

John Byron Manchak

Logic and Philosophy of Science
University of California, Irvine

Education

Ph.D. Philosophy, University of California, Irvine, 2009
B.S. Physics, Brigham Young University, 2004
B.A. Philosophy, Brigham Young University, 2004

Current Appointment

Professor of Logic and Philosophy of Science, University
of California, Irvine, 2017-

Previous Appointments

Associate Professor of Logic and Philosophy of Science,
University of California, Irvine, 2015-2017
Associate Professor of Philosophy, University of Washington,
2013-2014
Assistant Professor of Philosophy, University of Washington,
2009-2013

Areas of Interest

Space and Time, Epistemology, Logic, Existentialism, Zen

Publications (*=peer reviewed)

21. "On the Inextendibility of Spacetime." Forthcoming
in *Philosophy of Science*.*
20. "On Gödel and the Ideality of Time." *Philosophy
of Science*. 83 (2016): 1050-1058.*
19. "Is the Universe As Large As It Can Be?" *Erkenntnis*.
81 (2016): 1341-1344.*
18. "Supertasks" (with B. Roberts). *Stanford Encyclopedia
of Philosophy* edited by E. Zalta (2016).*
17. "Time Machines" (with J. Earman and C. Wüthrich).
Stanford Encyclopedia of Philosophy edited by E. Zalta
(2016).*
16. "Epistemic 'Holes' in Spacetime." *Philosophy of
Science*. 83 (2016): 256-276.*
15. "Time (Hole?) Machines." *Studies in History and
Philosophy of Modern Physics*. 48 (2014): 124-127.*
14. "On Spacetime Singularities, Holes, and Extensions."
Philosophy of Science. 81 (2014): 1066-1076.*
13. "The Geometry of Conventionality" (with J. Weatherall).
Philosophy of Science. 81 (2014): 233-247.*

12. "Global Spacetime Structure." *The Oxford Handbook of Philosophy of Physics* edited by R. Batterman (2013). Oxford: Oxford University Press, 587-606.*
11. Essay Review of David Malament, *Topics in the Foundations of General Relativity and Newtonian Gravitation Theory*. *Philosophy of Science*. 79 (2012): 575-583.*
10. "Time Travel: Why It May Not Pay to Work Out All the Kinks." *Philosophy of Science*. 78 (2011): 1037-1045.*
9. "What is a Physically Reasonable Spacetime?" *Philosophy of Science*. 78 (2011): 410-420.*
8. "No No-Go: A Remark on Time Machines." *Studies in History and Philosophy of Modern Physics*. 42 (2011): 74-76.*
7. "On Efficient 'Time Travel' in Gödel Spacetime." *General Relativity and Gravitation*. 43 (2011): 51-60.*
6. "On the Possibility of Supertasks in General Relativity." *Foundations of Physics*. 40 (2010): 276-288.*
5. "On the Existence of 'Time Machines' in General Relativity." *Philosophy of Science*. 76 (2009): 1020-1026.*
4. "On Force in Cartesian Physics." *Philosophy of Science*. 76 (2009): 295-306.*
3. "Is Spacetime Hole-Free?" *General Relativity and Gravitation*. 41 (2009): 1639-1643.*
2. "Can We Know the Global Structure of Spacetime?" *Studies in History and Philosophy of Modern Physics*. 40 (2009): 53-56.*
1. "Is Prediction Possible in General Relativity?" *Foundations of Physics*. 38 (2008): 317-321.*

Presentations (*=invited)

40. "Some No-Hole Spacetime Properties Are Unstable." *Logic, Relativity, and Beyond*. Hungarian Academy of Sciences, Institute for Mathematics, Budapest. August 2017.* (scheduled)
39. "Time (Hole?) Machines." *The Philosophy of Howard Stein*. University of Chicago. June 2017.* (scheduled)
38. "On the Inextendibility of Spacetime." Meeting of the Philosophy of Science Association. Atlanta. November 2016.
37. "Is the Universe As Large As It Can Be?" UK and European Meeting on the Foundations of Physics, London. July 2016.
36. "Is the Universe As Large As It Can Be?" International Conference on the Nature and Ontology of Spacetime. Varna, Bulgaria. June 2016.

35. "Is the Universe As Large As It Can Be?" Philosophy of Science Seminar. Princeton University. March 2016.*
34. "Is the Universe As Large As It Can Be?" Conference in Mathematical General Relativity. Tsingha University, China. January 2016.
33. "Epistemic 'Holes' in Spacetime." Southern California Philosophy of Physics Group, Irvine. November 2015.*
32. "Epistemic 'Holes' in Spacetime." Logic, Relativity, and Beyond. Hungarian Academy of Sciences, Institute for Mathematics, Budapest. August 2015.
31. "On Gödel and the Ideality of Time" (presented by T. Barrett). Meeting of the Philosophy of Science Association. Chicago. November 2014.
30. "Time (Hole?) Machines." UC Irvine, Department of Logic and Philosophy of Science. April 2014.*
29. "The Geometry of Conventionality" (presented with J. Weatherall). UK and European Meeting on the Foundations of Physics. Munich, July 2013.
28. "Time Machines: Some Recent Work." University of Pittsburgh, Philosophy of Physics Workshop. April 2013.*
27. "The Geometry of Conventionality" (presented by J. Weatherall). University of Pittsburgh, History and Philosophy of Science Seminar. April 2013.*
26. "On Gödel and the Ideality of Time." Meeting of the American Philosophical Association, Pacific Division. San Francisco. March 2013.
25. "On Spacetime Singularities, Holes, and Extensions." Meeting of the Philosophy of Science Association. San Diego, November 2012.
24. "The Geometry of Conventionality." Hungarian Academy of Sciences, Institute for Philosophy. Budapest. September 2012.*
23. "On Spacetime Singularities, Holes, and Extensions." Logic, Relativity, and Beyond. Hungarian Academy of Sciences, Institute for Mathematics. Budapest. September 2012.*
22. "On Spacetime Singularities, Holes, and Extensions." University of Western Ontario, Physics Seminar. April 2012.*
21. "Time Machines: Some Recent Work." University of Western Ontario, Philosophy Department. April 2012.*
20. "Time Travel for Children" Paws-On Science: Husky Weekend, Pacific Science Center. Seattle. March 2012.
19. "Time Machines: Some Recent Work." University of Konstanz, Germany, Philosophy of Science Workshop. March 2012.*

18. "On Spacetime Singularities, Holes, and Extensions." Southern California Philosophy of Physics Group, Irvine. January 2012.*
17. "Time Machines: Some Recent Work." Conference on Physics and Computation, University of Turku, Finland. June 2011.*
16. "Time Travel: Why it May Not Pay to Work Out All the Kinks." Meeting of the Philosophy of Science Association. Montreal. November 2010.
15. "What is a Physically Reasonable Spacetime?" University of British Columbia, Philosophy of Science Workshop. April 2010.*
14. "What is a Physically Reasonable Spacetime?" University of Oxford, Philosophy Seminar. February 2010.*
13. "What is a Physically Reasonable Spacetime?" LARSIM Laboratory, Paris, French Atomic Energy Commission. February 2010.*
12. "What is a Physically Reasonable Spacetime?" University of Pittsburgh, Philosophy of Science Workshop. March 2009.*
11. "Can We Know the Structure of Our Universe?" University of Pittsburgh, Philosophy Department. January 2009.*
10. "Can We Know the Structure of Our Universe?" Carnegie Mellon University, Philosophy Department. January 2009.*
9. "Can We Know the Structure of Our Universe?" St. Olaf College, Philosophy Department. January 2009.*
8. "Can We Know the Structure of Our Universe?" University of Washington, Philosophy Department. January 2009.*
7. "Can We Know the Structure of Our Universe?" UC Irvine, Department of Logic and Philosophy of Science. December 2008.*
6. "On the Existence of Time Machines." Meeting of the Philosophy of Science Association. Pittsburgh. November 2008.
5. "On the Possibility of Supertasks in General Relativity." Southern California Philosophy of Physics Meeting, Irvine. May 2008.*
4. "Can We Know the Structure of Our Universe?" Florence-Irvine Logic and Philosophy of Science Conference, Irvine. March 2007.*
3. "On Efficient 'Time Travel' in Gödel Spacetime." Southern California Philosophy of Physics Group. Irvine, December 2006.*
2. "On Force in Cartesian Physics." Meeting of the Philosophy of Science Association. Vancouver. November 2006.

1. "Observational Indistinguishability and Geodesic Incompleteness."
University of Western Ontario, LMP Graduate Conference.
May 2006.

Grants, Fellowships, and Awards

Grant for "Laws, Methods, and Minds in Cosmology" (\$206,352)
with C. Smeenk and J. Weatherall, John Templeton Foundation,
2016.

Distinguished Teaching Award, University of Washington,
2013.

Order of Merit: Outstanding Scholarship, University of
California, Irvine, 2009.

Justine Lambert Prize, University of California, Irvine,
2009.

Regents Dissertation Fellowship, University of California,
Irvine, 2008.

Quantum Foundations Summer Fellowship, Perimeter Institute,
2007.

Robert Clifton Memorial Prize, University of Western Ontario,
2006.

Teaching Experience

University of California, Irvine: Introduction to Logic
(2008), Global Spacetime Structure (2015), Introduction
to Philosophy of Science (2015, 2017), What is Space?
(2015, 2016), Introduction to Zen (2015), Geometry and
Spacetime (2016), Existentialism (2016), Science and Religion
(2017).

University of Washington: Probability and Induction (2012,
2013, 2014), Decision Theory (2011, 2011), Philosophy
of Science (2010, 2010, 2012, 2013, 2014), Introduction
to Logic (2010, 2010, 2011, 2013, 2013), Philosophy of
Space and Time (2009, 2011, 2013), Set Theory (2012),
Puzzles and Paradoxes (2013), Introduction to Zen (2014),
Existentialism (2014).

Brigham Young University: Introduction to Russian (2000,
2001, 2001, 2002)

Professional Service

Referee/Reviewer: American Mathematical Society, *Analytic
Philosophy*, *British Journal for the Philosophy of Science*,
Dialectica, *Erkenntnis*, *European Journal for Philosophy
of Science*, *Foundations of Science*, *General Relativity
and Gravitation*, *Gravitation and Cosmology*, *International
Journal of Theoretical Physics*, *International Studies
in the Philosophy of Science*, *Journal of Optimization
Theory*, *Journal of Philosophical Research*, National Science

Foundation, Oxford University Press, *Philosophia Mathematica*,
Philosophy of Science, Philosophy of Science Association,
Studies in History and Philosophy of Modern Physics, *Synthese*,
Theoria

Program Committee Member: 23rd Meeting of the Philosophy
of Science Association, San Diego (2012), 17th UK and
European Meeting on the Foundations of Physics, Munich
(2013), 2nd Meeting on Logic, Relativity, and Beyond,
Budapest (2015), 18th UK and European Meeting on the Foundations
of Physics, London (2016), 3rd Meeting on Logic, Relativity,
and Beyond, Budapest (2017).