

Sherrilyn Roush

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Employment

King's College London

Peter Sowerby Chair in Philosophy and Medicine, 2014-

U.C., Berkeley

Professor, Department of Philosophy, 2013-
Associate Professor, Department of Philosophy, 2006-
Faculty, Group in Logic and the Methodology of Science, 2006-

Rice University

Assistant Professor, Department of Philosophy, 1999-2006

Education

Harvard University

Ph.D., Philosophy, 1999

Pennsylvania State University

B.S. degree with highest distinction, in Mathematics, 1988
B.A. degree with highest distinction and honors, in Philosophy, 1988

Areas of Specialization

Philosophy of Science, Epistemology

Areas of Competence

Logic, Metaphysics, Kant's Theoretical Philosophy

Academic Honors

Visiting Fellow, Center for Formal Epistemology, Carnegie Mellon University,
August 2013, Fall 2014
Mellon Project Grant, UC Berkeley, "Rational Self-Doubt," 2013-14
Humanities Research Fellowship, UC Berkeley, "Rational Self-Doubt," 2013-14
NSF grant award SES, 2008-2012, "Fallibility and Revision in Science and Society"
Visiting Fellow, Dept. of Logic and Philosophy of Science, U.C.-Irvine, Spring 2004

Visiting Fellow, Center for Philosophy of Science, Univ. of Pittsburgh, Fall 2003
Woodrow Wilson Career Enhancement Fellowships, 2002, Honorable Mention
Center for the Study of Cultures teaching leave fellowship, Fall 2001
American Association of University Women Dissertation Fellowship, 1995-96
National Science Foundation Fellowship, for Philosophy of Science, 1988-91
Mellon Fellow in the Humanities, 1988 cohort
Dotterer Prize in Philosophy, Penn State, 1988
National Endowment for the Humanities Younger Scholars Award, summer 1987

Publications

- "Hypochondria and Self-recalibration," to appear in *Self-Knowledge in and out of Illness*, Sherrilyn Roush and Tuomas Pernu eds. Palgrave Communications, 2017.
- "Epistemic Self-Doubt", to appear in *Stanford Encyclopedia of Philosophy*.
- "Reasoning and Indirect Knowledge," to appear in *Res Philosophica*, 2017.
- "Simulation and Understanding Other Minds," *Nous : Philosophical Issues* 26 - *Knowledge and Mind*, 2016.
- "Knowledge of Our Own Beliefs," *Philosophy and Phenomenological Research*. Published as Early View online, 2016.
- "The Difference between Knowledge and Understanding," in press, *Explaining Knowledge: New Essays on the Gettier Problem*, Oxford University Press, expected 2016.
- "The Epistemic Superiority of Experiment to Simulation," under review at *Synthese*.
- "The Rationality of Science in Relation to its History," in *Kuhn's Structure of Scientific Revolutions: 50 Years On*, Boston Studies in Philosophy and History of Science, Springer, 2015.
- "Sensitivity and Closure," in *The Sensitivity Principle in Epistemology*. Kelly Becker and Tim Black, eds. Cambridge University Press, 2012.
- "Justification and the Growth of Error," *Philosophical Studies*, June 2012.
- "Skepticism about Reasoning," with Kelty Allen and Ian Herbert, in *New Waves in Philosophical Logic*, Gillian Russell and Greg Restall eds. Palgrave-MacMillan, 2012.
- "Closure on Skepticism," *Journal of Philosophy*, (May 2010) Volume CVII, No. 5: 243-256.
- "The Value of Knowledge and the Pursuit of Survival," *Metaphilosophy* Vol. 41, No. 3, April 2010. Reprinted in *Putting Information First: Luciano Floridi and the Philosophy of Information*, Patrick Allo, editor. Blackwell, 2010.
- "Optimism about the Pessimistic Induction," in *New Waves in Philosophy of Science*, P.D. Magnus and Jacob Busch eds. Palgrave-MacMillan, 2010.
- "Second-Guessing: A Self-Help Manual," *Episteme* 6.3 (2009): 251-268.
- "Précis of *Tracking Truth*," and "Replies to Critics," *Philosophy and Phenomenological Research* 79(1), 213-222, 240-247, JI 2009.
- "Randomized Controlled Trials and the Flow of Information," *Philosophical Studies* 144 (May 2009), Proceedings of the 38th Oberlin Colloquium in Philosophy.
- Tracking Truth: Knowledge, Evidence, and Science*. Paperback. Oxford University Press, 2007.

"Constructive Empiricism and the Role of Social Values in Science," in *Value-Free Science: Ideal or Illusion?*, Harold Kincaid, John Dupré, and Alison Wylie eds. Oxford: Oxford University Press, 2007.

Tracking Truth: Knowledge, Evidence, and Science, Oxford University Press, 2005.

"Testability and Candor," *Synthese* 145/2 (2005): 233-275.

"Testability and the Unity of Science," *Journal of Philosophy* 101 (Nov. 2004): 555-573.

"Discussion: Positive Relevance Defended," *Philosophy of Science* 71 (2004): 110-116, reprinted in *Scientific Evidence: Philosophical Theories and Applications*, ed. Peter Achinstein, Johns Hopkins University Press, 2005.

"Copernicus, Kant, and the Anthropic Cosmological Principles," *Studies in History and Philosophy of Modern Physics* 34 (2003): 5-35.

"Gott's Doomsday Argument," with Bradley Monton, *PhilSci Archive*, 2001.

"Alternate Possibilities and their Entertainment," *Philosophy* 73 (1998): 559-571.

Other Publications

"Facing our Fallibility," *International Innovations* (European portal for scientific dissemination, online and print magazine), Research Media Ltd., 2012.

"Pessimistic Induction," *Encyclopedia of Philosophy and the Social Sciences*, Byron Kaldis, editor. SAGE Reference, 2012.

"Fallibility and Authority," *Leadership in Science and Technology: A Reference Handbook*, William Sims Bainbridge, editor. SAGE Reference Series on Leadership, 2012.

"Love Science," article for Philosophy Department newsletter, 2008.

"Robert Nozick," *Companion to Epistemology*. Malden, MA: Blackwell, 2008.

"Problem of Induction," in *The Philosophy of Science: An Encyclopedia*, Routledge, 2005.

"Anthropic Principle," in *The Philosophy of Science: An Encyclopedia*, Routledge, 2005.

Book Reviews

Deductive Logic (2003) by Warren Goldfarb, *Bulletin of Symbolic Logic* (Dec. 2004).

The Book of Evidence (2001) by Peter Achinstein, *ISIS* (March 2003): 203-204.

The Comprehensibility of the Universe (1998) by Nicholas Maxwell, *Philosophical Review* 110 (January 2001): 85-87.

Other Public Materials

"Second-Guessing Ourselves," Philosophy Talk Radio Show, aired September 2014, available at philosophytalk.org

"Why Track Bigfoot?" contribution for exhibition on Bigfoot at Phoebe A. Hearst Museum of Anthropology, U.C., Berkeley. Spring 2008

“Evolutionary Science, and Religion in America,” Interview with German Public Radio, broadcast for occasion of Darwin’s 200th birthday. Broadcast Spring 2008

Invited Talks

- May 2016 “The Difference Between Knowledge and Understanding,” University of Edinburgh, Epistemology Research Group.
- May 2016 “Hypochondria and Self-Re-calibration,” Self-Knowledge in and out of Illness Symposium, King’s College London.
- April 2016 “Reasoning and Indirect Knowledge,” *Res Philosophica* conference - Bridges Between Formal and Traditional Epistemology.
- October 2015 “Self-Doubt and Conclusion Reversals,” Philosophy of Medicine and Medical Humanities Seminar, University of Bristol
- June 2015 “Knowledge of Our Own Beliefs,” Popper Seminar, London School of Economics
- May 2015 “Knowledge of Our Own Beliefs,” Keynote Lecture, Berkeley-London Graduate Philosophy Conference, UC Berkeley.
- May 2015 “Knowledge of Our Own Beliefs,” Rutgers Epistemology Conference
- February 2015 “The Difference between Knowledge and Understanding,” Epistemology Workshop, Kyoto University, Japan
- “Closure and the Growth of Error,” Kyoto University, Japan
- “Rationality and Mental Disorder,” Psychiatry Group, School of Medicine, Kyoto U.
- January 2015 “The Rationality of Science in Relation to its History,” History and Philosophy of Science, University of Cambridge
- November 2014 “Closure and the Growth of Error,” *Synthese* conference: Qualitative and Quantitative Methods in Formal Epistemology, Amsterdam
- November 2014 “The Rationality of Science in Relation to its History, Annual Lecture Series, Center for Philosophy of Science, University of Pittsburgh
- October 2014 “Rational Self-Doubt: The Re-Callibrating Bayesian,” Carnegie Mellon University, philosophy colloquium
- June 2014 “Knowledge, Understanding, and Respect,” Kings College London, philosophy colloquium
- June 2014 “Self-Doubt and Conclusion Reversals,” Kings College London, philosophy colloquium
- March 2014 “The Difference between Knowledge and Understanding,” UBC Epistemology Colloquium, Vancouver
- February 2014 “The Difference between Knowledge and Understanding,” Logic Colloquium, UC Berkeley
- May 2013 “Rational Self-Doubt,” Formal Epistemology Workshop, Rutgers
- April 2013 “Rational Self-Doubt,” University of Miami
- April 2013 “The Rationality of Science in Relation to its History,” University of Miami
- February 2013 “The Rationality of Science in Relation to its History,” Yale philosophy colloquium
- Dec. 2012 “The Gettier Problem: Knowledge and Understanding,” Eastern APA Symposium: Gettier at 50.
- Dec. 2012 “Rules and Rationality,” Symposium: Kuhn’s *Structure* 50 Years Later, MIT
- June 2012 “Reasoning and the Growth of Error,” Logic, Rationality, and Intelligent Interaction Workshop, Stanford CSLI
- April 2012 “Optimism about the Pessimistic Induction,” University of Indiana, Bloomington History and Philosophy of Science Department colloquium
- January 2012 “Reasoning and the Growth of Error,” Logic Colloquium, Group in Logic and the

- Methodology of Science
- May 2011 "Calibration, Credibility, and Equity," Logic and Methodology Workshop, Stanford CSLI
- April 2011 "Calibration, Credibility, and Equity," part of invited symposium "Statistics in Applied Epistemology," American Philosophical Association, Pacific, annual meeting
- March 2011 "Rational Self-Doubt," MIT philosophy colloquium
- February 2011 "Rational Self-Doubt," U.C., Riverside philosophy colloquium
- Nov. 2010 "Individualists can be Predictivists Too," commentary on *The Paradox of Predictivism*, Philosophy of Science Association meeting, Montreal
- Dec. 2009 "Rational Self-Doubt," Logic Colloquium, Group in Logic and the Methodology of Science, U.C., Berkeley
- October 2009 "Optimism about the Pessimistic Induction," Virgil Aldrich Lecture, University of Utah Department of Philosophy
- October 2009 "Optimism about the Pessimistic Induction," University of British Columbia philosophy colloquium
- June 2009 "Second-Guessing: A Self-Help Manual," *Episteme* Conference on Disagreement, Northwestern University
- May 2009 "Hume and the Logic of Second-Guessing," Stanford Logic in the Humanities Workshop
- May 2009 "Optimism about the Pessimistic Induction," U.C., Santa Barbara
- April 2009 "Optimism about the Pessimistic Induction," London School of Economics, conference
- Nov. 2008 "Optimism about the Pessimistic Induction," University of Washington, Seattle, philosophy colloquium
- May 2008 "As the World Turns: the Value of Knowledge and Justification," Stanford-Berkeley Logic Workshop
- May 2008 "What is Reasoning Good For?" Keynote lecture, London-Berkeley Graduate Philosophy Conference
- April 2008 "What is Reasoning Good for?" Working Group in Philosophy of Mind
- April 2008 "Randomized Controlled Trials and the Flow of Information," commentary on Nancy Cartwright, "Evidence-Based Policy: So, What's Evidence?" 38th Oberlin Colloquium in Philosophy
- Feb. 2008 "Vigilante Science," Phoebe Hearst A.Museum of Anthropology, U.C., Berkeley
- Nov. 2007 "What is Reasoning Good for?" PhilFemme, U.C., Berkeley
- Nov. 2007 "What is Reasoning Good for?" Institute for Cognitive and Brain Sciences, U.C. Berkeley
- June 2007 "Literalism and Cruelty to Animals," Comment on Fred Dretske, Conference on the Epistemology of Keith Lehrer, Porto Alegre, Brazil
- May 2007 "Knowledge of Logical Truth," Logical Methods in the Humanities colloquium, Stanford University
- May 2007 "Tracking: Knowing the Truth," Department of Philosophy, U.C., San Diego
- May 2007 "Real Anti-realism," Distinguished Speaker, Graduate Student Conference, U.C.S.D.
- October 2006 "Knowledge of Logical Truth," Logic Colloquium, Group in Logic and the Methodology of Science, U.C., Berkeley
- May 2006 Commentary on "Tracking Truth," Horacio Arlo-Costa and Rohit Parikh, Formal Epistemology Workshop, U.C., Berkeley
- April 2006 "Evidence: Discrimination, Indication, and Leverage," Department of Statistics, Rice University
- March 2006 "Science and Authority: Fine-Tuning and Design in Modern Cosmology," *Rockwell Lecture Series*, Rice University

- February 2006 "Tracking: Knowing the Truth," Department of Philosophy, U.C., Berkeley
- May 2005 Commentary on "Uncertainty and Undermining," Jim Pryor, Formal Epistemology Workshop, University of Texas, Austin
- April 2005 "Knowledge of Logical Truth," Department of Logic and Philosophy of Science, U.C., Irvine
- March 2005 Commentary on "Scientific Kinds and the New Essentialism," Anjan Chakravartty, Pacific Division APA meeting
- June 2004 "Real Anti-Realism," Department of Logic and Philosophy of Science, U.C., Irvine
- May 2004 "The Probability of the Evidence," Formal Epistemology Workshop, Program for Logic and Methodology of Science, U.C., Berkeley
- May 2004 "The New Tracking Theory of Knowledge," Dept. of Philosophy, U.C., Irvine
- Apr.-May 2004 "Knowledge as Tracking," Game Theory Seminar, LPS, U.C., Irvine
- Oct. 2003 "The Tracking View of Scientific Evidence," Center for Philosophy of Science, University of Pittsburgh
- April 2003 "The Tracking View of Scientific Evidence," Conference on Scientific Evidence, Johns Hopkins University
- March 2003 "What is Evidence? Discrimination, Indication and Leverage," Department of Philosophy, Southern Methodist University
- Oct. 2002 "What do Animals Know?" Center for the Study of Cultures, Rice University
- Oct. 2002 "Entanglement between a Study and its Subject Matter," Anthropology Department, Rice University
- Sept. 2002 "Tracking with Closure," Philosophy Department, Texas A&M
- Nov. 2001 "The Anthropic Principle," American Academy of Religion, Denver, CO
- Sept. 2001 "Testability and Candor," Central Texas Philosophy of Science Consortium
- May 2001 Commentary on "The Causal Constraint and the Uniqueness Constraint," Jose Martin, Central Division APA meeting
- Feb. 2001 "Constructive Empiricism and the Role of Social Values in Science," *Values and Science Conference*, University of Alabama, Birmingham
- Oct. 2000 "The Anthropic Principle: Probability, Cosmology and Copernicus," *Scientia* University Lecture Series, Rice University
- Aug. 2000 "The Spectator View of Knowledge" and "Weak Anthropic Reasoning," Kira Institute Summer School
- Nov. 1999 "Selection Effects and Revolutions," University of Texas, Austin
"The Heuristic Aspect of Transcendental Arguments," U.T., Austin
Philosophy of Science Group
- March 1997 "The Anthropic Principle," Physical Sciences Research Group, Harvard
- Feb. 1996 "On the Possibility of Anthropic Explanation," Harvard-Princeton History of Science Colloquium

Refereed Presentations

- Nov 2014 "The Epistemic Superiority of Experiment to Simulation," 24th Biennial Philosophy of Science Association meeting 2014
- May 2014 "The Epistemic Superiority of Experiment to Simulation," Philosophy of Scientific Experiment 4, Center for Philosophy of Science, University of Pittsburgh
- October 2013 "The Rationality of Science in Relation to its History," 17th Inter-American Congress of Philosophy, Bahia, Brazil

- November 2006 *Tracking Truth*, Author Meets Critics, PSA 2006, Vancouver
 March 2006 *Tracking Truth*, Author Meets Critics, Pacific APA, Portland
 March 2003 "Tracking with Closure," Pacific APA Colloquium
 Dec. 2002 "Testability and the Unity of Science," Eastern APA Symposium
 June 1999 "A Different Source for the Inadjudicability of Disputes," Incommensurability Conference, Hanover, Germany
 Sept. 1997 "Transcendental Arguments," British Society for Philosophy of Science, Oxford
 Aug. 1995 "A Peculiarity of Explanation in the Cosmological Context," Physical Sciences Section, 10th International Congress of Logic, Methodology and Philosophy of Science, Florence, Italy
 Feb. 1993 "Gödel's Theorems and the Mind," 1st Annual Harvard/MIT Graduate Phil. Conference

Teaching Experience

I. Philosophy

U.C., Berkeley, Dept. of Philosophy,

- Computer Simulation in Science and Philosophy (freshman seminar Fall 2013)
- Probability as Constraint and Representation (graduate seminar Spring 2010, 2011, 2012)
- Epistemology – upper level (Fall 2007, 2010, 2013)
- Introductory Logic (Fall 2010, 2011, 2012)
- Philosophy of Science – upper level (Spring 2007, 2009, 2010, Spring 2013, Fall 2013)
- Dissertation seminar (2008-09, 2012-13)
- Fallibility in Science and Society, graduate seminar (Fall 2008)
- Knowledge and Its Limits – lower level epistemology (Fall 2006, 2008, Spring 2012)
- Self-Monitoring and Rationality, graduate seminar (Fall 2007)
- Knowledge and its Limits*, graduate seminar, with Branden Fitelson (Fall 2006)

Rice University, Dept. of Philosophy, Assistant Professor

- Theory of Knowledge (Spring 2003, Spring 2005, Fall 2005)
- Philosophical Perspectives on Science (Fall 1999, Fall 2000, Spring 2002, Fall 2004)
- Philosophy of Science (Fall 1999, Fall 2000, Spring 2002, Spring 2005)
- Deductive Logic (Spring 2000, Fall 2005)
- Scientific Reasoning - graduate seminar (Spring 2000)
- Progress in Science - graduate seminar (Spring 2001)
- Epistemology of Science - graduate seminar (Fall 2004)

Harvard University, Dept. of Philosophy

- Teaching Assistant, Frege, Russell, and Early Wittgenstein (Spring 1998)
- Teaching Assistant, Moral Reasoning: Self, Freedom and Existence (Fall 1997)
- Instructor, 2 tutorials: A Priori Knowledge (Spring 1997)
- Instructor, 2 tutorials: The Problem of Induction (Spring 1995, Fall 1996)
- Instructor, tutorial on Kant's *Critique of Pure Reason* (Fall 1994)
- Teaching Assistant, Logic and Philosophy (Math 141), advanced logic (Spring 1994, Spring 1993, Spring 1991)
- Teaching Assistant, Deductive Logic, an introductory course (Fall 1993, Fall 1991, Summer School 1991)

Teaching Assistant, Introduction to Philosophy
 (Fall 1992, Summer School 1994)
 Teaching Assistant, Philosophy of Physics (Spring 1991)

Core Curriculum, Teaching Assistant:
 The Public and the Private, Seyla Benhabib (Spring 1999)

II. Science

Harvard University, Core Curriculum Science

Teaching Assistant, The Einsteinian Revolution, Peter Galison (Fall 1998)
 Teacher, Space, Time and Motion (Fall 1991, Spring 1992)
 Teacher, Chance, Necessity and Order (Fall 1990)

New England Conservatory of Music, Department of Liberal Arts, Lecturer

Measure for Measure, a course on music and science (Fall 1996)
 Chance, Necessity, Order and Chaos (Fall 1991, Fall 1992, Fall 1993, Fall 1994)
 Introduction to Astronomy and Cosmology (Spring 1992, Spring 1993, Spring 1994)

Radcliffe

Radcliffe Summer Program in Science, Section teacher and lab instructor (Summer 1992)

Pennsylvania State University, Core Curriculum Biology, Teaching Assistant (Spring 1986)

Teaching Honor

Certificate of Excellence in Teaching, Harvard, for "Space, Time and Motion", 1991-92

Service

2014 Advisory Committee for Eastern APA 2014 meeting – philosophy of science
 2013- Tarski Fund Committee
 2011-Dec. '13 Chair, Group in Logic and the Methodology of Science
 2010-13 Chair, Graduate Admissions and Fellowships, Dept. of Philosophy
 2010-11 Graduate Advisor, Group in Logic and the Methodology of Science
 2010 CUSH Regents' and Chancellor's Scholarship Subcommittee
 2008-09 CAPRA
 2008-11 Philosophy Department Equity Advisor
 2007 Graduate Admissions Committee
 2007- Section Editor, Epistemology, *Philosophy Compass*
 2007-08 Faculty Search committee
 2005- Editorial Board, *Philosophy Compass*
 2005-6 Graduate Placement Officer, Philosophy, Rice University
 2005-6 PSA Program Committee
 2004-6 Faculty and Staff Benefits Committee (university committee)
 2002-3 Humanities Dean Search Committee
 2002-3 Marshals Committee (university committee)
 2002-3, 05-6 Leader, Cultural Studies of Science and Technology, Center for the Study of Cultures
 Spring 2002 Conference organizer for Central Texas Philosophy of Science Consortium
 2002- Consulting editor for *Episteme*
 2000-2, and

2004-5 Director of Graduate Studies, Philosophy, Rice University
 2001-2 President's Lecture Series (university committee)
 2000-1 Graduate Council (university committee)
 2001- Graduate Grievance Committee (division committee)
 2001-2005 Editorial Advisory Board, *The Philosophy of Science: An Encyclopedia*, Routledge
 2000-3 Group Leader for History and Public Policy, Rice Space Institute
 1999- Faculty Associate, Will Rice College
 1999-2001 Member, Center for the Study of Science and Technology, Rice University
 1999-2000 Undergraduate Advisor, Philosophy, Rice University

Other Work and Experience

2001 Invited Participant, *Metaphysical Mayhem VI*, Syracuse University
 1997-9 Non-resident Tutor, Adams House, Harvard University
 1994-6 Research Assistant, for Peter Galison, Harvard, History of Science, on
Image and Logic: A Material Culture of Microphysics, "Judgment
 Against Objectivity," and "The Americanization of Unity"
 1994 Conference Organizer for 2nd Annual Harvard/MIT Graduate
 Philosophy Conference
 1993-98 Research Assistant for Peter Galison, Harvard, History of Science, on:
Image and Logic and *Aufbau/Bauhaus*
 1992 Participant, Director, Editor, for two films on teaching science, Harvard
 Danforth Center for Teaching

Professional Affiliations

American Philosophical Association
 Philosophy of Science Association

Dissertation Committee

Hilary Putnam, Department of Philosophy, Harvard University, emeritus
 Robert Nozick, Department of Philosophy, Harvard University, deceased
 Simon Saunders, Department of Philosophy, Oxford University