SARAH S. RICHARDSON

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http://scholar.harvard.edu/srichard | http://genderscilab.org

POSITIONS

of Women,
and
Sexuality
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EDUCATION

Stanford University. M.A., Ph.D., Modern Thought and Literature. 2009. Columbia University. B.A., Philosophy. 2002.

FIELDS OF RESEARCH

Gender and science History of the 20th-21st century life sciences Philosophy of science/philosophy of biology

AWARDS, GRANTS, AND FELLOWSHIPS

Robert Wood Johnson Foundation "Pioneering Ideas," 2022-2025.

Walter Channing Cabot Fellow, Harvard University, 2022

Visiting Fellow, Humanities Center, University of Pittsburgh, January 2020.

Dean's Competitive Fund for Promising Scholarship, 2020, 2022, 2023

Fellow, Institute for Advanced Study (Wissenschaftskolleg), Berlin, 2018-2019.

Visiting Fellow, Wesleyan University Center for the Humanities, 2015.

Roslyn Abramson Award for Excellence in Undergraduate Teaching, 2015.

John L. Loeb Associate Professorship, 2014-2018.

William F. Milton Grant, 2014.

Hrdy Fellow, Radcliffe Institute for Advanced Study, 2012-13.

ACLS Fellowship, 2012-13.

Robert Wood Johnson Foundation Seed Grant, 2012.

Philosophy of Science Association Women's Caucus Prize, 2010.

Mellon Foundation Faculty-Student Summer Research Grant, 2010.

ACLS Mellon Dissertation Completion Fellowship (declined), 2008-09.

Mrs. Giles Whiting Dissertation Fellow, Stanford Humanities Center, 2008-09

American Fellow, American Association of University Women, 2008-09. Graduate Dissertation Fellowship, Clayman Institute for Gender Research, Stanford University, 2007-08. Mary Anne Bours Nimmo Graduate Fellowship, Stanford University, 2006-08. Marjorie Lozoff Graduate Essay Prize, 2006.

BOOKS

The Maternal Imprint: The Contested Science of Maternal-Fetal Effects (2021) Chicago: University of Chicago Press. Chinese translation, forthcoming.

Postgenomics: Perspectives on Biology After the Genome. (2015) Ed. Richardson, Sarah S. and Hallam Stevens. Durham: Duke University Press.

Sex Itself: The Search for Male and Female in the Human Genome. (2013) Chicago: University of Chicago Press. Japanese translation, 2019

• Finalist, Marc-Auguste Pictet Prize in the History of Science; *The Guardian* "top 10 science and technology books"

Revisiting Race in a Genomic Age. (2008) Ed. Koenig, Barbara A., Sandra Soo-Jin Lee, and Sarah S. Richardson. New Brunswick, N.J.: Rutgers University Press.

ARTICLES AND BOOK CHAPTERS (**single author; *first author/senior first author)

- *45. "The New Genetics of Sexuality." (Borsa & Miyagi et al.) GLQ: A Journal of Lesbian and Gay Studies. Forthcoming January 2024.
- *44. "A Gender Hypothesis of Sex Disparities in Adverse Drug Events." (Lee et al.) Under review at *Social Science & Medicine*.
- 43. "Adverse drug events by sex in the FDA Adverse Event Reporting System after adjusting for baseline rates of drug use." (Rushovich, Gompers, and Lockhart et al.) *JAMA Network Open.* 6, no. 8 (2023).
- *42. "Women's Health, Inc." (Bruch & Richardson). The Lancet. 401, no. 10384 (2023): 1258-1259.
- *41. "Making a Hallmark Sex-Difference Fact: Ambien Dosing at the Interface of Policy, Regulation, Women's Health, and Sex Difference Science." (Zhao et al.) *Social Studies of Science* 53, no. 4 (2023): 475-494.
- *40. "How Cumulative Statistics Can Mislead: The Temporal Dynamism of Sex Disparities in COVID-19 Mortality in New York State." (Danielsen et al.) *International Journal of Environmental Research and Public Health* 19, no. 21 (2022): 14066.
- **39. "Causal Crypticity." In Routledge Handbook of DOHaD and Society, Forthcoming.
- *38. "Intersectionality as Live Theory and Practice in the Biomedical Sciences." (Shattuck-Heidorn et al.) In *The Routledge Companion to Intersectionality* ed. Nash and Pinto. (2023)
- *37. "Law, Policy, Biology, and Sex: Critical Issues for Researchers." (Sudai et al.) *Science* 376, no. 6595 (2022): 802-804.

- *36. "Why 'Sex as a Biological Variable' Conflicts with Precision Medicine Initiatives." (DiMarco et al.) *Cell Reports Medicine* 3, no. 2 (2022): 100550
- *35. "Sex Disparities in COVID-19 Outcomes in the United States: Quantifying and Contextualizing Variation." (Danielsen, et al.) *Social Science & Medicine* (2022): 114716.
 - Featured in the *New York Times*
- *34. "Are COVID-19 Case Fatality Rates a Reliable Measure of Sex Disparities?" (Gompers et al.) *Women's Health Issues* (2021).
- *33. "Developmental Origins of Health and Disease, Resilience and Social Justice in the COVID Era." (Penkler, et al.) *Journal of Developmental Origins of Health and Disease* (2021): 1–4.
- **32. "Sex Contextualism." *Philosophy, Theory, and Practice in Biology* 14, no. 2 (2022): doi.org/10.3998/ptpbio.2096.
 - Spanish translation: Richardson, Sarah S. "Contextualismo sexual." Análisis Filosófico 42, no. 2 (2022): 387-412.
- *31. "A Finding of Sex Similarities Rather Than Differences In COVID-19 Outcomes." (Shattuck-Heidorn, et al.) *Nature* (2021).
 - Featured in *Haaretz*
- *30. "The Future of Sperm: A Biovariability Framework for Understanding Global Sperm Count Trends." (Boulicault et al., 2021) *Human Fertility*.
 - Featured in the *New York Times* and other venues
- 29. "Sex Disparities in COVID-19 Mortality Vary Across US Racial Groups." (Rushovich et al.) *Journal of General Internal Medicine.* (2021).
- *28. "Socially Relevant Variables In US State COVID-19 Surveillance Reporting: A Report Card." (Boulicault et al.) *Health Affairs Blog*, 2020, July 14.
- 27. "First Authorship Gender Gap in the Geosciences." (Pico et al., 2020) Earth and Space Science 7, no. 8: e2020EA001203.
- *26. "Expansion of Private Equity Involvement in Women's Health Care." (Bruch et al., 2020) *JAMA Internal Medicine* 180, no. 11: 1542–1545.
 - Featured in *Bloomberg News*; companion piece in *STAT*
- *25. "Analyzing COVID-19 Sex Difference Claims: The Harvard GenderSci Lab." (Boulicault & Richardson, 2020) *APA Newsletter on Feminism and Philosophy* 20, no. 1: 3-7.
- *24. "Is There a Gender-Equality Paradox in Science, Technology, Engineering, and Math (STEM)? Commentary on the Study by Stoet and Geary (2018)." (Richardson, et al., 2020) *Psychological Science*: 0956797619872762.
 - Featured widely, including in *Inside Higher Ed* and *Buzzfeed*; companion piece in *Slate*
- *23. "Genome Studies Must Account for History" (Letter to Editor). (Richardson et al., 2019) *Science*: 366, no. 6472: 1461.

- *22. "Time to Cut the Cord: Recognising and Addressing the Imbalance of DOHaD Research Towards the Study of Maternal Pregnancy Exposures." (Sharp et al., 2019) *Journal of Developmental Origins of Health and Disease.*
- *21. "Sex/Gender and the Biosocial Turn." (Shattuck-Heidorn & Richardson, 2019), *The Scholar and Feminist Online*.
- *20. "It's the Mother!: How Assumptions about the Causal Primacy of Maternal Effects Influence Research on the Developmental Origins of Health and Disease." (Sharp, Lawlor & Richardson, 2018) *Social Science and Medicine*.
- 19. "The Biosocial Genome? Interdisciplinary perspectives on environmental epigenetics, health and society." (Müller, et al. 2017) EMBO Reports.
- **18. "Plasticity and Programming: Feminism and the Epigenetic Imaginary." (2017) Signs: Journal of Women in Culture and Society 43 (1): 29-52.
- 17. "Sex in Context: Limitations of Animal Studies for Addressing Human Sex/Gender Neurobehavioral Health Disparities." (Eliot & Richardson, 2016) *Journal of Neuroscience*. 36 (47): 11823-11830.
- *16. "Focus on Preclinical Sex Differences Will Not Address Women's and Men's Health Disparities." (Richardson et al., 2015) *Proceedings of the National Academy of Sciences.* 112 (44): 13419–13420.
 - Featured on NPR "All Things Considered," NPR "Science Friday," and Buzzfeed
- **15. "Maternal Bodies in the Postgenomic Order: Gender and the Explanatory Landscape of Epigenetics." (2015) In *Postgenomics: Perspectives on Biology After the Genome*. Ed. Richardson and Stevens. Durham: Duke University Press, 210-231.
 - Featured on *MSNBC.com*, "The New Science of Blaming Moms," July 16, 2014, and in the American Medical Association Virtual Mentor Ethics Podcast, October, 2014.
- **14. "Is the New NIH Policy Good for Women?" (2015) Catalyst: Feminism, Theory, and Technoscience 1, no. 1.
- **13. "The Trustworthiness Deficit in Postgenomic Research on Human Intelligence." (2015) *The Genetics of Intelligence: Ethics and the Conduct of Trustworthy Research, special report, Hastings Center Report* 45, no. S1 Sept/Oct: S15-S20.
- *12. "Don't Blame the Mothers." (Richardson et al., 2014) Nature. 512: 131-132.
 - Featured widely, including *Genomeweb*, *The Week*, *The New Republic*, *Popular Science*, *NPR*, and *Real Clear Science*
- *11. "Autism as a Biomedical Platform for Sex Difference Research." (2014, coauthored with Eva Gillis-Buck) *BioSocieties* 9 (3): 262-283.
 - Featured in *National Geographic* "Only Human" Blog, "The Sexual Politics of Autism." July 11, 2014.
- **10. "Reductionism." (2014) *Encyclopedia of Bioethics*, Fourth Ed. Macmillan Reference/Cengage Learning.

- 9. "Is Poverty in Our Genes? A Critique of Ashraf and Galor, "the 'out of Africa' Hypothesis, Human Genetic Diversity, and Comparative Economic Development," American Economic Review." (Guedes et al., 2013) *Current Anthropology* 54, no. 1 (2013): 71-79.
- **8. "Sexing the X: How the X Became the 'Female Chromosome'." (2012) Signs: Journal of Women in Culture and Society. 37 (4): 909-933.
 - Anthologized in Wyer et al. (eds) (2013) *Women, Science, and Technology: A Reader in Feminist Science Studies*. 3rd ed. Taylor and Francis, and in *Queer Feminist Science Studies: A Reader* (2017, University of Washington Press)
- **7. "The Genetics of Sex Determination: Rethinking Concepts and Theories." (Richardson, ed., 2012) Peer-reviewed case study for website *Gendered Innovations in Science, Health & Medicine, and Engineering.*
- **6. "Race and IQ in the Postgenomic Age: The Microcephaly Case." (2011) *BioSocieties*. 6 (4): 420-446.
- **5. "Feminist Philosophy of Science: History, Contributions, and Challenges." (2010) *Synthese*. 177 (3): 337-362.
- **4. "Sexes, Species, and Genomes: Why Males and Females Are Not Like Humans and Chimpanzees." (2010) *Biology and Philosophy*. 25 (5): 823-41.
 - Philosophy of Science Association Women's Caucus Prize
- **3. "The Left Vienna Circle, Disciplinary History, and Feminist Philosophy of Science." (2009) Studies in History and Philosophy of Science. 40 (2): 167-174.
- **2. "Carnap, Neurath, and the Left Vienna Circle Thesis. (2009) *Studies in History and Philosophy of Science*." 40 (1): 14-24.
- **1. "When Gender Criticism Becomes Standard Scientific Practice: The Case of Sex Determination Genetics." (2008) In *Gendered Innovations in Science and Engineering*. Ed. Londa Schiebinger. Palo Alto, CA: Stanford University Press, 22-42.
 - Marjorie Lozoff Graduate Essay Prize

SELECTED PUBLIC SCHOLARSHIP

- 12. "Reproduction in the Age of Epigenetics." "Ask a Feminist" Signs: 2022, April 19.
- 11. "The Doomsday Sperm Theory Embraced by the Far Right." Slate, 2021, May 14.
- 10. "The intersection of Black women, COVID, and death rates: The narrative about sex differences and COVID-19 overshadows alarming facts." *The Boston Globe*, 2021, April 5.
- 9. "When private equity firms invest in women's health clinics, who benefits?" STAT, 2020, Sep. 14.
- 8. "What's Really Behind the Gender Gap in Covid-19 Deaths?" The New York Times, June 24, 2020.
- 7. "We Dug Into Data to Disprove a Myth About Women in STEM." Slate, 2020, Feb. 11.

- 6. "Focusing on differences between the sexes is leading medical researchers astray." *The Washington Post.* May 30, 2019.
- 5. "Transphobia, Cloaked in Science." Los Angeles Review of Books. Nov. 11, 2018.
- 4. "The CDC Risks Its Credibility with New Pregnancy Guidelines." *The Boston Globe.* Feb. 8, 2016.
- 3. "Sex and Gender in a Petri Dish." Nursing Clio. Jan. 7, 2016.
- 2. "Egg Freezing Better for Companies Than Women." CNN.com. Oct. 20, 2014.
- 1. "Y All the Hype? A Study About Sexual Similarity Gets Framed as a Major New Finding of Sex Difference." *Slate.com.* May 5, 2014.

BOOK REVIEWS

- 10. "The New Science of Menstruation." *Lancet*. 402 (10395): 16. (2023)
- 9. "Equality as a Work in Progress." Science. 379 (6634): 763. (2023)
- 8. "Intelligent Love: The Story of Clara Park, Her Autistic Daughter, and the Myth of the Refrigerator Mother." *Bulletin of the History of Medicine.* (2021)
- 7. "Infertility: Tracing the History of a Transformative Term." Bulletin of the History of Medicine. (2017)
- 6. "Misbehaving Science: Controversy and the Development of Behavior Genetics. *Journal of the History of the Behavioral Sciences*. 51 (4): 441–442 (2015)
- 5. "From Eve to Evolution." Nature. 509: 424. (2014)
- 4. "Review essay: 'Science, Policy, and the Value-Free Ideal' and 'Philosophy of Science after Feminism." *Feminist Formations*. 24 (2): 199-205. (2012)
- 3. "Review essay: 'The Mirage of a Space between Nature' and Nurture and 'Brain Storm: The Flaws in the Science of Sex Differences." *Signs: Journal of Women in Culture and Society.* 37 (3): 755-760. (2012)
- 2. "Science, Politics, and Evolution." *Hypatia*. 25 (2):455-459. (2010)
- 1. "Figuring it Out: Science, Gender, and Visual Culture." *Visual Resources*. 23 (4): 395-399. (Richardson and Niedzielski-Eichner, 2007)

SELECTED MEDIA

"Change everything: 32 innovators who are building a better future." Wired UK. Dec. 3, 2020.

"The Science of Sex: Historian and philosopher Sarah Richardson interrogates the science of sex and gender." Cover article. *Harvard Magazine*. Nov.-Dec. 2019.

"The Intersection of Gender and Science: An Interview with Sarah Richardson." *Synthesis: An Undergraduate Journal of the History of Science*. Issue 6, May 2015, pp. 37-42.

"Sarah Richardson, Science Philosopher." The SciCom Interviews. April 7, 2015.

"Brevia Talks 'Sex, Gender, and Evolution' with Dr. Sarah Richardson." *Brevia: A Harvard College Undergraduate Research Association Publication*. May, 2014.

"Interview with Sarah Richardson." *Yearbook of Women's History*. Special Issue: Genes and Gender. (2013). University of Amsterdam Press.

"On Darwin and Gender." (2011) The Harvard Gazette.

SELECTED NAMED LECTURES AND KEYNOTES

Drake Lecture. Canadian Society for the History and Philosophy of Science. Montreal, 2024.

Keynote. Interdisciplinary Association for Population Health Sciences, 2023.

Keynote. Columbia University Precision Medicine & Society Conference, 2022.

Keynote. "Re-Thinking the Epigenome," Technical University of Munich, 2022.

Plenary speaker. 5th European conference on Preconception Health & Care, 2022.

Keynote. Vanderbilt's Women's Health Research Symposium, 2022.

Annual Health Law Lecture, Northeastern University School of Law, 2022.

Annual Science and Nature Lecture. Mercantile Library, Cincinnati, 2021.

Wellcome Lecture in the History of Medicine. University of Cambridge, UK. February, 2020.

Klopsteg Lecture. Northwestern University. November, 2019.

Keynote. School for Advanced Studies in the Social Sciences. Paris, France. October, 2018.

Keynote. Gender in Health Care and Research. Inserm. Paris, France. November, 2017.

Russell Lecture. American Psychological Association. Society for the History of Psychology Division. Washington, DC. August, 2017.

Simco Lecture. Department of Philosophy, University of Memphis. April, 2017.

Plenary Speaker. American Physical Society Conference for Undergraduate Women in Physics. Harvard University. January, 2017.

Keynote. Institute for Genome Sciences and Society. Texas A&M University. Fall Symposium: Science and Sex. October, 2016.

Plenary Speaker. The Rosalind Franklin University Symposium on Women in Science and Medicine. September, 2016.

Marian Fox Martel Distinguished Lecture in Gender and Science. Center for the Study of Women, Gender, and Sexuality, Rice University. March, 2016.

Pleanary Speaker. A Critical Moment: Sex/Gender at the Intersection of Culture, Brain, and Behavior. Foundation for Psychocultural Research and UCLA. Los Angeles, CA. October, 2015.

Endowed Lecture: "A Celebration of Life: A Lectureship Honoring Mothers." Magee Women's Research Institute and Department of Obstetrics and Gynecology, University of Pittsburgh. May, 2014.

Keynote. Conference: Genomics and Philosophy of Race. University of California, Santa Cruz. April, 2014.

Keynote. Symposium: Hype in Science. Dalhousie University. December, 2013.

Marshall Lecture on Public Philosophy, Canadian Centre for Ethics in Public Affairs. September, 2013.

Class of 1952 Lecture. University of New Hampshire. Department of Philosophy. September, 2012.

Keynote. International Association of Women Philosophers. London, Ontario. June, 2010.

TEACHING

Undergraduate

HISTSCI 130. Heredity and Reproduction
Culture and Belief 61. Gender and Science: From Marie Curie to Gamergate
HISTSCI 139. The Postgenomic Moment
SWGS 98. Junior Tutorial
SWGS 1300. Feminist Research Methods
HISTSCI 138. Sex, Gender, and Evolution
SWGS 1421. Medical Management of the Female Body

Graduate

SWGS/GSGE 2010. Science, Nature, and Gender HISTSCI 237. Postgenomics HISTSCI 251. Feminist Science Studies WOMGEN 2000. Graduate Proseminar

EVENTS ORGANIZED

"Sex in Context: Rethinking Sex as a Biological Variable from Research to Policy." Radcliffe Institute. March, 2023.

"Biological Sex Essentialism in Law and Public Policy." Workshop, Harvard University, Spring 2021.

"Sex/Gender: Theory into Practice." A seminar series examining the constructs of "sex" and "gender" in biological and health science research. Mahindra Humanities Center, Harvard University. 2017-2018.

"The Maternal Imprint." A speaker series and colloquium on the historical, social, and gender dimensions of maternal-fetal science. Mahindra Humanities Center, Harvard University. 2013-2014.

"Sexuality Studies at Harvard." A workshop on the state of the field of sexuality studies. Co-organizer. Radcliffe Institute. October, 2013.

"Beyond the Genome." International social science conference on postgenomics. Nanyang Technological University, Singapore. January, 2013.

"Gendered Innovations in Science, Medicine, and Engineering." National Science Foundation/European Union-sponsored international workshop to develop scientific training modules to promote sound sex difference research. Harvard University. July, 2012.

"Are Men and Women Like Different Species? Critical Perspectives on Sex-Difference Research." One-day conference organized for the Boston Colloquium for Philosophy of Science. Boston University. April, 2012.

"The Feminist Classroom." Conference and workshop for graduate students developing a professional teaching profile in women's, gender, and sexuality studies. Harvard University. March 30, 2012.

HARVARD SERVICE

Department of the History of Science:
Executive Committee, 2010-Present
Committee on Higher Degrees, 2013-2014 and 2014-2015
Prize Committee, 2014-2015
Visiting Researchers Committee, 2013-2014, 2017-2018, 2019-2020
Graduate Admissions Committee, 2010-2011, 2011-2012
Graduate Fellowships Committee, 2011-2012

Committee on Studies of Women, Gender, and Sexuality: Executive Committee, 2010-Present Curriculum Committee, 2013-2014, 2017-2018 Prize Committee, 2012, 2015

Harvard:

Regan Fund Committee, 2017-2018

Advisory Board, Harvard Public Health Review: A Student Journal

Faculty Advisor, Harvard PERIOD Project, 2017-2018

Faculty Advisor, Harvard Gender Inclusivity in Mathematics, 2015-

Faculty Mentor, Harvard Women in Science and Engineering, 2017-

Faculty Affiliate, Program on Science, Technology, and Society, Harvard Kennedy School, 2017-

Standing Committee on Information Technology, 2016-present

Selection Committee for Mahindra Humanities Center postdoctoral fellows, 2015-2016

Faculty Co-Coordinator, Graduate Workshop in Interdisciplinary Gender and Sexuality Studies, 2014-2015, Spring 2017

Alex G. Booth Fund Fellowships Committee, 2014, 2018, 2019

Hoopes Prize Committee, 2011 & 2014

Executive Committee, Office of Sexual Assault Prevention and Response, 2013-2014

Standing Committee, Mind, Brain, and Behavior Interfaculty Initiative, 2013-Planning Committee, Radcliffe Sexuality Studies Initiative, 2013 Faculty Advisor, Harvard Science Club for Girls, 2011-2014

MEMBERSHIPS

American Association for the Advancment of Science
American Association for the History of Medicine
History of Science Society
International Society for the History, Philosophy, and Social Studies of Biology
National Women's Studies Association
Philosophy of Science Association
Society for the Social Studies of Science

SERVICE TO THE PROFESSION

Editorial Board, Bulletin of the History of Medicine, 2020-2023

Governing Council, International Society for the History, Philosophy, and Social Studies of Biology, 2016-2019

Associate Editor, Signs: Journal of Women in Culture and Society (2015-)

Advisory Board, Catalyst: Feminism, Theory, Technoscience (2015-)

Board Member, Graduate Consortium in Women's Studies (2011-2012, 2013-2015)

Referee for journals & publishers:

Australian Feminist Studies

BioSocieties

Bulletin of the History of Medicine

Catalyst: Feminism, Theory, Technoscience

Foundations of Science

Frontiers: A Journal of Women's Studies

Frontiers in Neuroscience

Historical Studies in the Natural Sciences

HOPOS: The Journal of the International Society for the History of Philosophy of Science

Hypatıa

International Journal of Feminist Approaches to Bioethics

Journal of Medical Humanities

Journal of the History of Biology

Journal of Sex Research

The Lancet

New Genetics and Society

Palgrave Macmillan

Psychological Sciences

Science Advances

Science, Technology, and Human Values

Signs: Journal of Women in Culture and Society

Social Studies of Science

Studies in History and Philosophy of Biological and Biomedical Sciences

Studies in History and Philosophy of Science

University of Chicago Press

Women's Health Issues

Referee for granting agencies and fellowships:
National Science Foundation Science, Technology, and Society Program
Radcliffe Institute for Advanced Study
U.S.-Israel Binational Science Foundation
Radcliffe Institute for Advanced Study
Robert Wood Johnson Foundation

OTHER PROFESSIONAL ACTIVITIES

Scientific Advisory Committee. Gender and Health Inequities Project. Inserm/Paris School of Economics/CNRS. 2023-

National Judges Panel for Nominees in the Sciences, National Women's Hall of Fame, 2012-.

Advisory Committee, "Gendered Innovations in Science and Engineering," an NSF/EU-funded research initiative, 2009-.