

SARAH S. RICHARDSON

Department of the History of Science
Committee on Degrees in Studies of Women, Gender, and Sexuality
Harvard University

POSITIONS

2014-present	John L. Loeb Associate Professor of the Social Sciences <i>Harvard University</i>
2010-2014	Assistant Professor <i>Harvard University</i>
2009-2010	Five College Assistant Professor of Feminist Science Studies <i>University of Massachusetts, Amherst</i>

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 20th and 21st-century genetics
Philosophy of science/philosophy of biology

AWARDS, GRANTS, AND FELLOWSHIPS

Visiting Fellow, Wesleyan University Center for the Humanities, 2015-16.
Roslyn Abramson Award for Excellence in Undergraduate Teaching, 2015.
William F. Milton Grant, 2014.
Hrды 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 Mystique (a history of the science of prenatal maternal effects, in progress)

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

- Finalist, Marc-Auguste Pictet Prize in the History of Science
- Paperback edition, fall 2015
- Reviewed in *Science*, *Quarterly Review of Biology*, *Hypatia*, *Journal of the History of Biology*, *Women's Review of Books*, *Canadian Journal of History*; featured in radio, electronic, and print media, including: 24 interviews on local, regional, and national public radio; *Los Angeles Review of Books*, *New Statesman*, *Vox*, *Big Think*, *io9*, *Hairpin*, and *Feministing* blogs; *The Guardian* "top 10 science and technology books," November, 2013

EDITED VOLUMES

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

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.

PEER REVIEWED ARTICLES AND BOOK CHAPTERS

Maternal Bodies in the Postgenomic Order: Gender and the Explanatory Landscape of Epigenetics. (2015) In *Postgenomics: Perspectives on Biology After the Genome.* Duke University Press.

- 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.

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.

Sexing the X: How the X became the 'Female Chromosome'. (2012) *Signs*. 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.

Race and IQ in the Postgenomic Age: The Microcephaly Case. (2011) *BioSocieties*. 6 (4): 420-446.

Feminist Philosophy of Science: History, Contributions, and Challenges. (2010) *Synthese*. 177 (3): 337-362.

Sexes, Species, and Genomes: Why Males and Females Are Not Like Humans and Chimpanzees. (2010) *Biology and Philosophy*. 25 (5): 823-41.

- 2010 Philosophy of Science Association Women's Caucus Prize

The Left Vienna Circle, Disciplinary History, and Feminist Philosophy of Science. (2009) *Studies in History and Philosophy of Science*. 40 (2): 167-174.

Carnap, Neurath, and the Left Vienna Circle Thesis. (2009) *Studies in History and Philosophy of Science*. 40 (1): 14-24.

When Gender Criticism Becomes Standard Scientific Practice: The Case of Sex Determination Genetics. (2008) In *Gendered Innovations in Science and Engineering*, edited by Londa Schiebinger, 22-42. Palo Alto, CA: Stanford University Press.

- 2006 Marjorie Lozoff Graduate Essay Prize

COMMENTARIES

Focus on preclinical sex differences will not address women's and men's health disparities. (Richardson et al., Forthcoming 2015) *Proceedings of the National Academy of Sciences*.

Is the new NIH policy good for women? (Forthcoming 2015) *Catalyst: Feminism, Theory, and Technoscience*.

Trustworthiness and Genomic Research on Intelligence. (Forthcoming 2015) *Hastings Center Report*.

Don't Blame the Mothers. (Richardson et al., 2014) *Nature*.

Egg Freezing Better for Companies Than Women. *CNN.com*. Oct. 20, 2014.

Y All the Hype? A study about sexual similarity gets framed as a major new finding of sex difference. *Slate*. May 5, 2014.

REFERENCE WORKS

Reductionism. (2014) *Encyclopedia of Bioethics*, Fourth Ed. Macmillan Reference/Cengage Learning.

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*.

BOOK REVIEWS

Misbehaving Science: Controversy and the Development of Behavior Genetics. *Journal of the History of the Behavioral Sciences*. (Forthcoming 2015)

From Eve to Evolution. *Nature* 509: 424. (2014)

Review essay: Science, Policy, and the Value-Free Ideal and Philosophy of Science after Feminism. *Feminist Formations* 24 (2): 199-205. (2012)

Review essay: The Mirage of a Space Between Nature and Nurture and Brainstorms: The Flaws in the Science of Sex Differences. *Signs*. (2012)

Science, Politics, and Evolution. *Hypatia* 25 (2):455-459. (2010)

Figuring it Out: Science, Gender, and Visual Culture. Visual Resources 23 (4): 395-399. (co-authored with Nora Niedzielski-Eichner, 2007)

SELECTED MEDIA

“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.

“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*.

INVITED TALKS (since 2010; keynote/named lectureships bolded)

“TBA.” **Keynote Speaker**. 35th Annual Spindel Conference. Department of Philosophy, University of Memphis. September, 2016.

“TBA.” Pennsylvania State University Institute for the Arts and Humanities. “The Boundaries of the Human in the Age of the Life Sciences.” April, 2016.

“TBA.” Texas A&M University. Institute for Genome Sciences and Society. “Genome Pioneer” Series. March 21, 2016.

“The Maternal Mystique: Gender and Science at the Maternal-Fetal Interface.” **Marian Fox Martel Distinguished Lecture**. Center for the Study of Women, Gender, and Sexuality, Rice University. March 24, 2016.

“Sex, Gender, and the Human Genome.” Penn Humanities Forum. University of Pennsylvania. October 28, 2015.

“Against Superstition: The Science of Prenatal Influences in the Eugenic Era.” University of Pennsylvania. Department of History and Sociology of Science. October 26, 2015.

“Conceptualizing Sex Differences in the Human Genome.” A Critical Moment: Sex/Gender at the Intersection of Culture, Brain, and Behavior. Foundation for Psychocultural Research and UCLA. Los Angeles, CA. October 23–24, 2015.

“Sex, Gender, and Epigenetics: What Does Epigenetics Explain?” Brocher Foundation Workshop on Environmental Epigenetics. May 4-6, 2015. Switzerland.

“Gender and Science at the Interface of Mother and Fetus.” Center for Values in Medicine, Science & Technology. University of Texas at Dallas. April 8-9, 2015.

“Gender and Epigenetics.” Series: Futuristic Fiction: Women in Science and Science Fiction. University of Texas at Arlington. March 6, 2015.

“Messages to Women about Epigenetics and Childhood Obesity.” Conference: Examining a Developmental Approach to Childhood Obesity: The Fetal and Early Childhood Years. Institute of Medicine/National Academies of Science. Washington, DC. February 27-7, 2015.

“Gender and Epigenetics: Control, Intervention, and Agency at the Maternal-Fetal Nexus.” University of Utah Humanities Center & Department of Philosophy. January 21, 2015.

“Epigenetics and the Maternal Body: Ethical and Social Dimensions.” Center for Research on Ethical, Legal & Social Implications of Psychiatric, Neurologic & Behavioral Genetics. Columbia University College of Physicians & Surgeons. November 19, 2014.

“Sex Itself: The Search for Male and Female in the Human Genome.” Series: Embodiments of Science. Institute for Research on Women, Gender, and Sexuality. Columbia University. November 19, 2014.

“What would a ‘transformative conversation’ about the genetics of g look like?” Responsible Conduct of Research on the Genetics of Intelligence Workshop. The Hastings Center. November 6-7, 2014.

“How Culture Influences Choices by Genetic Researchers.” Genetics and Society Symposium. North Carolina State University. September 19, 2014.

“Gender and Epigenetics: Control, Intervention, and Agency at the Maternal-Fetal Nexus.” **Endowed Lecture: “A Celebration of Life: A Lectureship Honoring Mothers.”** Magee Womens Research Institute and Department of Obstetrics and Gynecology, University of Pittsburgh. May 30, 2014.

“Gender and the Human Genome.” Symposium: Feminism, Feminist Theory, and Science: Where We’ve Been and Where We are Going. Brown University. May 2, 2014.

“Race in the Postgenomic Moment.” **Keynote Speaker.** Conference: Genomics and Philosophy of Race. University of California, Santa Cruz. April 12-13, 2014.

“The Maternal Imprint: Gender and the Science of Epigenetics.” Science Studies Symposium. University of Oslo. March, 2014.

“Race and IQ in the Postgenomic Era.” Symposium: Hype in Science. Dalhousie University. December, 2013.

“Gender Bias in Science.” Department of Philosophy, St. Mary’s University. September, 2013.

“Gender, Science, and Social Values: The Search for Sex Differences in the Human Genome.” **Marshall Lecture on Public Philosophy, Canadian Centre for Ethics in Public Affairs.** September, 2013.

“Knowledge Politics and Ethics of Evolutionary Theories of Gender.” Conference: Sexual Selection Studies. National Evolutionary Synthesis Center. July, 2013.

“Sex Itself: Conceptualizing Sex Differences in the Human Genome.” Symposium: Feminism and Evolutionary Biology. Denison College. March, 2013.

“Epigenetics and Maternal Bodies in the Postgenomic Order.” Rutgers University, Newark. Women, Gender, and Sexuality Studies Annual Symposium. March, 2013.

“Race and Gender in a Postgenomic Age.” European Molecular Biology Laboratory (EMBL) Forum on Science and Society. Heidelberg, Germany. October, 2012.

“The Social Imprint: Epigenetics and Maternal Bodies in the Postgenomic Order.” **Class of 1952 Lecture.** University of New Hampshire. Department of Philosophy. September, 2012.

“Sex Itself: Conceptualizing Sex Differences in the Human Genome.” SUNY-Oswego’s “Science Today” Series. May, 2012.

“Sex Itself: Conceptualizing Sex Differences in the Human Genome.” Cornell University. April 2012.

“Conceptualizing Sex Differences in the Human Genome.” Boston Colloquium for Philosophy and History of Science. April, 2012.

“Sex Itself: Conceptualizing Sex Differences in the Human Genome.” Stanford University. February, 2012.

“Engaging Science: Analyzing the Emerging Conception of Genomic Sex Differences.” American Philosophical Association Pacific Division. San Diego, CA. April, 2011.

“Race and IQ in a Genomic Age.” Boston Colloquium for Philosophy and History of Science. November, 2010.

“Gendering the Genome: The Emerging Concept of Sex Differences in Human Genome Research.” Middlebury College. October, 2010.

“Race and IQ in a Genomic Age.” **Keynote Speaker.** International Association of Women Philosophers. London, Ontario. June, 2010.

“Women, chromosomes, and chimpanzees: Gender in contemporary genomics.” Rutgers University. Women’s and Gender Studies Program. March, 2010.

“Women, chromosomes, and chimpanzees: Gender in contemporary genomics.” Rensselaer Polytechnic Institute. Science and Technology Studies Program. March, 2010.

JURIED CONFERENCE PAPERS (last 5 years)

“Intergenerationality: Conceptions of time in non-genetic theories of intergenerational inheritance.” History of Science Society. San Francisco, CA. November, 2015.

“Sex, Gender, and the Epigenetic Imaginary.” International Society for the History, Philosophy, and Social Studies of Biology. Montreal. July, 2015.

“Maternal Bodies and the Explanatory Landscape of Epigenetics.” American Association for the Advancement of Science (AAAS). San Jose, CA. February, 2015.

“The Concept of Gender Bias in Scientific Research.” Philosophy of Science Association. Chicago. November, 2014.

“Maternal Effects and the Twentieth Century Sciences of Heredity.” International Society for the History, Philosophy, and Social Studies of Biology. Montpellier, France. July, 2013.

“Constructing the Womb as Social Environment.” History of Science Society. San Diego, CA. November, 2012.

“What is Postgenomics?” Society for the Social Studies of Science. Cincinnati, Ohio. November, 2011.

“What is Postgenomics?” International Society for the History, Philosophy, and Social Studies of Biology. Salt Lake City, Utah. July, 2011.

SELECTED TALKS AND PRESENTATIONS AT HARVARD

“The Maternal Mystique: Knowing and Unknowing the Maternal-Fetal Interface.” Department of the History of Science. December, 2013.

“Can I be a feminist and a scientist?” Committee on Degrees in Studies of Women, Gender, and Sexuality “Lunches with Smart People.” October, 2013.

Discussion facilitator, “Freshman Conversations.” Led 32 incoming first year students in a discussion of racial, ethnic, gender, sexuality, and class diversity at Harvard. August, 2013.

“Balancing Teaching and Research.” Panelist at the New Faculty Institute. August, 2013.

“The Maternal Imprint.” Radcliffe Institute for Advanced Study. March, 2013.

“Distinguished Speaker Seminar.” Harvard University Behavioral Laboratory in the Social Sciences. June, 2012.

“Thinking Critically about Sex Difference Research.” Presentation to proseminar for the Program in Women, Gender, and Health. Harvard School of Public Health. September, 2011; October, 2013; October, 2014.

“Teaching Feminist Methods.” Brownbag Lunch Series Presentation. Committee for the Study of Women, Gender, and Sexuality. April, 2011.

“Gender and Epigenetics: Public Health Implications.” Harvard School of Public Health. February, 2011.

“Gender and Genetics.” Presentation for the Harvard Women’s Leadership Project. December, 2010.

“Gendering the Genome: The Emerging Concept of Sex Differences in Human Genome Research.” Harvard Humanities Center. November, 2010.

OTHER RECENT PRESENTATIONS

Author-Meets-Critic session on *Postgenomics*. International Society for the History, Philosophy, and Social Studies of Biology. Montreal. July, 2015.

Featured speaker, Conference on Interdisciplinarity in the Disciplinary University. Program in Modern Thought and Literature. Stanford University. April 10, 2015.

“Understanding Gender Bias in Scientific Research.” Workshop on Gender and Philosophy. MIT. October 9, 2014.

Author-Meets-Critics session on *Sex Itself*. FEMMSS Conference. Waterloo, Ontario. August, 2014.

Discussant, Panels on “Genetics and human difference: from the 'gene-for' approach to...” and “New forms of expertise and the new understanding of human difference in autism research and care.” Society for the Social Studies of Science. Copenhagen, Denmark. October, 2012.

Featured speaker at a post-show Scholar Social for “Photograph 51,” a play about the life of Rosalind Franklin at the Central Square Theater. Cambridge, MA. February, 2012.

Critic, Author-Meets-Critics Session on Gil Eyal et al., *The Autism Matrix*. Social Science History Association. Boston. November, 2011.

Chair. “Trans Formations: New Directions in Historical Research.” American Historical Association. Boston. January, 2011.

Panel Chair and Commentator. “Gendering the Human Brain: Science, Language, and Sex Difference in the 19th and 20th Centuries.” History of Science Society. Montreal, November 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

EVENTS ORGANIZED

“The Maternal Imprint.” A fall speaker series and spring 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. Coorganizer. Radcliffe Institute. October, 2013.

“Beyond the Genome.” Co-organizer. International social science conference on postgenomics. Nanyang Technological University, Singapore. January, 2013.

“Gendered Innovations in Science, Medicine, and Engineering.” A National Science Foundation/European Union-sponsored international workshop to develop scientific training modules to promote sound sex difference research. Harvard University. July 19-20, 2012.

“Are Men and Women Like Different Species? Critical Perspectives on Sex-Difference Research.” A one-day colloquium organized for the Boston Colloquium for Philosophy of Science. Boston University. April 27, 2012.

“The Feminist Classroom.” A conference and workshop for graduate students developing a professional teaching profile in women’s, gender, and sexuality studies. Cosponsored by the Graduate Consortium in Women’s 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

Graduate Admissions Committee, 2010-2011 and 2011-2012

Graduate Fellowships Committee, 2011-2012

Committee on Studies of Women, Gender, and Sexuality:

Executive Committee, 2010-Present

Curriculum Committee, 2013-2014

Prize Committee, 2012, 2015

Hiring Committee for Professor of Practice in the Natural Sciences, 2011-2012

Harvard:

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

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

Alex G. Booth Fund Fellowships Committee, 2014

Hoopes Prize Committee, 2011 & 2014

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

Standing Committee, Mind, Brain, and Behavior Interfaculty Initiative, 2013-2014, 2014-2015

Planning Committee, Radcliffe Sexuality Studies Initiative, 2013

Faculty Advisor, Harvard Science Club for Girls, 2011-2014

Faculty Advisor, Harvard Gender Inclusivity in Mathematics, 2015-

STUDENTS ADVISED (* principal advisor)

Undergraduate Senior Honors Theses:
Katherine Ericksen* (Rothschild Prize)
Eva Gillis-Buck* (Hoopes Prize)
Amanda Villani* (Gates Prize)
Susannah Savage* (Gates Prize)

Masters:
Sandra Korn*

PhD Orals Fields:
Leena Ahktar
Katherine Baca
Cara Kiernan Fallon
Maayan Sudai

Graduate Student First Year Advising:
Kathryn Heintzman
Wythe Marschall

PhD Dissertation Committees (with date of completion if applicable):
Leena Ahktar
Katherine Baca
Lisa Haushofer
Nancy Hutton (2015)
Miranda Mollendorf (2013)
Miriam Rich
Myrna Perez Sheldon (2014)
Jenna Tonn (2015)

MEMBERSHIPS

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

Governing Council, International Society for the History, Philosophy, and Social Studies of Biology,
2015-2018
Associate Editor, *Signs: Journal of Women in Culture and Society* (2015-)
Advisory Board, *Catalyst: Feminism, Theory, Technoscience* Journal (2015-)
Board Member, Graduate Consortium in Women's Studies (2011-2012, 2013-2015)

Referee for journals:
BioSocieties

Bulletin of the History of Medicine
Foundations of Science
Frontiers: A Journal of Women's Studies
International Journal of Feminist Approaches to Bioethics
Historical Studies in the Natural Sciences
HOPOS: The Journal of the International Society for the History of Philosophy of Science
Hypatia
Journal of the History of Biology
New Genetics and Society
Science, Technology, and Human Values
Signs: Journal of Women in Culture and Society
Social Studies of Science
Studies in History and Philosophy of Science
Studies in History and Philosophy of Biological and Biomedical Sciences

Referee for granting agencies:

National Science Foundation Science, Technology, and Society Program
U.S.-Israel Binational Science Foundation

OTHER PROFESSIONAL ACTIVITIES

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

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