

PETER J. LEWIS

Curriculum Vitae

July 19, 2019

Department of Philosophy, Dartmouth College
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EDUCATION:

Ph.D. in philosophy, University of California, Irvine, March 1996.

M.A. in philosophy, University of California, Irvine, June 1992.

B.A. in physics, Brasenose College, Oxford, June 1988.

EMPLOYMENT:

Professor, Dartmouth College, July 2017 to present.

Associate Professor, University of Miami, August 2007 to July 2017

Assistant Professor, University of Miami, August 2001 to August 2007.

Visiting Lecturer, University of Miami, August 2000 to August 2001.

Visiting Lecturer and Honorary Visiting Assistant Professor, University of Hong Kong, December 1998 to August 2000.

Assistant Professor, Texas Tech University, September 1998 to August 2000.

Visiting Assistant Professor, Texas Tech University, May 1997 to May 1998.

Visiting Instructor, Texas Tech University, September 1995 to May 1997.

Teaching Associate/Assistant, University of California, Irvine, September 1990 to June 1995.

AREAS OF SPECIALIZATION:

Philosophy of Physics, Philosophy of Science.

AREAS OF COMPETENCE:

Epistemology, Metaphysics.

BOOKS:

Quantum Ontology: A Guide to the Metaphysics of Quantum Mechanics. Oxford University Press (2016).

REFEREED ARTICLES:

(with Don Fallis), "Accuracy, conditionalization, and probabilism", forthcoming in *Synthese*, doi: 10.1007/s11229-019-02298-3.

- “Against ‘experience’”, forthcoming in S. Gao (ed.), *Quantum Mechanics and Consciousness*. Oxford University Press.
- “Bohmian philosophy of mind?” forthcoming in J. Acacio de Barros and C. Montemayor (eds.), *Quanta and Mind: Essays on the Connection between Quantum Mechanics and Consciousness*. Springer.
- “Quantum Mechanics and its (Dis)Contents”, forthcoming in J. Saatsi and S. French (eds.), *Scientific Realism and the Quantum*. Oxford University Press.
- “Collapse Theories”, forthcoming in A. Wilson (ed.), *Companion to the Philosophy of Physics*. Routledge.
- “Bell’s theorem, realism, and locality”, in A. Cordero (ed.), *Philosophers Look at Quantum Mechanics*. Springer, 33–43 (2019).
- (with Don Fallis), “Toward a Formal Analysis of Deceptive Signaling”, *Synthese* 196: 2279–2303 (2019).
- “Bell’s theorem 55 years on”, Introduction to Virtual Issue, *British Journal for the Philosophy of Science*, https://academic.oup.com/bjps/pages/bells_theorem_vi (2019)
- “Inferring particles”, *Metascience* 27: 357–364 (2018).
- “On the Status of Primitive Ontology”, in S. Gao (ed.), *Collapse of the Wave Function*. Cambridge: Cambridge University Press, 154–166 (2018).
- “Quantum Mechanics, Emergence, and Fundamentality”, *Philosophica* 92: 53–75 (2017).
- “Holism and Time Symmetry”, *Quanta* 5: 95–92 (2016).
- (with Don Fallis), “The Brier Rule is Not a Good Measure of Epistemic Utility (and Other Useful Facts about Epistemic Betterness)”, *Australasian Journal of Philosophy* 94: 576–590 (2016).
- “In Search of Local Beables”, *International Journal of Quantum Foundations* 1: 215–229 (2015).
- “Interpretations of Quantum Mechanics”, in J. Fieser and B. Dowden (eds.), *The Internet Encyclopedia of Philosophy*, <http://www.iep.utm.edu/qm-inter/> (2015).
- “Measurement and Metaphysics”, in S. Gao (ed.), *Protective Measurement and Quantum Reality*. Cambridge: Cambridge University Press, 93–106 (2014).
- “Retrocausal Quantum Mechanics: Maudlin’s Challenge Revisited”, *Studies in History and Philosophy of Modern Physics* 44: 442–449 (2013).
- “The Doomsday Argument and the Simulation Argument”, *Synthese* 190: 4009–4022 (2013).
- “Dimension and Illusion”, in A. Ney and D. Albert (eds.), *The Wave Function*. Oxford: Oxford University Press, 110–125 (2013).
- “Probability in Everettian Quantum Mechanics”, *Manuscripta* 33: 285–306 (2010).
- “Credence and Self-Location”, *Synthese* 175: 369–382 (2010).
- “A Note on the Doomsday Argument”, *Analysis* 70: 27–30 (2010).
- “Probability, Self-Location, and Quantum Branching”, *Philosophy of Science* 76: 1009–1019 (2009).
- “Metaphysics and Quantum Physics”, in R. Le Poidevin, P. Simons, A. McGonigal and R. Cameron (eds.), *Routledge Companion to Metaphysics*. Abingdon: Routledge, 517–526 (2009).

- “Reply to Papineau and Durà-Vilà”, *Analysis* 69: 86–89 (2009).
- “How Bohm’s Theory Solves the Measurement Problem”, *Philosophy of Science* 74: 749–760 (2007).
- “Towards a local hidden variable theory”, *Foundations of Physics* 37: 1461–1469 (2007).
- “Empty Waves in Bohmian Quantum Mechanics”, *British Journal for the Philosophy of Science* 58: 787–803 (2007).
- “Uncertainty and Probability for Branching Selves”, *Studies in History and Philosophy of Modern Physics* 38: 1–14 (2007).
- “Quantum Sleeping Beauty”, *Analysis* 67: 59–65 (2007).
- “Conspiracy Theories of Quantum Mechanics”, *British Journal for the Philosophy of Science* 57: 359–381 (2006).
- “GRW: A Case Study in Quantum Ontology”, *Philosophy Compass* 1: 224–244 (2006).
- “Interpreting Spontaneous Collapse Theories”, *Studies in History and Philosophy of Modern Physics* 36: 165–180 (2005).
- “Life in Configuration Space”, *British Journal for the Philosophy of Science* 55: 713–729 (2004).
- “Quantum Mechanics and Ordinary Language: The Fuzzy Link”, *Philosophy of Science* 70: 1437–1446 (2003).
- “Four Strategies for Dealing with the Counting Anomaly in Spontaneous Collapse Theories of Quantum Mechanics”, *International Studies in the Philosophy of Science* 17: 137–142, (2003).
- “Counting Marbles: A Reply to Critics”, *British Journal for the Philosophy of Science* 54: 165–170 (2003).
- “Why the Pessimistic Induction is a Fallacy”, *Synthese* 129: 371–380 (2001).
- “What is it Like to be Schrödinger’s cat?”, *Analysis* 60.1: 22–29 (2000).
- “Quantum Mechanics, Orthogonality and Counting”, *British Journal for the Philosophy of Science* 48: 313–328 (1997).
- “GRW and the Tails Problem”, *Topoi* 14: 23–33 (1995).
- “Quantum Mechanics and Ontological Commitment”, *Kriterion* 5: 3–6 (1993).

BOOK REVIEWS:

- Shan Gao, *The Meaning of the Wave Function: In Search of the Ontology of Quantum Mechanics* (Cambridge University Press 2017), *International Journal of Quantum Foundations* (2018): 204–209.
- David Wallace, *The Emergent Multiverse: Quantum Theory according to the Everett Interpretation* (Oxford University Press 2012), *Notre Dame Philosophical Reviews* (2013).
- Simon Saunders, Jonathan Barrett, Adrian Kent and David Wallace (eds.), *Many Worlds? Everett, Quantum Theory, and Reality* (Oxford University Press 2010), *Philosophy of Science* 79:177–181 (2012).

MEDIA:

“Why philosophy of quantum mechanics is more important than that of poached eggs”, interview, *3am Magazine*, <http://www.3ammagazine.com/3am/philosophy-quantum-mechanics-important-poached-eggs/>

CONFERENCE ORGANIZATION:

Workshop on Quantum Indeterminacy, Dartmouth College, July 2019.

Society for Exact Philosophy, University of Miami, May 2016.

Chair and moderator, section on the meaning of the wave function, Online Workshop on Quantum Foundations, July 9–19, 2015.

Workshop on Retrocausality and Time-Symmetry, University of Miami, January 2013.

REFEREED PRESENTATIONS:

“Pragmatism and the Content of Quantum Mechanics”, Philosophy of Science Association Biennial Meeting, Seattle, November 2018.

“Pragmatism and the Content of Quantum Mechanics”, Australasian Association of Philosophy Annual Meeting, Wellington, New Zealand, July 2018.

(with Don Fallis), “Accuracy, Conditionalization, and Probabilism”, Philosophy of Science Association Biennial Meeting, Atlanta, November 2016.

“Sleeping Beauty Minimizes Inaccuracy”, Society for Exact Philosophy Annual Meeting, Miami, May 2016.

“Quantum Onto-Psychology”, Psycho-Ontology Conference, Shalem Center, Jerusalem, December 2011.

“Wavefunction Possibilism”, Australasian Association of Philosophy Annual Meeting, Dunedin, New Zealand, July 2011.

“Can Transactional Description of Quantum Mechanical Reality be Considered Complete?”, Philosophy of Science Association Biennial Meeting, Montreal, November 2010.

“Doom and Gloom: The Doomsday Argument and the Pessimistic Induction”, Society for Exact Philosophy Annual Meeting, Kansas City, March 2010.

“Probability, Self-Location, and Quantum Branching”, Philosophy of Science Association Biennial Meeting, Pittsburgh, November 2008.

“Probability, Self-Location and Quantum Branching”, British Society for the Philosophy of Science Annual Meeting, St Andrews, July 2008.

“Empty Waves in Bohmian Quantum Mechanics”, Philosophy of Science Association Biennial Meeting, Vancouver BC, November 2006.

“Empty Waves and Small Waves in Quantum Mechanics”, Australasian Association of Philosophy Annual Meeting, Sydney, Australia, July 2005.

“Uncertainty and Probability for Branching Selves”, American Philosophical Association Eastern Division Meeting, Boston, Massachusetts, December 2004.

“Quantum Mechanics, Probability and Immortality”, Florida Philosophical Association Annual Meeting, St. Petersburg, Florida, November 2003.

“Quantum Mechanics and Ordinary Language: The Fuzzy Link”, Philosophy of Science Association Biennial Meeting, Milwaukee, Wisconsin, November 2002.

- “In which Error Statistics Rescues Realism from the Pessimistic Induction”, Philosophy of Science Association Biennial Meeting, Vancouver BC, November 2000.
- “Why the Pessimistic Induction is a Fallacy”, Florida Philosophical Association Annual Meeting, Sarasota, Florida, November 2000.
- “Why the Pessimistic Induction is a Fallacy”, American Philosophical Association Pacific Division Meeting, Albuquerque NM, April 2000.
- “The Physical, the Mental and the Local”, Alabama Philosophical Society Annual Meeting, Orange Beach, Alabama, November 1998.
- “Emergent Properties and People with Really Large Heads”, Alabama Philosophical Society Annual Meeting, Auburn, Alabama, November 1997.
- “Quantum Mechanics and Naturalism: How to Take Quantum Mechanics Seriously”, British Society for the Philosophy of Science Annual Conference, Leeds, England, September 1995.
- “Classical Vagueness and Quantum Vagueness”, 10th International Congress of Logic, Methodology and Philosophy of Science, Florence, Italy, August 1995.
- “An Investigation of Hacking's Interventionism”, *Discipuli* National Graduate Conference in Philosophy, Los Angeles, California, March 1991.

INVITED PRESENTATIONS:

- Quantum indeterminacy for everyone”, Workshop on Quantum Indeterminacy, Dartmouth College, July 2019.
- “Experience and the limits of science”, Workshop: *The Blind Spot: Experience, Science, and the Search for “Truth”*, Dartmouth College, April 2019.
- “What is quantum mechanics about?” Shanxi University, October 2018.
- “Bohm’s theory and direct awareness”, Shanxi University, October 2018.
- “Discontinuous trajectories without collapse”, International Workshop on the Meaning of the Wave Function, Shanxi University, October 2018.
- “Bohmian philosophy of mind”, Sydney University, August 2018.
- “Can retrocausality explain entanglement?”, Oxford University, June 2017.
- “Quantum mechanics: Holism or Time-Symmetry?”, Cornell University, September 2016.
- “Realist and Pragmatist Interpretations of Quantum Mechanics”, Leeds University, England, June 2016.
- “Indeterminacy in Quantum Mechanics”, Dartmouth College, February 2016.
- “What’s Wrong with the Wave Function?” Online Workshop on Quantum Foundations, July 9-19, 2015.
- “Relational Holism Reconsidered”, Durham University, England, June 2015.
- “Realism as an Internal Question”, XI International Ontology Congress, San Sebastian, Spain, October 2014.
- “Retrocausal Compatibilism”, Conference on Free Will and Retrocausality in a Quantum World, Trinity College, University of Cambridge, July 2014
- “Quantum Mechanics and (Hyper-)Cartesian Doubt”, California State University, Los Angeles, May 2012.

- “Free Will and Superdeterminism”, University of Florida, March 2011.
- “Probability and Uncertainty in Many-Worlds Theories”, Rochester University, April 2009.
- “Lost in the Branches: Self-location and Many Worlds”, Oberlin College, February 2009.
- “Self-Location and Many Worlds”, St Andrews University, Scotland, April 2008; Durham University, England, April 2008.
- “Everett v. Bohm: Who’s in Denial?”, Centre for Time, University of Sydney, November 2007.
- “Retrocausality in Consistent Histories Models”, Workshop on Retrocausal Models in Quantum Mechanics, Centre for Time, University of Sydney, November 2007.
- “Lost in the Branches: Self-Location, Sleeping Beauty and Many-Worlds”, University of Sydney, October 2007; Australian National University, October 2007.
- “Realism and the Quantum Wavefunction”, Society for Realist-Antirealist Discussion, American Philosophical Association Central Division Meeting, Chicago IL, April 2007.
- “Uncertainty and Probability for Branching Selves”, Durham University, England, June 2006.
- “Many Worlds, Possibility and Branching Selves”, York University, England, June 2006.
- “Quantum Mechanics and the Prospects for Immortality”, Texas Tech University, February 2006.
- “What is Schrödinger’s Cat Made Of?”, Australian National University, August 2005.
- “Probability in Everettian Quantum Mechanics”, Rutgers-Columbia Conference in Philosophy of Science, Rutgers University, April 2005.
- “Quantum Decision Theory”, University of Arizona, December 2003; University of Maryland, April 2004.
- “Wavefunction Realism”, University of Florida Mini-conference on Metaphysical Issues in Physics, October 2001.
- “Why the Pessimistic Induction is a Fallacy”, University of Miami, October 2000.
- “The Pessimistic Induction”, University of Hong Kong, November 1999.
- “The Physical, the Mental, and People with Really Large Heads”, University of Hong Kong, January 1999.
- “Quantum Mechanics and Naturalism: How to Take Quantum Mechanics Seriously”, Texas Tech University, September 1995.
- “Classical Vagueness and Quantum Vagueness”, Joint Fall Meeting of the Texas Sections of the American Physical Society and the American Association of Physics Teachers, Lubbock, Texas, October 1995.
- “The Tails Problem”, University of California, Irvine, December 1994.
- “Does Quantum Mechanics Entail Dualism?”, Institute for Philosophy, University of Salzburg, Austria, June 1993.

RESPONSES:

Response to “Everettian Quantum Mechanics and the Principal Principle” by Chris Howard, American Philosophical Association Central Division Meeting, Chicago, Illinois, February 2014.

Response to “Popper’s Pond and David Lewis’s Thesis of an Asymmetry of Overdetermination” by Matthias Frisch, American Philosophical Association Central Division Meeting, Chicago, Illinois, April 2004.

Response to “Quantum Mechanics and Consciousness” by Michael Silberstein, American Philosophical Association Pacific Division Meeting, Berkeley, California, March 1997.
Response to “Infinity in the *Tractatus*” by Michael Wrigley, American Philosophical Association Pacific Division Meeting, San Francisco, California, October 1991.

FELLOWSHIPS AND AWARDS:

Career Enhancement Initiative Award, University of Miami, January–May 2014.
Humanities Center Faculty Fellowship, University of Miami, August 2012–May 2013.
Provost Research Award, University of Miami, May–August 2012.
NSF Scholar’s Award, “Self-locating Belief and the Many-worlds Theory of Quantum Mechanics”, August 2007–July 2008.
Visiting Scholar, Durham University, January–July 2008.
Visiting Scholar, Centre for Time, University of Sydney, July–December 2007.
Max Orovitz Summer Award in the Arts and Humanities, University of Miami, May–August 2007.
Scholarly and Creative Activities Recognition Award, College of Arts and Science, May 2007.
Visiting Fellow, Centre for Consciousness, Australian National University, June–August 2005.
Max Orovitz Summer Award in the Arts and Humanities, University of Miami, May–August 2005.
NEH Summer Stipend, “Conspiracy theories of quantum mechanics: A neglected route towards solving the measurement problem”, June–July 2004.
Max Orovitz Summer Award in the Arts and Humanities, University of Miami, May–August 2003.
Max Orovitz Summer Award in the Arts and Humanities, University of Miami, May–August 2002.
Senior Research Assistant (Course Development), University of Hong Kong, January–February 2000.
National Endowment for the Humanities stipend to attend NEH seminar “Philosophy of Experimental Inference: Induction, Reliability and Error” (director Deborah Mayo), Virginia Polytechnic University, June–July 1999.
Regents’ Dissertation Fellowship, University of California, Irvine, December 1994.
Summer Dissertation Fellowship, University of California, Irvine, May 1994.
Research Grant, Organized Research Initiative on Scientific Explanation, University of California, Irvine, March 1994.
Research Grant, Institute for Philosophy, University of Salzburg, Austria, April 1993.
Summer Research Fellowship, Focused Research Program in Public Choice, University of California, Irvine, June 1991.
Chancellor’s Fellowship, University of California, Irvine, September 1989.
Open Scholarship, Brasenose College, Oxford, September 1987.
Open Exhibition, Brasenose College, Oxford, September 1986.

COURSES TAUGHT:

Dartmouth College: *Reason and Argument; Science, Superstition, and Skepticism; Philosophy of Science; Philosophy of Time; Senior Seminar: Philosophy and the Quantum World.*
University of Miami: *Metaphysics of Time* (seminar); *Philosophy of Quantum Mechanics* (seminar); *Scientific Realism* (seminar); *Philosophy of Science* (seminar); *Probability,*

Induction and Scientific Method; Philosophy of Space and Time; Empiricism; Philosophy of Biology; Philosophy of Science; Formal Logic (graduate); Symbolic Logic (undergraduate); Introduction to Philosophy; Introduction to Philosophy and the Nature of Scientific Knowledge; Critical Thinking.

University of Hong Kong: *Philosophy of the Sciences; Philosophy and Cognitive Science* (tutor).

Texas Tech University: *Philosophy of Science; Logic; Beginning Philosophy; Introduction to Ethics; Reasoning.*

University of California, Irvine: *Problems of Philosophy.* Outstanding Teaching Assistant Award, June 1994.

GRADUATE SUPERVISION:

Robin Neiman (Ph.D., Philosophy, chair), University of Miami, in progress.

Nihel Jhou (Ph.D., Philosophy, chair), University of Miami, May 2017.

Negin Arhami, “Automated Theorem Proving by Translation to Description Logic” (Ph.D., Computer Science, committee member), University of Miami, November 2015.

Negin Arhami, “The Efficiency of Automated Theorem Proving” (M.S., Computer Science, committee member), University of Miami, April 2014.

Peter Riggs, “Conceptual problems in the causal theory of quantum mechanics”, (PhD, Physics, external examiner), University of Adelaide, October 2007.

Weina Shen, “Automated Proofs of Relationships between Modal Logic Systems”, (M.S., Computer Science, committee member), University of Miami, August 2006.

Dan Yadgar, “On Peirce’s Existential Graphs”, (M.A., Philosophy, committee member), University of Miami, June 2004.

UNIVERSITY SERVICE:

Director of Graduate Studies, Philosophy, University of Miami, August 2012–June 2017.

Humanities Center Faculty Advisory Board, University of Miami, August 2013–2016.

University Research Council, 2010–2012. Provost’s Research Award review subcommittee (Humanities), University of Miami, Fall 2010.

Curriculum Committee, College of Arts and Sciences, University of Miami, 2005–2007.

Director of Undergraduate Studies, Philosophy Department, University of Miami, 2004–2005.

Undergraduate curriculum review committee (chair), Philosophy Department, University of Miami, 2004–2005.

Faculty advisor for Philosophy Club and Phi Sigma Tau, University of Miami, Fall 2004–2005.

Graduate admissions committee, Philosophy Department, University of Miami, 2003–2017.

Member of the Board of Examiners for the B.A. Degree, University of Hong Kong, 1999–2000.

Member of the Board of Examiners for the B.Sc. Degree, University of Hong Kong, 1999–2000.

Faculty advisor for Phi Sigma Tau (philosophy honor society), Texas Tech University, 1997–98.

PROFESSIONAL SERVICE:

Associate Editor, *British Journal for the Philosophy of Science*. August 2017-present.

Editor, Virtual Issue on Bell's Theorem, *British Journal for the Philosophy of Science*, 2018.

Program committee, British Society for the Philosophy of Science Annual Meeting, Durham (UK), July 2019.

Program committee, Philosophy of Science Association Biennial Meeting, Atlanta, November 2016.

Editorial board, *International Journal of Quantum Foundations*, *Quanta*, *Philosophy Plus Science*.

Referee for submissions to Oxford University Press, Cambridge University Press (book proposals), *Analysis*, *Australasian Journal of Philosophy*, *British Journal for the Philosophy of Science*, *Canadian Journal of Philosophy*, *Episteme*, *Erkenntnis*, *European Journal for Philosophy of Science*, *Florida Philosophical Review*, *Foundations of Physics*, *Foundations of Science*, *International Studies in the Philosophy of Science*, *Journal of Philosophy*, *Science and Law*, *Mind*, *Nous*, *Philosophy and Phenomenological Research*, *Philosophical Quarterly*, *Philosophy of Science*, *Principia*, *Quanta*, *Studies in History and Philosophy of Modern Physics*, *Synthese*, *Teorema*.

Referee for grant proposals to the National Science Foundation, Austrian Science Fund, Israel Science Foundation.