2018, 53rd annual meeting; program of twelve speakers co-organized with Kathryn Maxson Jones and Erika Milam. Supported by Princeton's Center of Collaborative History and Program in History of Science

Risk at the Table: Food, Health and Environmental Exposure, workshop for Princeton's Program in History of Science and the Davis Center, March 10–11, 2017, co-organized with Jean-Paul Gaudillière

Debating Causation: Risk, Biology, Self, and Environment in Cancer Epistemology, 1950–2000, workshop for Princeton's Program in History of Science, October 21–22, 2011, co-organized with Keith Wailoo

Joint Atlantic Seminar for the History of Biology, April 5, 2008, 43rd annual meeting; program of six speakers co-organized with Graham Burnett. Supported by Princeton's Program in History of Science

Discovering Life, February 8–9, 2008, workshop for Princeton's Program in History of Science, co-organized with Daniel Garber

Atomic Sciences, November 5–6, 2004, workshop for Princeton's Program in History of Science, co-organized with Michael Gordin. Supported by NSF CAREER grant SBE 98-75012

Diasporas of Knowledge: The Migration of Science Among Elite and Vernacular Communities, 2001–2002, series of three workshops for Princeton's Program in History of Science in conjunction with the Davis Center for Historical Studies, co-organized with Mary Henninger-Voss

Joint Atlantic Seminar for the History of Biology, April 1, 2000, 36th annual meeting; program of ten speakers co-organized with Gerald Geison. Supported by Princeton's Program in History of Science and Davis Center, with travel money provided by the Dibner Institute

Model Systems, Cases, and Exemplary Narratives, 1999–2001, series of seven Saturday workshops of three-four papers each, for (and funded by) Princeton's Program in History of Science, co-organized with Norton Wise and Elizabeth Lunbeck

Science, Medicine, and Technology in the 20th Century: The Difference Feminism Has Made, October 2–3, 1998, workshop co-organized with Elizabeth Lunbeck and Londa Schiebinger. Supported by NSF grant SBE 98-06230

Gender and Science: New Perspectives, 1995–1996, series of eight lectures for Princeton's Program in Women's Studies