

CURRICULUM VITAE

Penelope Maddy

Department of Logic and Philosophy of Science
University of California at Irvine
Irvine, CA 92697-5100

949-824-1520 (dep't)
949-824-4133 (office)
pjmaddy@uci.edu

Education

Princeton University, 1974-1978
PhD in Philosophy, January, 1979

University of California at Berkeley, 1968-1972
B. A. in Mathematics, June, 1972

Professional Positions

UCI Distinguished Professor, 2007-present
Professor of Logic and Philosophy of Science, 1998-present
Professor of Mathematics, 1989 - present
Professor of Philosophy, 1989 - 1998, 2014-present
Associate Professor of Philosophy and of Mathematics, 1987-1989
University of California at Irvine

Associate Professor, 1983-1987
Department of Philosophy
University of Illinois at Chicago

Assistant Professor, 1979-1983
Lecturer, 1978-1979
Department of Philosophy
Department of Mathematics
University of Notre Dame

Honors

Phi Beta Kappa-Romanell Professor, 2014-2015
UCI Distinguished Professor, November 2007
Ambrose/Tymoczko Lecture, Smith College, February 2007
Gauss Lecture, Dresden, Germany, October 2006
Lakatos Prize for *Naturalism in Mathematics*, November 2002
Chancellor's Professor, April 2002
UCI Distinguished Faculty Lecturership for Research, March 2002

Patrick Romanell Lecture on Philosophical Naturalism, APA, December 2001
Elected to American Academy of Arts and Sciences, April 1998
NSF Research Grant, 1994-95
NSF Research Grant, 1990-91
UCI Academic Senate Research Fellowship, 1990-91
NSF Research Grant, 1988-89
UC President's Research Fellowship, 1988-89
Postdoctoral Scholar, UCLA Department of Mathematics, 1986
NSF Research Grant, Calendar Year 1986
NEH Fellowship, Summer 1984
UIC Short Research Leave, Spring 1984
AAUW Fellowship, 1982-1983
Notre Dame Faculty Research Grant, Summer 1981
Marshall Scholarship, 1972-1973
UC Berkeley, Mathematics Department Citation, 1972
B. A. with Great Distinction, 1972
Westinghouse Science Scholarship, 1968-1972

Professional Activities

Editorial Boards:

Review of Symbolic Logic, 2014-present
Notre Dame Journal of Formal Logic, 1978-present (Managing Editor, 1979-84)
Philosophia Mathematica, 1993-present
Theoria, 2008-present
Logic PhDs, College Publications, 2013-present
Philosopher's Imprint, 2000-2006
Bulletin of Symbolic Logic, 2003-2006
Journal of Philosophical Logic, 1985-2001
Journal of Symbolic Logic, 1995-2000

Association for Symbolic Logic:

Nominating Committee, 2013
President, 2007-2009
Vice President, 2001-2004
Executive Committee, 1993-1996, 2001-2004, 2007-2009
Council, 1993-1996, 2001-present
Oversight Committee for the *Journal of Philosophical Logic*, 1995-2000; Program Committee, Spring Meeting, 1998; Nominating Committee, 1996-97; Local Organizing Committee, Annual Meeting, 1995; Chair of Program Committee, 1991 Spring Meeting; Ad-hoc Committee on the Newsletter, 1989

Philosophy of Mathematics Association:

Board member, 2015-2018.

American Philosophical Association:

Pacific Division Executive Committee, 1993-1995

Advisory Committee to the Program Committee, Eastern Division, 1995-2000, 2008-2010
Nominating Committee, Western Division, 1983-1984

Philosophy of Science Association:

Governing Board, 1994-1996

Miscellaneous:

Advisory Council, *Ideals of Proof*, 2007-2011, Agence Nationale de la Recherche, France;
Member of the APA Eastern Division Advisory Committee, 2008-2010; Member, Institute for
Mathematical Behavioral Science, 1998 - present; Program Committee, 10th International
Congress of Logic, Methodology and Philosophy of Science, Florence, 1995; US Delegate to
General Assembly of the International Union of the History and Philosophy of Science,
Stockholm, August 1991; Associate Director, UIC Institute for the Humanities, 1984-1985.

Publications

Books:

What do Philosophers do? -- Skepticism and the Practice of Philosophy, Oxford University Press, 2017.

The Logical Must, Oxford University Press, 2014.

Defending the Axioms, Oxford University Press, 2011.

Second Philosophy, Oxford University Press, 2007.

Naturalism in Mathematics, Oxford University Press, 1997.

pp. 63, 66-69, 79-81, reprinted, with a brief introduction, in G. Mazur, ed., *One Hundred Year Commemoration to the Life of A. N. Kolmogorov*, (New York: Semenenko Foundation, 2004), pp. 123-132.

pp. 22-35 reprinted as 'Set theory as a foundation' in G. Sommaruga, ed., *Foundational Theories of Classical and Constructive Mathematics*, (Dordrecht: Springer, 2011), pp. 85-96.

Realism in Mathematics, Oxford University Press, 1990.

pp. 20-35 reprinted in Russian translation, in a philosophy of mathematics anthology edited by A. Barabashev and M. Panov.

Monograph:

'Believing the axioms. I and II', *Journal of Symbolic Logic* 53 (1988), pp. 481-511, 736-764.

pp. 481-494, 758-762, reprinted in Polish translation, in a philosophy of mathematics anthology edited by R. Murawski.

Part I reprinted *Philosophy of Mathematics*, A. Paseau, ed., (Oxon, UK: Routledge, 2016).

Articles:

'Do numbers exist?', to appear in G. Rosen et al, eds., *Norton Introduction to Philosophy*, second edition.

'Psychology and the a priori sciences', to appear in S. Bangu, ed., *Naturalizing Logico-Mathematical Knowledge: Approaches from Psychology and Cognitive Science*.

'Set-theoretic foundations', to appear in an AMS volume in honor of Hugh Woodin, edited by Andres Caicedo, James Cummings, Peter Koellner and Paul Larson.

'Foreword' and 'Afterword' to a special issue on 'Mathematical Depth' (with Michael Ernst, Jeremy Heis, Bennett McNulty and James Weatherall), *Philosophia Mathematica* 23 (2015), pp. 155-162, 242-254.

'Objectivity in mathematics', to appear in A. Synytsya, ed., *Anthology of Contemporary Philosophy of Science* (in Ukrainian).

'A second philosophy of arithmetic', *Review of Symbolic Logic* 7 (2014), pp. 222-249.

'A second philosophy of logic', in P. Rush, ed., *The Metaphysics of Logic*, (Cambridge: Cambridge University Press, 2014), pp. 93-108.

'Five questions', to appear in T. Luper and T. Adajian, eds., *Philosophy of Logic: Five Questions*, Automatic Press/VIP.

'The philosophy of logic', *Bulletin of Symbolic Logic* 18 (2012), pp. 481-504.

'Naturalism and common sense', *Analytic Philosophy* 52 (2011), pp. 2-34.

'Naturalism, transcendentalism and therapy', in J. Smith and P. Sullivan, eds., *Transcendental Philosophy and Naturalism* (Oxford: Oxford University Press, 2011), pp. 120-156.

'How applied mathematics became pure', *Review of Symbolic Logic* 1 (2008), pp. 16-41.

Selected by *The Philosopher's Annual* as one of the ten best philosophy papers published in 2008.

'Five questions', in *Philosophy of Mathematics: Five Questions*, V. Hendricks and H. Leitgeb, eds., (Automatic Press, 2007), pp. 191-2.

'Mathematical existence', *Bulletin of Symbolic Logic* 11 (2005), pp. 351-376.

'Second Philosophy', *Journal of the Indian Council of Philosophical Research* 20 (2003), pp. 73-106.

'Three forms of naturalism', in S. Shapiro, ed., *Oxford Handbook of Philosophy of Mathematics and Logic* (Oxford: Oxford University Press, 2005), pp. 437-459.

'A naturalistic look at logic', *Proceedings of the American Philosophical Association* 76 (2002), pp. 61-90.

'Does mathematics need new axioms?', (symposium with Solomon Feferman, Harvey Friedman and John Steel), *Bulletin of Symbolic Logic* 6 (2000), pp. 413-422.

- 'Some naturalistic remarks on set theoretic method', *Topoi* 20 (2001), pp. 17-27.
- 'Naturalism: friends and foes', in J. Tomberlin, ed., *Philosophical Perspectives 15, Metaphysics 2001*, (Madlen, MA: Blackwell, 2001), pp. 37-67.
- 'Logic and the discursive intellect', *Notre Dame Journal of Formal Logic* 40 (1999), (a special issue in honor of George Boolos), pp. 94-115.
- 'Naturalism and the a priori', in P. Boghossian and C. Peacocke, eds., *New Essays on the A Priori*, (Oxford: Oxford University Press, 2000), pp. 92-116.
- 'A theory of classes', in G. Sher and R. Tieszen, eds., *Between Logic and Intuition: Essays in Honor of Charles Parsons*, (Cambridge: Cambridge University Press, 2000), pp. 299-316.
- 'How to be a naturalist about mathematics', in G. Dales and G. Oliveri, eds., *Truth in Mathematics*, (Oxford: Oxford University Press, 1998), pp. 161-180.
- ' $V=L$ and maximize', in V. Harnik and J. Makowsky, eds., *Logic Colloquium '95* (Berlin: Springer, 1998), pp. 134-152.
- 'Mathematical progress', in E. Grosholz and H. Breger, eds., *The Growth of Mathematical Knowledge*, (Dordrecht: Kluwer Academic Publishers, 2000), pp. 341-352..
- 'Set theoretic naturalism', *Journal of Symbolic Logic* 61 (1996), pp. 490-514.
- 'Ontological commitment: between Quine and Duhem', in J. Tomberlin, ed., *Philosophical Perspectives 10, Metaphysics*, (Cambridge, MA: Blackwell, 1996), pp. 317-341.
- 'The legacy of "Mathematical truth"', in A. Morton and S. Stich, eds, *Benacerraf and his Critics*, (Oxford: Blackwell, 1996), pp. 60-72.
- 'Naturalism and ontology', *Philosophia Mathematica* 3 (1995), pp. 248-270.
- 'A Platonist's lament', *Acta Analytica* 11 (1993), pp. 7-26.
- 'Naturalizing mathematical methodology', in M. Schirn, ed., *Philosophy of Mathematics Today*, (Oxford: Oxford University Press, 1998), pp. 175-193.
- 'Wittgenstein's anti-philosophy of mathematics', Johannes Czermak and Klaus Paul, eds., *Wittgenstein's Philosophy of Mathematics*, Proceedings of the 15th International Wittgenstein Symposium, (Vienna: Verlag Hölder-Pichler-Tempsky, 1993), pp. 52-72.
- 'Does V equal L ?', *Journal of Symbolic Logic* 58 (1993), pp. 15-41.
- Reprinted in *New Directions in the Philosophy of Mathematics*, second edition, T. Tymoczko, ed., (Princeton, NJ: Princeton University Press, 1998), pp. 357-384.
- Reprinted in *Philosophy of Mathematics*, A. Paseau, ed., (Oxon, UK: Routledge, 2016).
- 'Indispensability and practice', *Journal of Philosophy* 89 (1992), pp. 275-289.

'Taking naturalism seriously', in D. Prawitz, B. Skyrms, D. Westerstaahl, eds., *Logic, Methodology and Philosophy of Science IX*, (Elsevier Science B. V., 1994), p. 383-407.

'Philosophy of mathematics: prospects for the 90s', *Synthese* 88 (1991), pp. 155-164.

'A problem in the foundations of set theory', *Journal of Philosophy* 87 (1990), pp. 619-628.

'Mathematics and Oliver Twist', *Pacific Philosophical Quarterly* 71 (1990), pp. 189-205.

'Physicalistic platonism', in A. Irvine, ed., *Physicalism in Mathematics* (Kluwer Academic Publishers, 1990), pp. 259-289.

Reprinted in M. Resnik, ed., *Mathematical Objects and Mathematical Knowledge*, in *International Research Library of Philosophy*, J. Skorupski, ed., Dartmouth Publishing Company.

'The roots of contemporary Platonism', *Journal of Symbolic Logic* 54 (1989), pp. 1121-1144.

'Mathematical realism', in H. Wettstein et al, eds., *Realism and Anti-Realism, Midwest Studies in Philosophy*, volume 12, (University of Minnesota Press, 1988), pp. 275-285.

'Mathematical alchemy', *British Journal for the Philosophy of Science* 37 (1986), pp. 279-314.

'New directions in the philosophy of mathematics', in P. Asquith and P. Kitcher, eds., *PSA 1984*, volume 2, (Philosophy of Science Association, 1985), pp. 425-447.

'How the causal theorist follows a rule', in H. Wettstein et al, eds., *Causation and Causal Theories, Midwest Studies in Philosophy*, volume 9, (University of Minnesota Press, 1984), pp. 457-477.

'Mathematical epistemology: what is the question?', *The Monist* 67 (1984), pp. 46-55.

Reprinted in A. Casullo, ed., *A Priori Knowledge*, in *International Research Library of Philosophy*, (London: Dartmouth Publishing Company, 1999).

'Proper classes', *Journal of Symbolic Logic* 48 (1983), pp. 113-139.

Reprinted in A. Moore, ed., *The Infinite*, in *The International Research Library of Philosophy*, (London: Dartmouth Publishing Company,

'Sets and numbers', *Nous* 15 (1981), pp. 494-511.

Reprinted in D. Jacquette, ed., *Philosophy of Mathematics*, (Malden, MA: Blackwell, 2002), pp. 345-354.

'Perception and mathematical intuition', *Philosophical Review* 89 (1980), pp. 163-196.

Reprinted in M. Resnik, ed., *Mathematical Objects and Mathematical Knowledge*, in *International Research Library of Philosophy*, (London: Dartmouth Publishing Company, 1995).

Reprinted in *The Philosophy of Mathematics*, W.D. Hart, ed., (Oxford: Oxford University Press, 1996), pp. 114-141.

'Is the importance of identity derivative?', *Philosophical Studies* 35 (1979), pp. 151-170.

Book Reviews:

Stephen Pollard's *Philosophical Introduction to Set Theory*, in the *Journal of Symbolic Logic* 56 (1991), pp. 755-6.

Saunders MacLane's *Mathematics: Form and Function*, in the *Journal of Symbolic Logic* 53 (1988), pp. 643-5.

Philip Kitcher's *The Nature of Mathematical Knowledge*, in *Philosophy of Science* 52 (1985), pp. 312-314.

Charles Parsons' *Philosophy in Mathematics*, in *Canadian Philosophical Reviews* 5 (1985), pp. 125-126.

Editing:

Special Issue on Mathematical Depth, *Philosophia Mathematica* 23 (2015) (with Michael Ernst, Jeremy Heis, Bennett McNulty and James Weatherall).

Logic Colloquium 2007, Françoise Delon, Ulrich Kohlenbach, Penelope Maddy, and Frank Stephan, eds., (Cambridge: Cambridge University Press, 2010).

Applying Mathematics, a special issue of *The Monist*, volume 83, number 2, April 2000.

Dictionary Entries:

'Class', 'complementary class', 'continuum problem', 'maximal consistent set', 'Schröder-Bernstein theorem', 'set theory', and 'transfinite number' in R. Audi, ed., *Cambridge Dictionary of Philosophy*.

Presentations

'What do philosophers do?'

Three Phi Beta Kappa-Romanell lectures, University of California at Irvine, June 2015.

'The philosophy of logic'

Retiring Presidential Address, Association for Symbolic Logic, North American Annual Meeting, Berkeley, CA, March 2011

'Objectivity in mathematics'

Sixth Annual Thomas and Yvonne Williams Lecture for the Advancement of Logic and Philosophy, University of Pennsylvania, April 2010

'Naturalism and common sense'

UCLA, March 2010

University of Toronto, April 2010

Rocky Mountain Philosophy Conference, Keynote Address, April 2010

University of Pennsylvania, April 2010

Simon Fraser University, May 2010

Conference on Naturalism and the Nature of Philosophy, University of Cincinnati, October 2010

'Thin realism'

University of Indiana, Bloomington, October 2008
Very Informal Gathering, UCLA, January 2009
Perimeter Institute, Waterloo, Canada, March 2009
Stanford University, October 2009

'Naturalism, transcendentalism and therapy'

Nature of Naturalism Workshop, London, May 2008
University of Rochester, March 2009
University of Waterloo, March 2009

'Reply to critics'

American Philosophical Association Author Meets Critics session, April 2008

'How applied math became pure'

Guest Lecture, Philosophy of Mathematics Special Interest Group of the Mathematical Association of America, January 2008
Math/Philosophy Colloquium, Dartmouth, February 2008

'Defending the axioms'

Irvine/Florence Conference, Irvine, March 2007
Harvard University, April 2007

'What does science tell us about how to do mathematics?'

Ambrose/Tymoczko Lecture, Smith College, February 2007

'A package tour of the philosophy of mathematics'

Gauss Lecture, University of Dresden, October 2006

'Metaphysics naturalized'

Spring Colloquium on Metaphysics in Science, University of Michigan, March 2006

'Mathematical existence'

Invited ASL talk at 2004 Annual Meeting, Carnegie Mellon University, May 2004
Chapel Hill Colloquium, University of North Carolina, October 2004

'Naturalism and mathematical truth'

UC Berkeley, Working Group on the History and Philosophy of Mathematics and Science, February 2003
Center for History and Philosophy of Science, Pittsburgh University, March 2003
London School of Economics, May 2003

'Second philosophy'

UCI Distinguished Lecture for Research, January 2003
Lakatos Award Lecture, London School of Economics, May 2003

'A naturalistic look at logic'

MIT, November 2001
The 2001 Patrick Romanell Lecture on Philosophical Naturalism at the Eastern meetings of the American Philosophical Association, December 2001
UC San Diego, February 2002

'Does mathematics need new axioms?'

One of three featured panel discussions at the Association for Symbolic Logic's annual meeting, ASL 2000. Co-panelists: Solomon Feferman, Harvey Friedman, John Steel. June 2000.

'Naturalism: friends and foes'

UC Santa Barbara, May 1999

Stanford University, October 2000

University of Nebraska, April 2001

'Methodology for the naturalist'

UC Berkeley Logic Colloquium, February 1999

Association for Symbolic Logic, Special Session on Realism and Nominalism, UCSD, March 1999.

'Logic and the discursive intellect'

George Boolos Memorial Conference, University of Notre Dame, April 1998

'Naturalism and the a priori'

Ohio State University, May 1997

UC Riverside, February 1998

University of Iowa, April 1998

Princeton University, December 1998

'Some questions about applied mathematics'

Invited paper, Workshop on the Application of Mathematics, Cambridge, UK, July 1996

'Ontological Commitment: Between Quine and Duhem'

Invited paper, UCI Conference on Quantities in Science I, April 1996

'How to be a naturalist about mathematics'

Delivered in my absence by Alexander George at a conference on 'Mathematical Truth' in Mussomeli, Sicily, September 1995.

Invited symposium paper at the Central Division of the APA, April 1996

' $V=L$ and maximize'

Invited paper among three (mathematical, historical and philosophical) on '100 Years of Set Theory' at the Summer Meeting of the ASL in Haifa, Israel, August 1995

'Mathematical progress'

Conference held at Pennsylvania State University, April 1995

'Naturalism and ontology'

University of California at Los Angeles, Philosophy of Mathematics Workshop, April 1994

Massachusetts Institute of Technology, April 1994

'Wittgenstein's anti-philosophy of mathematics'

University of California at San Diego, January 1994

'Set theoretic naturalism'

Invited talk at the Very Informal Gathering (a national conference in mathematical logic), UCLA, January 1994

'Naturalizing mathematical epistemology'

Invited talk, Chapel Hill Colloquium, October 1992

University of Michigan, Ann Arbor, April 1993

Conference on Philosophy of Mathematics Today, Munich, June/July 1993

'Naturalism'

Invited talk at the Fifteenth International Wittgenstein Symposium in Kirchberg, Austria, August 1992

'A Platonist's lament'

Claremont Colleges Mathematics Colloquium, March 1992

'Indispensability and practice'

University of Minnesota, November 1991

'Taking naturalism seriously'

Invited talk at the 9th International Congress of Logic, Methodology and Philosophy of Science, August 1991

'A problem in the foundations of set theory'

Princeton University, 1990

APA Eastern Division Symposium, December 1990

'Mathematics and Oliver Twist'

Invited paper, APA Pacific Division, March 1990

'Realism in mathematics'

CSLI, Stanford University, 1989

'Contemporary platonism'

Invited paper, Association for Symbolic Logic, 1989

'Physicalistic platonism'

Toronto Conference on Physicalism in Mathematics, 1988

'Believing the axioms'

UC Irvine, 1986

UCLA, Department of Mathematics, 1987

APA Pacific Division invited paper, 1987

'New directions in the philosophy of mathematics'

Invited paper, PSA Symposium, 1984

Invited paper, Bloomington Philosophy of Mathematics Conference, 1984

'How the causal theorist follows a rule'

Pomona College, 1983

University of Wisconsin, Madison, 1983

'Mathematical epistemology: what is the question?'

University of Notre Dame, 1982

University of Illinois at Chicago, 1982

Doctoral Students

Michael Ernst, *The Category-Theoretical Imperative*, University of California at Irvine, 2014. Visiting Assistant Professor of Philosophy at University of Illinois, Urbana-Champaign, 2014-2015. (Returned to private sector.)

John Rapalino, *Generic Absoluteness and the Continuum Hypothesis*, University of California at Irvine, 2009. Currently Adjunct Professor of Philosophy at Chapman University.

Waldemar Rohloff, *Kant and Frege on the A Priori Applicability of Mathematics*, University of California at Irvine, 2007. Currently Assistant Teaching Professor of Philosophy at the University of Missouri, St. Louis.

Sam Hillier, *Understanding Logical Empiricism: Language Engineering in Carnap's Logical Syntax of Language*, University of California at Irvine, 2007. Currently Instructor in Philosophy, University of Alberta.

Sean Ebels-Duggan, *The Ought in Thought: Logic and Rational Norms in Kant, the Tractatus, and Beyond*, University of California at Irvine, 2007. Currently Lecturer in Philosophy at Northwestern University.

Teri Merrick, *Frege's Concept/Object Distinction: Much Ado about Nothing or a Significant Neo-Kantian Principle?*, University of California at Irvine, 2004. Currently Professor and Chair of Philosophy at Azusa Pacific College.

Patricia Marino, *Language and the World: Correspondence vs. Deflationary Theories of Truth*, University of California at Irvine, 2002. Currently Associate Professor of Philosophy at University of Waterloo.

Don Fallis, *A Defense of a Probabilistic Method of Establishing Mathematical Truths*, University of California at Irvine, 1995. Currently Professor of Information Sciences and Philosophy and Adjunct Associate Professor of Philosophy, University of Arizona.

Christopher Menzel, *Mathematical Realism and the Theory of Sets*, University of Notre Dame, 1984. Currently Professor of Philosophy at Texas A & M.

Donna Summerfield, *Regresses, Rules, and Representation: Wittgenstein's Gordian Knot*, University of Notre Dame, 1983. Associate Professor of Philosophy, University of Southern Illinois, Carbondale. (Deceased)

University Service

LPS Logic Search Committee, Chair, 2008-2009
LPS Placement Committee, Chair, 2007-2009, Member 2009-2010
Program Review Committee, UCSD Department of Philosophy, 2007
Ad Hoc Review Committee, Social Sciences Dean, 2007
LPS Personnel Committee Chair, 2001-2007, 2008-2010
Founding Chair, Department of Logic and Philosophy of Science, 1998-2001
Departmental Director of Graduate Admissions, 1997-1999
Campus Distinguished Professors Committee, 1997
Departmental Prize Committee, 1997
Department Personnel Committee, 1996-98, 2005-2010
Chancellor's Task Force on Academic Programs, 1993-4
Chair, Department of Philosophy, 1991-1995
Campus Affirmative Action Committee, 1989-92
Screening Committee, Targets of Opportunity Program, Fall 1989, Winter 1990, Fall 1990
Review Panel, UC President's Research Fellowships in the Humanities, 1989
Departmental Affirmative Action Committee, 1987-1991
Dean's Ad Hoc Committee on the Women's Studies Program, 1987

(3/5/17)