

DAVID JOHN BAKER

CURRICULUM VITAE

Department of Philosophy
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APPOINTMENTS

Assistant Professor of Philosophy, University of Michigan, Fall 2008-present.

EDUCATION

PhD. in Philosophy, Princeton University, September 2008. Advisor: Hans Halvorson.
B.S. in Philosophy (with Highest Honors) and Physics, University of Michigan, April 2003.

AREAS OF SPECIALIZATION

Philosophy of Physics, Philosophy of Science.

AREAS OF COMPETENCE

Moral Philosophy, Logic, Philosophy of Religion, Early Modern Philosophy, Metaphysics, Epistemology.

PUBLICATIONS

- “Broken Symmetry and Spacetime.” Forthcoming in *Philosophy of Science*.
- “‘The Experience of Left and Right’ Meets the Physics of Left and Right.” Forthcoming in *Nous*.
- “Symmetry and the Metaphysics of Physics.” Forthcoming in *Philosophy Compass*.
- “Antimatter,” with Hans Halvorson. *The British Journal for the Philosophy of Science* 61 (2010): 93-121.
- “Against Field Interpretations of Quantum Field Theory.” *The British Journal for the Philosophy of Science* 60 (2009): 585-609. (Winner of the 2010 Cushing Prize.)
- “Measurement outcomes and probability in Everettian quantum mechanics.” *Studies in History and Philosophy of Modern Physics* 38 (2007): 153-169.
- “Spacetime Substantivalism and Einstein’s Cosmological Constant.” *Philosophy of Science (Proceedings)* 72 (2005): 1299-1311.
- “Review of Richard Healey, *Gauging What’s Real*.” *Mind* 119 (2010): 490-494

PRESENTATIONS

“Broken Symmetry and Spacetime,” invited talk to the Laboratoire des Recherches sur les Sciences de la Matière, Saclay (France), June 2010.

- “Physics, Philosophy and the Cosmological Constant,” with Aaron Pierce, Telluride Lecture, University of Michigan, February 2010.
- “The Philosophy of Quantum Field Theory,” invited talk to the Department of Philosophy, University of Illinois-Chicago, May 2009.
- “Broken Symmetry and Spacetime,” Philosophy of Quantum Field Theory Workshop, University of Western Ontario, April 2009.
- “Antimatter Without Antiparticles,” invited talk to the Department of Logic and Philosophy of Science, University of California-Irvine, January 2009.
- “Against Field Interpretations of Quantum Field Theory,” job talk at Cornell University, New York University, Ohio State University, University of Michigan, University of South Carolina and University of Wisconsin, January-February 2008.
- “Observability and Causal Connectability,” invited talk to the Department of Philosophy, Stony Brook University, May 2007.
- “Quantum Electromagnetism: A Theory With No Potential?” invited talk to the Mathematics Club, Stony Brook University, May 2007.
- “The Everettian Fuzzy Link,” invited talk to the Committee for Philosophy and the Sciences, University of Maryland at College Park, April 2007.
- “Measurement Outcomes and Probability in Everettian Quantum Mechanics,” graduate seminar in Interpretations of Quantum Mechanics, University of Pittsburgh, April 2006.
- “Spacetime Substantivalism and Einstein’s Cosmological Constant,” 19th Biennial Meeting of the Philosophy of Science Association (PSA 2004). Austin, Texas, November 2004.
- “Lingering Problems With Probability in Many-Worlds Quantum Mechanics,” Logic, Math and Physics Graduate Conference. University of Western Ontario, May 2004. (Winner of the 2004 Clifton Prize.)

TEACHING

Courses Taught

- Graduate Seminar (Mirror Symmetry, Time Reversal and Charge) – Michigan, Winter 2011.
- Graduate Proseminar – Michigan, Fall 2010.
- Freshman Seminar in Science Fiction and Philosophy – Michigan, Fall 2009, Winter 2010.
- Introduction to Philosophy of Religion – Michigan, Winter 2009, Fall 2010.
- Honors Introduction to Logic – Michigan, Fall 2008, Winter 2009, Fall 2009.
- Graduate Seminar (Many-Worlds Quantum Mechanics) – Michigan, Fall 2008.

Teaching Assistantships

- Systematic Ethics (Metaethics) – Princeton, Spring 2006.
- Introduction to Modern Philosophy – Princeton, Spring 2005.
- Normative Ethics – Princeton, Fall 2004.

AWARDS AND FELLOWSHIPS

- James T. Cushing Memorial Prize in the History and Philosophy of Physics, Notre Dame University, 2010.
- Denise Fellowship, University of Michigan, 2008-present.

Mrs. Giles Whiting Foundation Honorific Fellowship in the Humanities, 2007-2008.
 National Science Foundation (NSF) Graduate Research Fellowship, 2004-2007.
 Princeton University Prize Fellowship, 2005-2007.
 Robert Clifton Memorial Book Prize in the philosophy of physics, University of Western Ontario, 2004.
 Princeton University Fellowship, 2003-2004.
 William K. Frankena Prize for excellence in the Philosophy concentration, University of Michigan, 2003.
 Elsa L. Haller Prize for best undergraduate philosophy paper, University of Michigan, Spring 2003.
 Elsa L. Haller Prize, University of Michigan, Fall 2002.
 NSF Research Experience for Undergraduates grant in high-energy physics, Fermilab/University of Michigan, Summer 2001.

PROFESSIONAL SERVICE AND AFFILIATIONS

Peer referee for National Science Foundation Science and Technology Studies program, John Templeton Foundation, *Philosophy of Science* (twice), *Foundations of Physics* (3 times), *Journal for General Philosophy of Science*, *Dialectica*, *Synthese*, *Philosophers' Imprint*, *British Journal for the Philosophy of Science* (5 times), and *Studies in History and Philosophy of Modern Physics* (3 times).
 Member, graduate student instructor training committee, Michigan, 2009-2010.
 Member and advisor, undergraduate studies committee, Michigan, 2008-present.
 Member, junior search committee, Michigan, 2008-2009 and 2010-2011.
 Member, Michigan Center for Theoretical Physics, 2008-present.
 Faculty advisor, Phi Sigma Tau philosophy honor society (Michigan chapter), 2009-present.
 Faculty advisor, *Meteorite* undergraduate journal, 2009-present.

NOVEMBER 2010