

Curriculum Vitae

David B. Malament

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Education

Columbia College, B.A. 1968 (major: mathematics)

Rockefeller University, Ph.D. 1975 (philosophy)

Principal Academic Honors and Fellowships

Graduate

Woodrow Wilson Fellowship

Fullbright Fellowship at the Free University of Berlin (1968 - 1969)

Postgraduate

N.S.F. Research Fellowship (1979 - 1980)

Whitehead Lecturer at Harvard (Fall 1980)

Fellow at the Center for the Philosophy of Science, University of Pittsburgh (Fall 1983)

N.S.F. Research Fellowship (1986 - 1987)

Fellow at the Center for Advanced Study in the Behavioral Sciences, Palo Alto (1989 - 1990)

Quantrell Award for Excellence in Undergraduate Teaching at the U of Chicago (June 1991)

Elected to the American Academy of Arts and Sciences (Spring 1992)

Lakatos Prize for *Topics in the Foundations of General Relativity and Newtonian Gravitation Theory* (2014)

University Appointments

Assistant Professor of Philosophy at the University of Chicago (Fall 1975 - Spring 1978)

Visiting Assistant Professor of Philosophy at Princeton University (Spring 1977)

Associate Professor of Philosophy at the University of Chicago (Fall 1978 - Fall 1982)

Professor of Philosophy at the University of Chicago (Fall 1982 - Fall 1989)

David B. and Clara E. Stern Professor at the University of Chicago (Fall 1989 - Spring 1999)

Chair of the Committee on the Conceptual Foundations of Science at the University of Chicago
(Fall 1995 - Spring 1998)

Visiting Professor of Philosophy at Carnegie-Mellon University (Fall 1998)

Distinguished Professor of Logic and Philosophy of Science, UC Irvine (Fall 1999 - Spring 2012)

Dissertations Supervised (and Co-Supervised) at the University of Chicago

Roger Jones (1976)

Jon Jarrett (1983)

Robert DiSalle (1988)

Richard Bradley (1997)

Jim Guszczka (2000)

Erik Curiel (2005)

Dissertations Supervised at the UC Irvine

John Manchak (2009)

Jim Weatherall (2012)

Major Professional Service

Governing Board of the Philosophy of Science Association (1988 - 1989, 2000 - 2001)

Editorial Board, *Studies in the History and Philosophy of Modern Physics* (1995 - 2001)

Visiting Committee for the Department of Philosophy, Harvard University (Winter 1987, Fall 1989)

Visiting Committee for the Department of Philosophy, University of Pittsburgh (Spring 1987)

Visiting Committee for the Department of Philosophy, McGill University (Fall 1992)

Chair of the Committee on the Conceptual Foundations of Science at the University of Chicago
(Fall 1995 - Spring 1998)

Publications

Books

(editor) *Reading Natural Philosophy (Essays Dedicated to Howard Stein on His 70th Birthday)*,
Open Court Press, 2002

Topics in the Foundations of General Relativity and Newtonian Gravitation Theory, University of
Chicago Press, 2012

Articles

- (1) "Selective Conscientious Objection and the Gillette Decision," *Philosophy and Public Affairs*, vol. 1, no. 4, 1972; reprinted in Cohen, M., Nagel, T., and Scanlon, T. (eds.), *War and Moral Responsibility* Princeton University Press, 1974.
- (2) Review of *Space, Time, and Spacetime* by Lawrence Sklar, *The Journal of Philosophy*, vol. LXII, no. 11, 1976.
- (3) "Observationally Indistinguishable Spacetimes," in Earman, J., Glymour, C., Stachel, J. (eds.), *Foundations of Space-Time Theories*, University of Minnesota Press, 1977.
- (4) "The Class of Continuous Timelike Curves Determines the Topology of Spacetime," *The Journal of Mathematical Physics*, vol. 18, no. 7, 1977.
- (5) "Causal Theories of Time and the Conventionality of Simultaneity," *Noûs*, vol. 11, no. 3, 1977.
- (6) (with Sandy Zabell) "Why Gibbs Phase Averages Work – The Role of Ergodic Theory," *Philosophy of Science*, vol. 47, no. 3, 1980.
- (7) Review of *Science Without Numbers* by Hartry Field, *The Journal of Philosophy*, vol. LXXIX, no. 9, 1982; reprinted in Resnik, M. (ed.) *Mathematical Objects and Mathematical Knowledge* in the *International Research Library of Philosophy*, Dartmouth Publishing Co., 1995.
- (8) "Minimal Acceleration Requirements for 'Time Travel' in Gödel Spacetime," *The Journal of Mathematical Physics*, vol. 26, no. 4, 1985.

- (9) “A Modest Remark on Reichenbach, Rotation, and General Relativity,” *Philosophy of Science*, vol. 52, no. 4, 1985; reprinted in Butterfield, J., Hogarth, M., and Belot, G. (eds.) *Spacetime in the International Research Library of Philosophy*, Dartmouth Publishing Co., 1996.
- (10) “Newtonian Gravity, Limits, and the Geometry of Space,” in Colodny, R. (ed.), *From Quarks to Quasars*, University of Pittsburgh Press, 1986.
- (11) “Gravity and Spatial Geometry,” in Marcus, R. *et al* (eds.) *Logic, Methodology and Philosophy of Science VII* (proceedings of the 1983 Salzburg Congress), Elsevier Science Publishers, 1986.
- (12) “Time Travel in the Gödel Universe,” *PSA 1984*, vol. 2 (proceedings of the Philosophy of Science Association meetings, Chicago, 1984), 1986.
- (13) “A Note About Closed Timelike Curves in Gödel Spacetime,” *The Journal of Mathematical Physics*, vol. 28, no. 10, 1987.
- (14) “Critical Notice: Quantum Probability – Quantum Logic,” *Philosophy of Science*, vol. 59, no. 2, 1992.
- (15) Introductory essay to a previously unpublished lecture by Kurt Gödel on “Rotating Universes” in volume III of *Gödel, Kurt, Collected Works*, ed. S. Feferman *et al*, Oxford University Press, 1995.
- (16) “Is Newtonian Cosmology Really Inconsistent?,” *Philosophy of Science*, vol. 62, no. 4, 1995.
- (17) “In Defense of Dogma – Why There Cannot Be a Relativistic Quantum Mechanical Theory of (Localizable) Particles,” in Clifton, R. (ed.), *Perspectives on Quantum Reality*, Kluwer, 1996.
- (18) “A No-Go Theorem About Rotation in Relativity Theory,” in Malament, D. (ed.), *Reading Natural Philosophy (Essays Dedicated to Howard Stein on His 70th Birthday)*, Open Court Press, Chicago, 2002.
- (19) “On Relative Orbital Rotation in General Relativity,” in Ashtekar, A. (ed.), *Revisiting the Foundations of Relativistic Physics: A Festschrift for John Stachel*, Kluwer, 2003.
- (20) “On the Time Reversal Invariance of Classical Electromagnetic Theory,” *Studies in the History and Philosophy of Modern Physics*, vol. 35, no. 2, 2004.
- (21) “Classical General Relativity,” in Butterfield, J. and Earman, J. (eds.), *Handbook of the Philosophy of Science. Volume 2: Philosophy of Physics*, Elsevier, 2006.
- (22) “Norton’s Slippery Slope,” *Philosophy of Science*, vol. 75, no. 4, 2008.
- (23) “Note on Carnap’s ‘On the Dependence of the Properties of Space Upon Those of Time,’ ” an introductory note to Carnap’s essay in *Collected Works of Rudolf Carnap, Volume 1: Early Writings*, eds. A. W. Carus *et al*, Open Court Press, 2019.

- (24) “A Remark About the ‘Geodesic Principle’ in General Relativity,” in Frappier, M., Brown, D., and DiSalle, R. (eds.), *Analysis and Interpretation in the Exact Sciences: Essays in Honor of William Demopoulos*, Springer Verlag, 2012.

Invited Lectures (starting in 1994)

- (1) Conference on Relativistic Quantum Mechanics at the University of Western Ontario, Fall 1994, “In Defense of Dogma – Why There Cannot Be a Relativistic Quantum Mechanical Theory of (Localizable) Particles”
- (2) University of Florence, Center for the History and Philosophy of Science, Fall 1994, “In Defense of Dogma – Why There Cannot Be a Relativistic Quantum Mechanical Theory of (Localizable) Particles”
- (3) Conference to honor Clark Glymour at Carnegie Mellon University, Spring 1995, “In Defense of Dogma – Why There Cannot Be a Relativistic Quantum Mechanical Theory of (Localizable) Particles”
- (4) Center for the Philosophy of the Natural and Social Sciences, The London School of Economics and Political Science (three lectures), Spring 1995.
 - (a) “Is Newtonian Cosmology Really Inconsistent?”
 - (b) “In Defense of Dogma – Why There Cannot be a Relativistic Quantum Mechanical Theory of (Localizable) Particles”
 - (c) “On the Geometry of Time Travel in Gödel’s Universe”
- (5) Sigma Club Conference at Cambridge University (UK), Spring 1995, “Is Newtonian Cosmology Really Inconsistent?”
- (6) Department of Physics Colloquium, University of Chicago, November 30, 1995, “Is Newtonian Cosmology Really Inconsistent?”
- (7) Department of Mathematics Colloquium, University of Chicago, February 2, 1996, “On Time Travel in Gödel’s Universe”
- (8) Workshop on the History and Philosophy of Science, University of Chicago, February 23, 1996, “A Remark About Relative Rotation in General Relativity”
- (9) Conference on “Fundamental Problems in Relativity and Cosmology” at the University of Western Ontario, March 30, 1996, “A Remark About Relative Rotation in General Relativity”
- (10) Symposium on “The Philosophy of Abner Shimony,” Western Division meetings of the American Philosophical Association, April 26, 1996, “Hidden Variable Theories and ‘Quantum Probability’ ”
- (11) Center for the Philosophy of the Natural and Social Sciences, The London School of Economics and Political Science, June 18, 1996, “Hidden Variable Theories and ‘Quantum Probability’ ”

- (12) Conference at the UC Irvine on the “Philosophy of Applied Mathematics,” March 5 - 8, 1998, “How to Think About Rotation: From Physical Intuition to Mathematical Representation and Back Again”
- (13) Conference at the University of Western Ontario, April 1998, “Yet More About Rotation in General Relativity”
- (14) Center for the Philosophy of the Natural and Social Sciences, The London School of Economics and Political Science, June 25, 1998, “Two Senses of Rotation in General Relativity”
- (15) Philosophy of Physics Seminar, Oxford University, June 26, 1998, “Two Senses of Rotation in General Relativity”
- (16) UC San Diego, Philosophy Department colloquium, October 2, 1998, “A Remark About Rotation and Relative Rotation in General Relativity”
- (17) University of Pittsburgh and Carnegie Mellon Universities, Joint Colloquium of the two Physics Departments, October 12, 1998, “On the Geometry of ‘Time Travel’ in Gödel’s Universe”
- (18) UC Irvine, Joint Colloquium of the Mathematics and Physics Departments, October 30, 1998, “On the Geometry of ‘Time Travel’ in Gödel’s Universe”
- (19) UCLA, Philosophy Department colloquium, January 29, 1999, “A Remark About Rotation and Relative Rotation in General Relativity”
- (20) Keynote Speaker for the Graduate Student Conference in Logic and Philosophy of Science at Carnegie Mellon University, March 6, 1999, “A Remark About Rotation and Relative Rotation in General Relativity”
- (21) Southern California Philosophy Conference at UC Irvine, October 30, 1999, “A Remark About Rotation and Relative Rotation in General Relativity”
- (22) Stanford Philosophy Department Colloquium, November 19, 1999, “A Remark About Rotation and Relative Rotation in General Relativity”
- (23) Cal Tech, Division of Humanities and Social Science, April 24, 2000, “On the Geometry of ‘Time Travel’ in Gdel’s Universe”
- (24) Syracuse University, talk sponsored jointly by the Philosophy and Physics Departments, October 13, 2000, “A Remark About Rotation and Relative Rotation in General Relativity”
- (25) Syracuse University, Physics Department, October 16, 2000, “On the Geometry of ‘Time Travel’ in Gödel’s Universe”
- (26) University of California at Davis, Philosophy Department Colloquium, May 18, 2001, “A No-Go Theorem About Rotation in Relativity Theory”

- (27) Howard Stein Lecture at the University of Chicago, sponsored by the Philosophy Department and the Committee on Conceptual and Historical Studies in Science, October 26, 2001, “A No-Go Theorem About Rotation in Relativity Theory”
- (28) New Directions in the Foundations of Physics: A Memorial Conference for Rob Clifton, American Institute for Physics, College Park, May 4, 2003, “David Albert on the (Non) Time Reversal Invariance of Classical Electromagnetic Theory”
- (29) Harvard University, Philosophy Department, April 28, 2005, “On Rotation in General Relativity”
- (30) Irvine-Florence Colloquium on Logic and Philosophy of Science, April 1, 2006, “On Rotation in General Relativity”
- (31) Philosophy of Science Association meetings, Vancouver, CA, Symposium on “The Vagaries of Determinism and Indeterminism,” November 3, 2006, “How to Think About John Norton’s Dome Example”
- (32) Conference on “Determinism in the Physical Sciences”, UCLA, November 18, 2006, “Norton’s Slippery Slope”
- (33) Conference to Celebrate the 65th Birthday of William Demopoulos, University of Western Ontario, May 4, 2008, “How Space Can Be Finite”
- (34) Keynote Address to the Logic, Mathematics, and Physics Graduate Student Conference, University of Western Ontario, April 22, 2009, “On the Status of the ‘Geodesic Principle’ in General Relativity”
- (35) University of California at San Diego, Philosophy Department Colloquium, May 8, 2009, “How Space Can Be Finite”
- (36) University of California at Berkeley, Colloquium of the Working Group in History and Philosophy of Logic, Mathematics, and Philosophy of Science, May 13, 2009, “How Space Can Be Finite”
- (37) Carnegie Mellon University, Department Colloquium, October 22, 2009, “On the Status of the ‘Geodesic Principle’ in General Relativity”