

Jeffrey Alan Barrett
Logic and Philosophy of Science
University of California, Irvine
Irvine, CA 92697-5100
j.barrett@uci.edu

15 August 2011

Education

1992	Ph.D. with Distinction	Philosophy, Columbia University
1991	M.Phil.	Philosophy, Columbia University
1991	M.A.	Philosophy, Columbia University
1986	B.A.	Physics, Brigham Young University

Employment

2004-present	Professor, Logic and Philosophy of Science, UC Irvine
1998-2004	Associate Professor, Logic and Philosophy of Science, UC Irvine
1998	Associate Professor, Philosophy, UC Irvine
1992-98	Assistant Professor, Philosophy, UC Irvine
1990-92	Lecturer, Columbia College, Columbia University

Areas of Specialization

Philosophy of Physics, Philosophy of Science, Epistemology, Game Theory, and Logic

Areas of Competence

History of Pragmatism and Empiricism and Philosophy of Mathematics

Books and Anthologies

- *B4. Barrett, J. A. and P. Byrne (2011) *The Everett Interpretation of Quantum Mechanics: Collected Works and Commentary 1955–1980*, Princeton University Press.
- B3. Barrett, J. A. and J. Alexander, eds. (2002) *PSA 2000 Volume II*, Selected papers from symposium paper sessions of the Philosophy of Science Association meeting in Vancouver, Canada 2-4 November 2000. University of Chicago Press: Chicago.
- B2. Barrett, J. A. and J. Alexander, eds. (2001) *PSA 2000 Volume I*, Selected papers from contributed paper sessions of the Philosophy of Science Association meeting in Vancouver, Canada 2-4 November 2000. University of Chicago Press: Chicago.
- B1. Barrett, J. A. (1999) *The Quantum Mechanics of Minds and Worlds*, Oxford University Press: Oxford.

Edited Archive

- *E1. Barrett, J. A., P. Byrne, J. Weatherall (eds) (2011) *Hugh Everett III Manuscripts*. UCISpace @ the Libraries. Permanent url: <http://hdl.handle.net/10575/1060>.

This archive contains an edited collection of 230 scanned original documents and audio recordings related to Hugh Everett III (November 11, 1930 – July 19, 1982), the American physicist who first proposed what has come to be known as the many-worlds interpretation (MWI) of quantum physics. These documents include draft and final versions of Everett's long and short Ph.D. theses and the early notes that led to these published works, Everett's correspondence regarding his relative state formulation of pure wave mechanics, and miscellaneous biographical material. Most of these documents were discovered in the basement of Mark Everett, Hugh Everett III's son, in Los Feliz, California and are published in this archive for the first time. This archive is a companion to the volume Barrett and Byrne (2011) *The Everett Interpretation of Quantum Mechanics: Collected Works and Commentary 1955–1980*, Princeton University Press.

Journal Articles

- *A29. Barrett, J. A. (2011) "Everett's Pure Wave Mechanics and the Notion of Worlds," *European Journal for Philosophy of Science* 1 (2):277-302. doi: 10.1007/s13194-011-0023-9.
- *A28. Barrett, J. A. (2011) "On the Faithful Interpretation of Pure Wave Mechanics," *British Journal for the Philosophy of Science*. First published online June 10, 2011 doi: 10.1093/bjps/axr004.

- *A27. Barrett, J. A. (2010) "A Structural Interpretation of Pure Wave Mechanics," *Humana.Mente* 13: 225-236.
- A26. Barrett, J. A. and W. Aitken (2010) "A Note on the Physical Possibility of Ordinal Computation," *British Journal for the Philosophy of Science* 61(4): 867-874.
- A25. Barrett, J. A. and K. Zollman (2009) "The Role of Forgetting in the Evolution and Learning of Language," *Journal of Experimental and Theoretical Artificial Intelligence* 21(4): 293-309.
- A24. Barrett, J. A. (2010) "Faithful Description and the Incommensurability of Evolved Languages," *Philosophical Studies* 147: 123-137.
- A23. Barrett, J. A. (2008) "Approximate Truth and Descriptive Nesting," *Erkenntnis* 68: 213-24.
- A22. Barrett, J. A. (2008) "Wigner's Friend and Bell's Field Beables," *Electronic Journal of Theoretical Physics*.
- A21. Barrett, J. A. (2007) "Dynamic Partitioning and the Conventionality of Kinds," *Philosophy of Science* 74: 527-46.
- A20. Aitken W. and J. A. Barrett (2007) "Abstraction in Algorithmic Logic," *Journal of Philosophical Logic* 37: 23-43.
- A19. Barrett, J. A. (2007) "The Evolution of Coding in Signaling Games," forthcoming in *Theory and Decision*. Online First Springer Link: <http://www.springerlink.com/content/mw21n3h118204g4x/>
- A18. Aitken W. and J. A. Barrett (2007) "Stability and Paradox in Algorithmic Logic," *Journal of Philosophical Logic*, 36(1): 61-95.
- A17. Barrett, J. A. (2006) "A Quantum-Mechanical Argument for Mind-Body Dualism," *Erkenntnis*, 65(1): 97-115.
- A16. Barrett, J. A. (2005) "Relativistic Quantum Mechanics Through Frame-Dependent Constructions," *Philosophy of Science*. 72: 802-813.
- A15. Barrett, J. A. (2005) "The Preferred Basis Problem and the Quantum Mechanics of Everything," *British Journal for the Philosophy of Science*. 56(2): 199-220.
- A14. Aitken W. and J. A. Barrett (2004) "Computer Implication and the Curry Paradox," *Journal of Philosophical Logic*. 33(6): 631-637.

- A13. Barrett, J. A. (2003) "Are Our Best Physical Theories Probably and/or Approximately True?" *Philosophy of Science*. 70(5): 1206-1218.
- A12. Barrett, J. A. and F. Arntzenius (2002) "Why the Infinite Decision Puzzle is Puzzling," *Theory and Decision* 52(2): 139-147.
- A11. Barrett, J. A. (2000) "The Persistence of Memory: Surreal Trajectories in Bohm's Theory," *Philosophy of Science* 67(4): 680-703.
- A10. Barrett, J. A. and F. Arntzenius (1998) "An Infinite Decision Puzzle," *Theory and Decision* 46(1): 101-103.
- A9. Barrett, J. A. (1998) "On the Nature of Experience in the Bare Theory," *Synthese* 113(3): 347-55.
- A8. Barrett, J. A. (1997) "On Everett's Formulation of Quantum Mechanics," *The Monist* 80(1): 70-96.
- A7. Barrett, J. A. (1996) "Oracles, Aesthetics, and Bayesian Consensus," *Philosophy of Science*, 63(3): 273-280.
- A6. Barrett, J. A. (1996) "Empirical Adequacy and the Availability of Reliable Records in Quantum Mechanics," *Philosophy of Science*, 63(1): 49-64.
- A5. Barrett, J. A. (1995) "The Single-Mind and Many-Minds Versions of Quantum Mechanics," *Erkenntnis* 42: 89-105.
- A4. Barrett, J. A. (1995) "The Distribution Postulate in Bohm's Theory," *Topoi*, 14(1): 45-54.
- A3. Barrett, J. A. and D. Z. Albert (1995) "On What It Takes to Be a World," *Topoi*, 14(1): 35- 37.
- A2. Barrett, J. A. (1995) "Quantum Mechanics and the Measurement Problem," *Topoi*, 14(1): 1-6.
- A1. Barrett, J. A. (1994) "The Suggestive Properties of the Bare Theory of Quantum Mechanics," *Erkenntnis* 41: 233-252.

Book Chapters and Other Articles

- *BC12. Barrett, J. A. (2011) "On the Coevolution of Theory and Language and the Nature of Successful Inquiry" Forthcoming in *Stanford Workshop on Evolutionary Game Theory*.

- BC11. Barrett, J. A. (2008) "Everett's Relative-State Formulation of Quantum Mechanics," *The Stanford Encyclopedia of Philosophy*. Rewritten and expanded. <http://plato.stanford.edu/entries/qm-everett/>.
- BC10. Barrett, J. A. (2007) "The Many Worlds Interpretation of Quantum Mechanics," forthcoming in the *Springer Encyclopedia of Physics*.
- BC9. Barrett, J. A. (2007) "The Ithaca Interpretation of Quantum Mechanics," forthcoming in the *Springer Encyclopedia of Physics*.
- BC8. Barrett, J. A. (2006) "Numerical Simulations of the Lewis Signaling Game: Learning Strategies, Pooling Equilibria, and the Evolution of Grammar," *Institute for Mathematical Behavioral Sciences*. Paper 54. <http://repositories.cdlib.org/imbs/54>
- BC7. Barrett, J. A. and P. K. Stanford (2006) "Prediction," *The Philosophy of Science: An Encyclopedia*, Routledge.
- BC6. Barrett, J. A. (2005) "Bohm, David Joseph," *Dictionary of American Philosophers*, Thoemmes Continuum Press.
- BC5. Barrett, J. A. (2004) "Many-Worlds and Many-Minds Formulations of Quantum Mechanics," *Encyclopedia of Philosophy*, Macmillan Reference USA.
- BC4. Barrett, J. A. (2004) "Everett's Relative-State Formulation of Quantum Mechanics," *The Stanford Encyclopedia of Philosophy* (first revised version).
- BC3. Barrett, J. A. (2002) "The Nature of Measurement Records in Relativistic Quantum Field Theory," in M. Kuhlman, H. Lyre, and A. Wayne (eds.), *Ontological Aspects of Quantum Field Theory*, World Scientific, Singapore (2002).
- BC2. Barrett, J. A. (1999) "Everett's Relative-State Formulation of Quantum Mechanics," *The Stanford Encyclopedia of Philosophy* (original archived version).
- BC1. Barrett, J. A. (1998) "The Bare Theory and How to Fix It," in *The Modal Interpretation of Quantum Mechanics*, D. G. B. J. Dieks and P. E. Vermaas (eds), Kluwer Academic Press (1998).

Book Reviews

- R9. Review of *Scientific Representation: Paradoxes of Perspective*, by Bas C. van Fraassen, Oxford University Press (2009) *The Journal of Philosophy* 106(11).
- R8. Review of *Beyond Measure: Modern Physics, Philosophy and the Meaning of Quantum Theory*, by Jim Baggott, Oxford University Press (2004) in *Metascience* 15:279-282 (2006).
- R7. Review of *The Strange World of Quantum Mechanics*, by Daniel F. Styer, Cambridge University Press (2000) in *British Journal for the Philosophy of Science* 52(2): 393-396, 2001 Jun.
- R6. Review of *Philosophical Concepts in Physics*, by James T. Cushing, Cambridge University Press (1998) in *Isis: Official Journal of the History of Science Society* 91(4): 839-840, 2000 Dec.
- R5. Review of *Quantum Chance and Nonlocality*, by Michael Dickson, Cambridge University Press; in *Foundations of Physics* 29 (6): 1011-18 (1999).
- R4. Review of *Interpreting the Quantum World*, by Jeffrey Bub, Cambridge University Press (1997) in *Isis: Official Journal of the History of Science Society* 91(1): 188 (2000).
- R3. Review of *How to Prove It. A Structured Approach*, by Daniel J. Velleman, Cambridge University Press in *Journal of Symbolic Logic* 60: 1329-30 (1995).
- R2. Review of *The Broken Dice*, by Ivar Ekeland, University of Chicago Press in *Philosophia Mathematica* 3(3): 310-13 (1995).
- R1. Review of *The Mind Matters: Consciousness and Choice in a Quantum World*, by David Hodgson, Oxford University Press in *Philosophical Review* 103 (2): 350-53 (1994).

Selected Recent Presentations

- *May 2010 “Sender-Predictor Games and the Coevolution of Theory and Language”
Stanford University Game Theory Workshop
- *Nov 2009 “On the Coevolution of Theory and Language” University of Minnesota
Department of Philosophy Colloquium.
- *Nov 2009 “Truth in Algorithmic Logic” University of Minnesota Logic and
Philosophy of Mathematics Group.
- *Nov 2009 “Supertasks and Transfinite Ordinals” University of Minnesota Logic
and Philosophy of Mathematics Group.

- April 2009 “Very fast computers,” *UCSD Philosophy of Science Workshop*, James Reserve, Idyllwild.
- April 2009 “Measurement and particle interactions in field theory,” *Minnesota Center for Philosophy of Science*, University of Minnesota, Minnesota.
- April 2009 “Quantum mechanics, Wigner, and the temptation of dualism,” *Center for Language and Information*, Stanford University, Palo Alto.
- April 2009 “The coevolution of theory and language,” American Philosophical Association, Western Division Meeting, Vancouver.
- March 2009 “On the physical possibility of ordinal computation,” Conference on Unorthodox Computation, Cambridge University, Cambridge.
- March 2008 “Comments on *The Metaphysics within Physics*” American Philosophical Association, Western Division Meeting, Pasadena.

Recent Professional Service

- 2009-present Editor-in-Chief, *Philosophy of Science*.
- 2008-9 Member of the Program Committee for the 2009 meeting of the European Philosophy of Science Association in Amsterdam, Netherlands.
- 2007-present Editorial Board, Blackwell *Philosophy Compass*.
- 2004-5 Chair of the Nominating Committee for the Philosophy of Science Association.
- 2003-4 Member of the Program Committee for the APA Western Division Meeting. Organized two invited sessions, refereed contributed papers in general philosophy of science, and chaired one session.
- 1998-2000 Chair of the Program Committee for the Biennial Philosophy of Science Association Meeting in Vancouver, Canada 2-4 November 2000.

Reviewed journal articles for: **Philosophy of Science*, **British Journal for the Philosophy of Science*, **Erkenntnis*, *Physical Review*, *Foundations of Physics*, *Journal of Symbolic Logic*, *Topoi*, *Synthese*, *Notre Dame Journal of Formal Logic*, *Journal of Philosophical Logic*, *Studies in the History and Philosophy of Science*, *Journal of Biomedical Optics*, *International Studies in the Philosophy of Science*, *Consciousness and*

*Cognition, Theory and Decision, American Journal of Physics, Philosophical Imprints, *European Journal for the Philosophy of Science, *Philosophy Compass, and *Studies in the History and Philosophy of Modern Physics.*

Editorial board of Blackwell *Philosophy Compass*. Guest editor for issues of *Philosophy of Science, Erkenntnis*, and *Topoi*. Editor-in-Chief, *Philosophy of Science* (2009-present).

Reviewed book manuscripts for Oxford University Press, Cambridge University Press, Broadview Press, SUNY Press, and Princeton University Press.

Selected Fellowships, Grants, and Awards

*UC Irvine Chancellor's Fellow 2010-12.

NSF Grant *Everett Papers Archive and Commentary*, \$160k, 2009-2010.

University of California President's Faculty Research Fellowship 1996-7.

University of Pittsburgh Center for Philosophy of Science Fellow 1996-7.

University Service

2009-present Chair, UC Irvine Department of Logic and Philosophy of Science

2003-present UC Irvine Campus Honors Program Faculty

2008-2009 Member of the Council on Academic Personnel (CAP) UC Irvine.

2008-2009 Acting LPS Graduate Recruitment Officer, Department of Logic and Philosophy of Science

2007-2009 Director of Undergraduate Studies, Department of Logic and Philosophy of Science

2001-2007 Chair, UC Irvine Department of Logic and Philosophy of Science

1999-2002 Member of UC Irvine Council on Educational Policy (CEP)

1999-2001 UC Irvine Director for the UCI/UCSD Joint Research Program in the Philosophy of Science

1999-2001 Director of Undergraduate Studies for Logic and Philosophy of Science

- 2000 Acting Chair of UC Irvine Department of Logic and Philosophy of Sciences
- 2000-present Social Science Honors Course Lecturer, UC Irvine Campuswide Honors Program
- 1999-2000 Director of Undergraduate and Graduate Studies in Logic and Philosophy of Science
- 1998 Member of UC Irvine Humanities Executive Committee
- 1997-98 Acting Director for UC Irvine Program in the History and Philosophy of Science
- 1994-96 Director of Graduate Studies for UC Irvine Department of Philosophy
- 1994-96 Member and Chair (1995-96) of the Computer Policy Committee for the School of Humanities
- 1994-95 Member of the UC Irvine Committee for Teaching Quality
- 1993-95 Humanities Core Course Lecturer

Graduate Proposal and Dissertation Committees and Undergraduate Research

Served on UC Irvine Ph.D. dissertation or advancement committees in Logic and Philosophy of Science, Philosophy, Economics, Physics, Chemistry, Biological Sciences, Computer and Information Science, English and Comparative Literature, Comparative Literature, East Asian, and Anthropology. Also served on a University of Illinois, Chicago Circle Ph.D. dissertation committee in Philosophy.

Served as undergraduate CHP honors thesis advisor, UROP faculty sponsor, SURF faculty sponsor.

Affiliations

- 1997-present Member of UC Irvine Institute for Mathematical Behavioral Sciences
- 1992-present Member of American Philosophical Association
- 1992-present Member of the Philosophy of Science Association