

Stephanie Dick

Society of Fellows
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Academic Positions

- 2017- **Department of History and Sociology of Science, University of Pennsylvania**
Assistant Professor
- 2014-17 **Society of Fellows, Harvard University**
Junior Fellow

Education

- 2015 **Harvard University**
PhD in History of Science
Dissertation: *After Math: (Re)configuring Minds, Proof, and Computing in the Postwar United States*
- 2013 **University of Chicago**
Exchange Scholar with the Committee on Conceptual and Historical Studies of Science
- 2008 **The University of Toronto**
MA in History and Philosophy of Science and Technology
- 2007 **The University of King's College and Dalhousie University**
BA First Class Combined Honours, Departments of History of Science and Technology and Philosophy

Honors and Awards

- 2012-15 Alan Turing Centenary Fellowship in the *Turing Centenary Research Project: Mind Mechanism and Mathematics*. John Templeton Foundation.
- 2013 Harvard Horizons Scholar. *Graduate School of Arts and Sciences, Harvard University*.
- 2012 Term-Time Dissertation Research Grant. *Charles Warren Center for Studies in American History* (declined).
- 2012-14 Science, Technology, Society (STS) Doctoral Dissertation Research Improvement Grant. *National Science Foundation*.
- 2008-12 Doctoral Fellowship. *Social Sciences and Humanities Research Council of Canada*.
- 2008-09 Ontario Graduate Scholarship (declined).

- 2007-08 Graduate Fellowship and Graduate Admission Award. *University of Toronto Arts and Sciences*.
- 2007 King's University Medal for Honours Thesis in History of Science and Technology.
- 2002-07 King's University Entrance Scholarship, Frank Sobey Scholarship, King's University Scholarship.

Publications

Research Publications

- 2015 "Of Models and Machines: Implementing Bounded Rationality" in *Isis* Vol. 106, No. 3 (September 2015): 623 - 624.
- 2015 "Computer Science" in *A Companion to the History of American Science* (Wiley-Blackwell Publishing, forthcoming, May 2015).
- 2013 "Machines Who Write" in *IEEE Annals of the History of Computing* Vol. 35, No. 2 (April-June 2013): 85-87.
- 2011 "AfterMath: The Work of Proof in the Age of Human-Machine Collaboration" in *Isis* Vol. 102, No. 3 (September 2011): 494-505.
- 2011 "Michel Coignet; Simple Theodolite and Plane Table Rule" in *Prints and the Pursuit of Knowledge in Early Modern Europe*, ed. Susan Dackerman (New Haven: Yale University Press): 354.
- 2006 "Ultimate Proportions" in *Tooth and Claw* Vol. 4 (April 2006): 60 - 80.
- 2005 "Mathematics: The Possibilities of the Principle" in *Tooth and Claw* Vol. 3 (April 2005): 57 - 73.

Book Reviews

- 2013 *Coming of Age with Quantum Information: Notes on a Paulian Idea* by Christopher A. Fuchs (Cambridge University Press, 2011) in *Isis* Vol. 104, No. 3 (September 2013): 646-647.
- 2013 *Pioneer of the Information Age* by B. Jack Copeland (Oxford University Press, 2013) in *Endeavor* Vol. 37, No. 4 (December 2013): 195 - 195.

Academic Presentations

Invited Talks

- 2016 "Reformalism." University of California, Irvine Department of English, Research Cluster on "Form." Irvine, CA.

- 2015 "Putting Mathematics into the Computer: Implementation and Epistemology in Early Automated Logic." *15th Congress of Logic, Methodology and Philosophy of Science*. Helsinki, Finland.
- 2015 "That is not Why." *history of data/data in history*. Columbia University Center for Science and Society. New York, NY.
- 2015 "More Powerful Principles: Exploring the Early Automation of Proof." *Mistakes Were Made: History of Computing, Decompiled*. The Intel Science and Technology Center for Social Computing, New York University. New York, NY.
- 2015 "After Math: Following Mathematics into the Digital." *Microsoft Research New England Colloquium Series*. Cambridge, MA.
- 2015 "The Future of Thinking: Computers and Minds in Mid-Twentieth Century Imaginations." Princeton Workshop in the History of Science. Princeton, NJ.
- 2015 "Constructing a Mathematical Laboratory": An Early History of Computer Algebra Systems. *Joint Meeting of the American Mathematical Society and the Mathematics Association of America*. San Antonio, TX.
- 2014 "After Math: Following Mathematics into the Digital." *Philadelphia Area Seminar on History of Mathematics*. Philadelphia, PA.
- 2014 "(Re)configuring Minds, Proof, and Computing in the Postwar United States." *2014 Turing Centenary Research Project Workshop*. New York, NY.
- 2014 "The Agency of Servers: Humans and Nonhumans in the Pirate Bay Trial." *Scientific Orthodoxy*. Mahindra Humanities Center, Harvard University. Cambridge, MA.
- 2014 "The Media of Scholarship" with Peter Galison. *GSAS Alumni Symposium*. Harvard University. Cambridge, MA.
- 2014 "Aftermath: Following Mathematics into the Digital." MIT Program in Science, Technology, and Society, *Special Seminar*. Massachusetts Institute of Technology. Cambridge, MA.
- 2013 "Programming Proof: Introducing Computers to the Work of Mathematics." *Explorers and Pirates: Digital creators and the creation of value(s)*. The European University at Saint Petersburg. Saint Petersburg, Russia.
- 2013 "Reproving *Principia*: Automated Theorem Proving and the Materials of Mathematics." *American Mathematical Society Eastern Section Meeting*. Philadelphia, PA.
- 2013 "Reformalism: automated theorem proving and the materials of mathematics." *International Congress of History of Science, Technology and Medicine*. Manchester, UK.
- 2013 "Aftermath: Historical Explorations of Early Automated Reasoning." *2013 Turing Centenary Research Project Workshop*. Milan, Italy.
- 2013 "Displacing the Hand: Translating Proof into Computation." *Mathematics, Philosophy, and Literature*. Mahindra Humanities Center, Harvard University. Cambridge, MA.

- 2013 “Coded Collaboration: Doing Mathematics with Computers in the Second Half of the Twentieth Century.” Harvard Kennedy School *STS Circle*.
- 2013 “Following Mathematics into the Digital: Early Automated Theorem-Proving in the United States.” *Fishbein Workshop in the History and Philosophy of Science*, University of Chicago.
- 2012 “Designing Intuition: Computing and Mathematical Proof.” *Joint Meeting of the American Mathematical Society and the Mathematics Association of America*. Boston, MA.

Conference Presentations

- 2015 “Encoding and Intervening.” *History of Science Society Annual Meeting*. San Francisco, CA.
- 2015 “Implementation and Epistemology in Early Computer Mathematics.” *British Society for the History of Science Annual Conference*. Swansea, Wales.
- 2015 “Programming Proof.” *American Historical Association Annual Meeting*. New York, NY.
- 2014 “Mathematical Objects in Action: Proof in the Time of Computation.” *The Digital Subject: Temporalities*. Paris, France.
- 2014 “Looking for Limits: Configuring Minds, Mathematics, and Machines in the Mid-Twentieth Century” in *Bounded Rationalities*, Plenary Session at the *History of Science Society Annual Meeting*. Chicago, IL.
- 2013 “‘Mathematical Objects in Action’: Ontological Entanglements of Mathematics and Computing.” *History of Science Society Annual Meeting*. Boston, MA.
- 2013 “Following Mathematics into the Digital: Historical Explorations of Early Automated Theorem Proving.” *Computability in Europe (CiE)*. Milan, Italy.
- 2013 “Rewriting *Principia Mathematica* into the Digital: Automated Theorem Proving and the Media of Mathematics.” *Harvard-Yale Graduate Conference in Book History*. Cambridge, MA.
- 2012 “‘Buying Originality’: two approaches to the automation of logical proof.” *Society for the History of Technology Annual Meeting*. Copenhagen, Denmark.
- 2011 “The Geometer in the Machine: Diagrammatic Heuristics and Early Artificial Intelligence.” *History of Science Society Annual Meeting*, in the Official Sponsored Session of the *Forum for the History of the Mathematical Sciences*. Cleveland, OH.

Teaching

Courses

- 2014 Graduate Seminar, *Computing People*. Program in STS, European University at Saint Petersburg.

Guest Lectures

- 2014 “Computer Proof” for Slava Gerovitch, *Cultural History of Mathematics*. Massachusetts Institute of Technology.
- 2012 “Computing, Cognition, and Artificial Intelligence” for Prof. Sophia Roosth, *Science Facts and Science Fictions*. Harvard University.
- 2011/14 “Computing and Proof” for Prof. Stefan Helmreich, *Cultures of Computing*. Massachusetts Institute of Technology.
- 2010 “The Mainframe” for Prof. Hallam Stevens, *Nanocultures*. Harvard University.

Harvard University Senior Thesis Advisor

- 2011-12 Betsy Isaacson: *The Saint of Cyborgs: Saint Jude, Mondo 2000, And The Making of A Hacker Nation*
- 2011-12 Angela Liu: *Bioethics in Government Commissions: History, Function and Discourse*
- 2010-11 Grace Kim: *(Re)producing Art: Images And History in Art Conservation and Neuroaesthetics*

Harvard University Teaching Fellow

- 2012 *Tutorial - Sophomore Year (HistSci 97)*. Prof. Anne Harrington. Spring. Received Harvard University Certificate of Distinction in Teaching
- 2011 *Knowing the World (HistSci 100)*. Prof. Adelheid Voskuhl. Fall.
- 2011 *The Einstein Revolution (Sciences of the Physical Universe 17)*. Prof. Peter Galison. Spring.

University of Toronto Teaching Assistant

- 2007 *History of Science (HPS 280 for students in Applied Sciences and Engineering)*. Physics. Prof. Victor Boantza. Fall.

Dalhousie University Grader

- 2007 *Understanding Scientific Reasoning (Phil 2660)*. John Davie. Summer.
- 2007 *Introduction to Philosophy (Phil 1010)*. Prof. Michael Hymers. Spring

Museum Experience**Exploratorium**

- 2014 Exploratorium and Harvard Department of History of Science Collaborative Workshop. Aimed at cross-fertilization of DHS and Exploratorium cultures and prototyping of historical and interactive exhibits.

Collection of Historical Scientific Instruments, Harvard University

- 2012 Writer, Director. Original stage play, *Go Ask A.L.I.C.E.: Exploratory Vignettes* performed by American Repertory Theater actors in the exhibit “Go Ask A.L.I.C.E.: Turing Tests, Parlor Games, & Chatterbots.”
- 2011-12 Wheatland Curatorial Fellow. Co-curator, “Go Ask A.L.I.C.E.: Turing Tests, Parlor Games, & Chatterbots.”
- 2010 Student Curator. “Paper Worlds: Printing Knowledge in Early Modern Europe.” Curated by students of History of Science Seminar 215r: *Science & Culture in Late Medieval & Early Modern Europe*.
- 2009-12 Cataloguer. ~500 objects related to mathematics, navigation, calculation, and computing.

Professional Service

Harvard University

- 2013 Ad hoc referee, *IEEE Annals of the History of Computing*.
- 2013 Panel Organizer: *Historical Ontologies*. *History of Science Society Annual Meeting*. Boston, MA.
- 2013 Compiled and directed original stage play, *The Greatest Witness: A Theatrical Exploration of Galileo’s “Solar Spots.”* Performed at the conference *Heavenly Imperfection: Galileo’s Discovery of Sunspots*. Harvard University, Cambridge, MA.
- 2013 Compiled and directed original stage play, *Mathematical Patterns*. Performed at the workshop *Mathematics, Philosophy, and Literature*, Mahindra Humanities Center, Harvard University.
- 2012 Panel Organizer: *Made in Automation*. *Society for the History of Technology Annual Meeting*. Copenhagen, Denmark.
- 2011-12 Co-Organizer of the Modern Sciences Working Group.
- 2011 Organizer of Phunday workshop in the history of the physical sciences.

University of Toronto

- 2008 Research Assistant to Prof. Gila Hanna, The Ontario Institute for Studies in Education.

University of King’s College

- 2006-07 Research Assistant to Prof. Ian Stewart, History of Science and Technology Program.
- 2005-06 President of the History of Science and Technology Society.

References

Professor Peter Galison (dissertation advisor, general exam field supervisor)

Joseph Pellegrino University Professor
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Jean-Francois Gauvin (supervisor at Collection of Historical Scientific Instruments)

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