

## Sherrilyn Roush

UCLA Department of Philosophy  
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### Employment

*University of California, Los Angeles*

Professor of Philosophy, 2017-

*King's College London*

Peter Sowerby Professor of Philosophy and Medicine, 2014-2017

*University of California, Berkeley*

Professor, Department of Philosophy, 2013-2014

Associate Professor, Department of Philosophy, 2006-2013

Faculty, Group in Logic and the Methodology of Science, 2006-2014

*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, Formal Epistemology

### Areas of Competence

Logic, Metaphysics, Kant's Theoretical Philosophy

### Academic Honors

Alumnus of the Year 2024, Department of Philosophy, Pennsylvania State University  
Visiting Fellow, Center for Formal Epistemology, Carnegie Mellon University,

August 2013, Fall 2014

Humanities Research Fellowship, UC Berkeley, "Rational Self-Doubt," for Fall 2015, declined  
 Mellon Project Grant, UC Berkeley, "Rational Self-Doubt," for 2014-2015, declined  
 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, 1995-1996  
 National Science Foundation Fellowship, for Philosophy of Science, 1988-1991  
 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

"Verdictive Justice and the Value of Procedure," to appear in *Philosophical Perspectives on Crime, Violence, and Justice*, M. Blake Wilson, ed. Budapest: Trivent Publishing.

"Naked Statistical Evidence and Verdictive Justice," to appear in *Analytic Philosophy*.

["Knowledge, Evidence, and Naked Statistics"](#), in *Externalism about Knowledge*, Luis Oliveira ed. Oxford: Oxford University Press, 2023.

"Coherence, Truthfulness, and Efficiency in Communication," *Philosophical Analysis* (Chinese only), 2021.

["The Epistemic Superiority of Experiment to Simulation"](#), *Synthese* 195 (11): 4883-4906, 2018.  
<https://link.springer.com/article/10.1007/s11229-017-1431-y>

"Epistemic Self-Doubt", *The Stanford Encyclopedia of Philosophy* (Winter 2017 Edition), Edward N. Zalta (ed.), URL = <<https://plato.stanford.edu/archives/win2017/entries/epistemic-self-doubt/>>.

["The Difference between Knowledge and Understanding"](#), in *Explaining Knowledge: New Essays on the Gettier Problem*. Oxford: Oxford University Press, 2017, 384-407.

["Closure Failure and Scientific Inquiry"](#), *Res Philosophica* 94 (2): 275-299, 2017.

["Simulation and Understanding Other Minds"](#), *Noûs: Philosophical Issues* 26 - *Knowledge and Mind*, 2016.  
<https://doi.org/10.1111/phis.12079>

["Knowledge of Our Own Beliefs"](#), *Philosophy and Phenomenological Research* 93 (3): 45-69, 2016.

["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, 71-90.

["Justification and the Growth of Error"](#), *Philosophical Studies* 165 (2): 527-551, 2013.  
<https://www.jstor.org/stable/42920519>

["Sensitivity and Closure"](#), in *The Sensitivity Principle in Epistemology*. Kelly Becker and Tim Black, eds. Cambridge University Press, 2012, 242-268.

["Skepticism about Reasoning"](#), with Kelty Allen and Ian Herbert, in *New Waves in Philosophical Logic*, Gillian Russell and Greg Restall eds. Palgrave-MacMillan, 2012, 112-141.

- ["Closure on Skepticism"](#), *Journal of Philosophy* 107 (5): 243-256, 2010.  
<https://www.jstor.org/stable/25764444>
- ["The Value of Knowledge and the Pursuit of Survival"](#), *Metaphilosophy* 41 (3): 255-278, 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, 29-58.
- ["Second-Guessing: A Self-Help Manual"](#), *Episteme* 6 (3): 251-268, 2009.
- ["Précis of Tracking Truth"](#), and ["Replies"](#), *Philosophy and Phenomenological Research* 79(1), 213-222, 240-247, 2009.
- ["Randomized Controlled Trials and the Flow of Information: Comment on Cartwright"](#), *Philosophical Studies* 143 (1): 137-145, 2009, Proceedings of the 38<sup>th</sup> Oberlin Colloquium in Philosophy.
- ["Constructive Empiricism and the Role of Social Values in Science"](#), in *Value-Free Science: Ideals and Illusions*, Harold Kincaid, John Dupré, and Alison Wylie eds. Oxford: Oxford University Press, 2007.
- [Tracking Truth: Knowledge, Evidence, and Science](#). Oxford University Press, 2005. Paperback 2007.
- ["Testability and Candor"](#), *Synthese* 145 (2): 233-275, 2005. <https://www.jstor.org/stable/20118592>
- ["Testability and the Unity of Science"](#), *Journal of Philosophy* 101 (11): 555-573, 2004.  
<https://www.jstor.org/stable/3655667>
- ["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. <https://doi.org/10.1086/381416>
- ["Copernicus, Kant, and the Anthropic Cosmological Principles"](#), *Studies in History and Philosophy of Modern Physics* 34 (2003): 5-35.
- ["Alternate Possibilities and their Entertainment"](#), *Philosophy* 73 (1998): 559-571.  
<https://www.jstor.org/stable/3751955>

### Work in Progress

- "The Wrong of Testimonial Injustice" – I give an account of the nature of the wrong of epistemic injustice that has it depend not on the inaccuracy of generalizations that are used or made in the process of deciding whether to listen to or trust a speaker, but on whether the basis of the decision about a speaker is their reliability or their identity, and the account explains why the latter is a moral wrong.
- "Epistemic Purism and the Principle of Total Evidence" – In my view judging individuals using generalizations can be a moral wrong even if those generalizations are reliable. This raises the question whether we can have a moral obligation to violate the principle of total evidence that says we must take all evidence into account. I probe the origin and justification of two principles of total evidence, and explain how it is possible to adhere to them and avoid morally wronging others.

“Law and Likelihoods” – I use an understanding of likelihoods to explain several important aspects of legal evidence: 1) what is strong, and what is weak, about DNA match evidence, 2) why multi-factor profiling is far superior to single-factor profiling, 3) how a body of circumstantial evidence can be just as strong as a piece of direct evidence, 4) why corroborating evidence can strengthen a case significantly without raising the posterior probability of the charge very much.

“Base Rates in Case Law,” with Harrison James. This is a law review survey paper of real cases that are referred to, usually in passing, when philosophers and legal theorists discuss the problem of naked statistical evidence using toy examples. We find that none of the cases usually cited are actually examples of the toy question about naked statistical evidence that these theorists ask, but there are such cases in Vaccine Court.

“Realism, Race, and Natural Kinds,” In many publications, Quayshawn Spencer has argued that the race categories used by the Office of Management and Budget (African, European, Asian, Pacific Islander, (Native) American) correspond to biologically real races. The basis of this claim is the genetic clustering found by algorithms mining genomes of current human beings. I argue that this evidence does not support the conclusion.

“Is Knowledge a Natural Kind?” Hilary Kornblith famously argued that knowledge is a natural kind. How metaphysically realist do we need to be about natural kinds for this claim to be significant? I argue that a metaphysically minimalist picture of what natural kinds are is sufficient to support the significance of this thesis about knowledge.

“[Hypochondria and Self-Recalibration](#)” revise and resubmit status, for Current Themes in the Philosophy of Psychiatry, a special issue of *Critica: Revista Hispanoamericana de Filosofía*.

### Other Publications

*Self-Knowledge in and outside of Illness*, edited volume, Tuomas Pernu and Sherrilyn Roush eds. *Palgrave Communications*, 2017. <https://www.nature.com/collections/ttmsbvsznt>

“Facing our Fallibility”, *International Innovation* (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, UC Berkeley, 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.

## Posted

[“Gott’s Doomsday Argument,”](#) with Bradley Monton, *PhilSci Archive*, 2001.

[“Bayesian Recalibration: A Generalization,”](#) *PhilSci Archive*, 2017.

[Belief and Decision under Uncertainty.](#) *PhilPapers*, 2017.

[“Hypochondria and Self-Recalibration,”](#) *PhilPapers*, 2017.

## Book Reviews

*Deductive Logic* (2003) by Warren Goldfarb, *Bulletin of Symbolic Logic* 10 (4): 570-573, Dec. 2004.

*The Book of Evidence* (2001) by Peter Achinstein, *ISIS* 94 (1): 203-204, March 2003.

*The Comprehensibility of the Universe* (1998) by Nicholas Maxwell, *Philosophical Review* 110 (1): 85-87, 2001.

## Outreach

Research Consultant, [Mental Health and Justice](#), Wellcome Trust research initiative, 2016-2021. Member of workstreams 4 and 5: Decision-making and Insight, and Decision-making and Metacognition.

Panelist, “Cutting Edge Technology for All – How?” Satellite Symposium sponsored by Boehringer-Ingelheim Pharmaceuticals, European Association of Hospital Pharmacists (EAHP) meeting, Cannes, France, March 2017.

Panelist, “What would the world look like if everyone had Inflammatory Bowel Disease?” Panel Discussion sponsored by Boehringer-Ingelheim Pharmaceuticals, European Crohn’s and Colitis Organization (ECCO) meeting, Barcelona, Spain, February 2017.

Interviewee, “Eradicating All Diseases”, BBC Radio 4, September 2016, re: Zuckerberg Infectious Disease Initiative.

Interviewee, “Moral Dimensions of Artificial Intelligence”, Research for Construction Film (Swedish Production Company), 2016.

Guest, “Second-Guessing Ourselves,” Philosophy Talk Radio Show, aired September 2014, available at [philosophytalk.org](http://philosophytalk.org)

Contributor, “Why Track Bigfoot?”, text for exhibition on Bigfoot at Phoebe A. Hearst Museum of Anthropology, U.C., Berkeley. Spring 2008.

Interviewee, “Evolutionary Science, and Religion in America,” German Public Radio, broadcast for occasion of Darwin’s 200<sup>th</sup> birthday, Spring 2008.

## Invited Talks

- October 2023 "What is Unjust about Epistemic Injustice?" Midwest Epistemology Workshop, Washington University in St. Louis.
- June 2023 "Naked Statistical Evidence and Verdictive Justice," Tokyo Forum for Analytic Philosophy, University of Tokyo, Komaba.
- October 2022 "Naked Statistical Evidence and Verdictive Justice," Columbia University
- May 2022 "Naked Statistical Evidence and Verdictive Justice," *Analytic Philosophy Symposium*, University of Texas, Austin
- April 2022 "Realism, Race, and Natural Kinds," History, Philosophy, and Science of Science (HPASS) working group, UCLA
- Feb. 2022 "Realism, Race, and Natural Kinds," Symposium: New Avenues in the Scientific Realism Debate, Central APA
- Jan. 2022 "Should decision theory guide the formulation of the Principal Principle?" Rutgers Foundations of Probability Seminar Panel
- Dec. 2020 "The Use and Abuse of Base Rates," Philosophy in Medical Education: Race, Gender and Bias Workshop, *Philosophy & Medicine Project*, King's College London
- August 2020 "Principles of Total Evidence", 3-part webinar series, Bayes by the Sea (cancelled)
- August 2020 "Evidence that is Illegal to Use", Bayes by the Sea, Ancona, Italy, 2020 conference; cancelled, re-invitation for 2021; cancelled.
- February 2020 "Epistemic Justice and the Principle of Total Evidence", Philosophy of Science seminar, UC San Diego
- Sept. 2019 "Metacognition and Mental Capacity" Mental Health and Justice Annual meeting, Wellcome Trust, London
- Sept. 2019 "Epistemic Justice and the Principle of Total Evidence", Philosophy Colloquium, King's College London
- January 2019 "Epistemic Justice and the Principle of Total Evidence", HPS colloquium, Indiana University
- July 2018 "Coherence, Truthfulness, and Efficiency in Communication", 13th Conference on Logic and the Foundations of Game and Decision Theory (LOFT), Bocconi University, Milan
- May 2018 "Coherence and Truthfulness", Conference in Ethics and Epistemology, Shandong University, Jinan, China
- May 2018 "Coherence and Truthfulness", Knowledge, Belief, Evidence Conference, Ertegun House, University of Oxford
- October 2017 "The Epistemic Superiority of Experiment to Simulation," History and Philosophy of Science Seminar, University of Leeds
- October 2017 "Evidence and the Single Case", Mental Health and Justice Workshop, Institute of Psychiatry, Psychology, and Neuroscience, King's College London
- Sept. 2017 "The Epistemic Superiority of Experiment to Simulation," Aarhus University, Denmark
- March 2017 "The Epistemic Superiority of Experiment to Simulation," Philosophy of Science Research Group, University of Edinburgh
- February 2017 "Pride and the Virtues of Mechanical Methods," Workshop on Professional Vices, University of Warwick
- Dec. 2016 "Hypochondria and Self-Recalibration," Maudsley Philosophy Group, London
- Sept. 2016 "How Should Definitions be Justified?" 100<sup>th</sup> Meeting of the Royal Society of Chemistry, Toxicology Group, London

- Sept. 2016 "Closure Failure and Scientific Inquiry," Metaphysics of Knowledge Workshop, University of St. Andrews
- July 2016 "The Epistemic Superiority of Experiment to Simulation," Quad University of Pittsburgh HPS Fellows Conference, Lund University, Sweden
- June 2016 "The Difference Between Knowledge and Understanding," Department of Philosophy, UCLA
- May 2016 "The Difference Between Knowledge and Understanding," Epistemology Research Group, University of Edinburgh
- 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, St. Louis, MO
- 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
- Nov. 2014 "Closure and the Growth of Error," *Synthese* conference: Qualitative and Quantitative Methods in Formal Epistemology, Amsterdam
- Nov. 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-Calibrating Bayesian," Carnegie Mellon University, philosophy colloquium
- June 2014 "Knowledge, Understanding, and Respect," King's College London, philosophy colloquium
- June 2014 "Self-Doubt and Conclusion Reversals," King's 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?" 38<sup>th</sup> 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. 2017 "Epistemic Justice and the Principle of Total Evidence", Canadian Society for Epistemology, Montreal
- October 2017 "What makes it Understanding?", Understanding Others Workshop, Jena, Poster
- Nov 2016 "Decision Theory for Tomorrow's Doctors", 26<sup>th</sup> Biennial Philosophy of Science Association meeting 2016, Poster
- Nov 2014 "The Epistemic Superiority of Experiment to Simulation," 24<sup>th</sup> 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," 17<sup>th</sup> Inter-American Congress of Philosophy, Bahia, Brazil
- Nov. 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

### I. Philosophy

*UCLA*, Dept. of Philosophy,

- Natural Kinds and Kinds of People – graduate seminar (Spring 2021)
- What is Race? What is Sex? – undergraduate seminar (Winter 2021)
- Skepticism and Rationality – intro UG (Winter 2019, Winter 2020)
- Naked Statistical Evidence and Individuals – graduate seminar (Fall 2019)
- Knowledge and Individuals – graduate seminar (Spring 2019)
- Philosophy of Medicine – upper level UG (Spring 2019, Winter 2020, Spring 2021)
- Philosophy of Science – upper level UG (Winter 2018)
- Theory of Knowledge – upper level UG (Winter 2018, Winter 2019)
- The Value of Coherence – graduate seminar (Spring 2018)

*GKT School of Medical Education*, Belief and Decision under Uncertainty (Spring 2017)

*King's College London*, Dept. of Philosophy,

- Philosophy of Science – upper level UG, and Masters level (Spring 2016, 2017)
- Philosophy of Medicine – Masters level (Spring 2016, Fall 2016)

*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, The Public and the Private, Seyla Benhabib (Spring 1999)  
 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)

## 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 College*

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 University, for “Space, Time and Motion”, 1991-92

## Service

2023-24 Co-Chair, Philosophy of Science Section, XXV World Congress of Philosophy 2024  
 2021- Chair, Department of Philosophy, UCLA  
 2021- Chair, Kaplan-Panzer Philosophy Endowment Advisory Board  
 2020-2021 Faculty Review Committee for the 2021-22 Graduate Research Mentorship Program  
 2019-2021 Graduate Advisor, Dept. of Philosophy, UCLA  
 2018-2019 Dean’s Task Force on Experimental Humanities, UCLA  
 2018-2021 Kaplan-Panzer Philosophy Endowment Advisory Board member  
 2018 Graduate Admissions Committee, Dept. of Philosophy, UCLA  
 2016-2017 Humanities Lead, Curriculum 2020, curriculum reform at GKT School of Medicine  
 2014-2017 Director, *Philosophy & Medicine Program*, King’s College London  
 2014 Advisory Committee for Eastern APA 2014 meeting – philosophy of science  
 2013-2014 Tarski Fund Committee  
 2011-Dec. ‘13 Chair, Group in Logic and the Methodology of Science  
 2010-2013 Chair, Graduate Admissions and Fellowships, Dept. of Philosophy  
 2010-2012 Co-Chair, Graduate Admissions and Fellowships, Group in Logic and the  
 Methodology of Science  
 2010-2011 Graduate Advisor, Group in Logic and the Methodology of Science  
 2010 CUSH Regents' and Chancellor's Scholarship Subcommittee  
 2008-2009 CAPRA  
 2008-2011 Philosophy Department Equity Advisor  
 2007 Graduate Admissions Committee  
 2007-2011 Section Editor, Epistemology, *Philosophy Compass*  
 2007-2008 Faculty Search committee  
 2005-2010 Editorial Board, *Philosophy Compass*  
 2005-2006 Graduate Placement Officer, Philosophy, Rice University  
 2005-2006 PSA Program Committee  
 2004-2006 Faculty and Staff Benefits Committee (university committee)  
 2002-2003 Humanities Dean Search Committee  
 2002-2003 Marshals Committee (university committee)  
 2002-2003 and  
 2005-2006 Leader, Cultural Studies of Science and Technology, Center for the Study of Cultures  
 Spring 2002 Conference organizer for Central Texas Philosophy of Science Consortium  
 2002-2006 Consulting editor for *Episteme*  
 2000-2002 and  
 2004-2005 Director of Graduate Studies, Philosophy, Rice University  
 2001-2002 President’s Lecture Series (university committee)

2000-2001	Graduate Council (university committee)
2001-2003	Graduate Grievance Committee (division committee)
2001-2005	Editorial Advisory Board, <i>The Philosophy of Science: An Encyclopedia</i> , Routledge
2000-2003	Group Leader for History and Public Policy, Rice Space Institute
1999-2006	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, <i>Metaphysical Mayhem VI</i> , Syracuse University
1997-1999	Non-resident Tutor, Adams House, Harvard University
1994-1996	Research Assistant, for Peter Galison, Harvard, History of Science, on <i>Image and Logic: A Material Culture of Microphysics</i> , "Judgment Against Objectivity," and "The Americanization of Unity"
1994	Conference Organizer for 2nd Annual Harvard/MIT Graduate Philosophy Conference
1993-1998	Research Assistant for Peter Galison, Harvard, History of Science, on: <i>Image and Logic</i> and <i>Aufbau/Bauhaus</i>
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, deceased  
Robert Nozick, Department of Philosophy, Harvard University, deceased  
Simon Saunders, Department of Philosophy, University of Oxford