

Christopher Pincock
Curriculum Vitae

Department of Philosophy
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Education

Ph.D. University of California, Berkeley, Philosophy, 2002
B.A. (Honors) University of Western Ontario, Philosophy, 1996

Academic Employment

2007 – present Associate Professor, Philosophy, Purdue University
2002 – 2007 Assistant Professor, Philosophy, Purdue University

Areas of Specialization

Philosophy of Science; Philosophy of Mathematics; History of Analytic Philosophy; Philosophy of Logic

Areas of Competence

Logic (Deductive and Inductive); History of Early Modern Philosophy; Philosophy of Language

Dissertation

Title: “A Structuralist Approach to Applying Mathematics”
Committee: Prof. Paolo Mancosu (chair); Prof. Hans Sluga; Prof. Jack Silver

Publications

Refereed Articles

- (12) “The Value of Mathematics for Scientific Confirmation”, *Philosophy of Science* (Symposium Proceedings), forthcoming.
- (11) “Modeling Reality”, *Synthese*, forthcoming in special issue on Models and Simulations 2.
- (10) “From Sunspots to the Southern Oscillation: Confirming Models of Large-Scale Phenomena in Meteorology”, *Studies in the History and Philosophy of Science* 40 (2009): 45-56.
- (9) “Russell’s Last (and Best) Multiple-Relation Theory of Judgment”, *Mind* 117 (2008): 107-139.
- (8) “Mathematical Idealization”, *Philosophy of Science* (Proceedings) 74 (2007): 957-967.
- (7) “A Role for Mathematics in the Physical Sciences”, *Nous* 41 (2007): 253-275.
- (6) “Richard Semon and Russell’s *Analysis of Mind*”, *Russell* 26 (2006): 101-125.
- (5) “Overextending Partial Structures: Idealization and Abstraction”, *Philosophy of Science* (Proceedings) 72 (2005): 1248-1259.
- (4) “A Reserved Reading of Carnap’s *Aufbau*”, *Pacific Philosophical Quarterly* 86 (2005): 518-543.
- (3) “A New Perspective on the Problem of Applying Mathematics”, *Philosophia Mathematica* 12 (2004): 135-161.
- (2) “A Revealing Flaw in Colyvan’s Indispensability Argument”, *Philosophy of Science* 71 (2004): 61-79.

(1) “Russell’s Influence on Carnap’s *Aufbau*”, *Synthese* 131 (2002): 1-37.

Invited Articles

- (8) “Carnap’s *Logical Structure of the World*”, *Philosophy Compass*, forthcoming.
- (7) “Towards a Philosophy of Applied Mathematics”, in O. Bueno & Ø. Linnebo (eds.), *New Waves in Philosophy of Mathematics*, Palgrave Macmillan, forthcoming.
- (6) “Mathematical Structural Realism”, in A. Bokulich & P. Bokulich (eds.), *Scientific Structuralism*, Boston Studies in the Philosophy of Science, Springer, forthcoming.
- (5) “Carnap, Russell and the External World”, in M. Friedman & R. Creath (eds.), *Cambridge Companion to Carnap*, Cambridge University Press, 2008, 106-128.
- (4) “The Limits of the Relative A Priori”, *Soochow Journal of Philosophical Studies* (Taiwan) 16 (2007): 51-68.
- (3) “Accounting for the Unity of Experience in Dilthey, Rickert, Bradley and Ward”, in U. Feest (ed.), *Historical Perspectives on Erklären and Verstehen*, Archimedes, Vol. 21, Springer, forthcoming. (Also available in Max Planck Institute for the History of Science, Preprint Series, Vol. 324, 2007, 175-192.)
- (2) “Conditions on the Use of the One-dimensional Heat Equation”, in G. Sica (ed.), *Essays on the Foundations of Mathematics and Logic*, Vol. 2, Polimetrika, 2005, 67-79.
- (1) “Carnap and the Unity of Science: 1921-1928”, in T. Bonk (ed.), *Language, Truth and Knowledge: Contributions to the Philosophy of Rudolf Carnap*, Vienna Circle Institute Library, Volume 2, Kluwer, 2003, 87-96.

Critical Notices, Reviews and Discussions

- (18) Critical Notice: “Mark Wilson, *Wandering Significance: An Essay on Conceptual Behavior*”, *Philosophia Mathematica*, forthcoming.
- (17) “B. Gold & R. A. Simons (ed.), *Proof and Other Dilemmas: Mathematics and Philosophy*”, *Association for Computing Machinery SIGACT News*, forthcoming.
- (16) “D. Reed, *The Origins of Analytic Philosophy: Kant and Frege*”, *History and Philosophy of Logic* 30 (2009): 308-309.
- (15) “J. Lützen, *Mechanistic Images in Geometric Form: Heinrich Hertz’s Principles of Mechanics*”, *Philosophia Mathematica* 16 (2008): 140-144.
- (14) “Preston on the Illusory Character of Analytic Philosophy”, *Bertrand Russell Society Quarterly* 136 (2007): 40-47.
- (13) “S. Miah, *Russell’s Theory of Perception (1905-1919)*”, *Notre Dame Philosophical Reviews*, 2007.03.08.
- (12) “Rejoinder to Soames”, *Russell* 26 (2006): 77-86.
- (11) “M. Frápolli (ed.), *F. P. Ramsey: Critical Reassessments*”, *History and Philosophy of Logic* 27 (2006): 81-82.
- (10) “S. Soames, *Philosophical Analysis in the Twentieth Century* (2 vols.)”, *Russell* 25 (2006): 167-171.
- (9) “D. Corfield, *Towards a Philosophy of Real Mathematics*”, *Philosophy of Science* 72 (2005): 632-634.
- (8) “Awodey and Klein (eds.), *Carnap Brought Home: The View from Jena*”, in M. C. Galavotti (ed.), *Cambridge and Vienna. Frank P. Ramsey and the Vienna Circle*, *Vienna Circle Institute Yearbook* 12, Kluwer, 2005, pp. 213-218.
- (7) Critical Notice: “T. Wilholt, *Zahl und Wirklichkeit [Number and Reality]*”, *Philosophia Mathematica* 13 (2005): 329-337.
- (6) “Comments on Liebers’s ‘Russell on Wittgenstein’”, *Bertrand Russell Society Quarterly* 125 (2005): 51-52.
- (5) “N. Milkov, *A Hundred Years of English Philosophy*”, *Notre Dame Philosophical Reviews*, 2004.10.06.

- (4) “Wittgenstein and Waismann, *The Voices of Wittgenstein: The Vienna Circle*, G. Baker (ed.)”, *History and Philosophy of Logic* 25 (2004): 156-157.
- (3) “Parrini, Salmon and Salmon (eds.), *Logical Empiricism: Historical and Contemporary Perspectives*”, in F. Stadler (ed.), *Induction and Deduction in the Sciences, Vienna Circle Institute Yearbook 11*, Kluwer, 2004, pp. 331-334.
- (2) “M. Ostrow, *Wittgenstein’s Tractatus: A Dialectical Interpretation*”, *Notre Dame Philosophical Reviews*, 2003.01.14.
- (1) “E. Reck (ed.), *From Frege to Wittgenstein: Perspectives on Early Analytic Philosophy*”, *History and Philosophy of Logic* 23 (2002): 297-300.

Work in Progress

- (6) “Abstract Representations and Confirmation”, under review.
- (5) “Applicability of Mathematics”, *Internet Encyclopedia of Philosophy*, under review.
- (4) “Philosophy of Mathematics”, J. Saatsi & S. French (eds.), *Companion to the Philosophy of Science*, Continuum, under review.
- (3) “How to Avoid Inconsistent Idealizations”, P. Vickers & O. Bueno (eds.), *Is Science Inconsistent?*, special issue of *Synthese*.
- (2) “Mathematics and Scientific Failure”
- (1) *Mathematics and Scientific Representation*, book project.

Presentations

Papers

- (32) “Mathematics and Scientific Failure”, University of Pennsylvania Philosophy Colloquium, Philadelphia, PA, October 2009.
- (31) “Discerning the Truth in Fiction”, presented to (i) Models and Fiction Workshop, School of Advanced Study, University of London, London, UK, March 2009, (ii) Department of History and Philosophy of Science, University of Athens, Athens, Greece, March 2009, (iii) Faculty Speaker, 11th Annual Pitt-CMU Graduate Student Philosophy Conference, Pittsburgh, PA, March 2009, (iv) Logic and Language Workshop, National Taiwan University, Taipei, Taiwan, May 2009.
- (30) “The Case for Multiscale Modeling”, Models and Simulations 3, University of Virginia, Charlottesville, VA, March 2009.
- (29) “How to Avoid Inconsistent Idealizations”, presented to (i) Society for Realist/Antirealist Discussion (Group Session), Central Division American Philosophical Association Meeting, Chicago, IL, February 2009, (ii) Department of History and Philosophy of Science, University of Athens, Athens, Greece, March 2009.
- (28) “The Value of Mathematics for Scientific Confirmation”, Symposium contribution, Biennial Meeting of the Philosophy of Science Association, Pittsburgh, PA, November 2008.
- (27) “Abstract Representations and Confirmation”, presented to (i) Pittsburgh Center for the Philosophy of Science Lunchtime Colloquium, September 2008, (ii) University of Missouri Philosophy Colloquium, Columbia, MO, February 2009, (iii) Logic, Language and Science Series, The Ohio State University Philosophy Department, Columbus, OH, April 2009.
- (26) “Towards a Philosophy of Applied Mathematics”, New Waves in Philosophy of Mathematics, Miami, FL, April 2008.
- (25) “Russell’s Propositional Functions and the Metaphysical Basis of Logic”, presented to (i) Annual Meeting of the Association for Symbolic Logic, Irvine, CA, March 2008, (ii) Early Analytic Philosophy Conference, Iowa City, IA, April 2008.
- (24) “The Possession Conditions of Arithmetical Concepts”, presented to (i) Indiana University Purdue University Fort Wayne Philosophy Club, Fort Wayne, IN, November 2006, (ii) Edelstein Center, Hebrew

- University of Jerusalem, Israel, December 2007, (iii) Eastern Division American Philosophical Association Meeting, Baltimore, MD, December 2007.
- (23) “A Priori Contributions to Scientific Knowledge”, Bar-Hillel Colloquium for the History, Philosophy and Sociology of Science, Cohn Institute, Tel Aviv University, Israel, December 2007.
- (22) “Modeling Reality”, Models and Simulations 2, Center for Logic and Philosophy of Science, Tilburg University, Netherlands, October 2007.
- (21) “The Limits of the Relative A Priori”, Soochow International Conference on Analytic Philosophy, Taipei, Taiwan, June 2007.
- (20) “From Sunspots to the Southern Oscillation: Confirming Models of Large-Scale Phenomena in Meteorology”, Confirmation, Induction and Science, London, March 2007.
- (19) “Mathematical Idealization”, presented to (i) Wayne State Philosophy of Mathematics Working Group, February 2006 and (ii) Biennial Meeting of the Philosophy of Science Association, Vancouver, BC, November 2006.
- (18) “The Geisteswissenschaften Debate in Britain: Bradley on the Science of History”, Workshop on Historical Perspectives on “Erklären” and “Verstehen”, Max Planck Institute for the History of Science, Berlin, June 2006.
- (17) “The Scientific Basis for Russell’s External World Program”, presented to (i) Bertrand Russell Society Meeting, Iowa City, IA, May 2006 and (ii) Sixth Biennial Congress of the International Society for the History of Philosophy of Science, Paris, June 2006.
- (16) “An Overlapping Consensus Model of the Origins of Analytic Philosophy”, History of Early Analytic Philosophy Society (Group Session), Eastern Division American Philosophical Association Meeting, New York, NY, December 2005.
- (15) “The Derivation and Application Conditions of the One-dimensional Heat Equation”, 33rd Annual Meeting of the Society for Exact Philosophy, Toronto, May 2005.
- (14) “Dispensing With ‘Mixed’ Mathematical Facts”, presented to (i) Fifth Annual Midwest PhilMath Workshop, Notre Dame, IN, November 2004 and (ii) Society for Realist/Antirealist Discussion (Group Session), Eastern Division American Philosophical Association Meeting, Boston, MA, December 2004.
- (13) “Overextending Partial Structures: Idealization and Abstraction”, presented to (i) Wayne State Philosophy of Mathematics Working Group, March 2004 and (ii) Biennial Meeting of the Philosophy of Science Association, Austin, TX, November 2004.
- (12) “From Philosophy to Psychology and Back: The Role of Richard Semon in Russell’s *Analysis of Mind*”, Fifth Biennial Congress of the International Society for the History of Philosophy of Science, San Francisco, CA, June 2004.
- (11) “Mathematics Makes a Difference”, Central Division American Philosophical Association Meeting, Chicago, IL, April 2004.
- (10) “Russell’s Changing Beliefs”, presented to (i) University of Toronto Analytical Philosophy Group, November 2003 and (ii) Third Annual Early Analytic Philosophy Conference, Purdue University, West Lafayette, IN, April 2004.
- (9) “Russell-Carnap and Analytic Philosophy”, Wayne State Philosophy Colloquium, March 2004.
- (8) “Ideal Fluids and Complex Analysis: A Case Study in ‘Unreasonable’ Effectiveness”, Indiana University Logic Seminar, October 2003.
- (7) “A Reserved Reading of Carnap’s *Aufbau*”, History and Philosophy of Science Colloquium Series, Indiana University, November 2002.
- (6) “Carnap’s Physical Construction System”, Fourth Biennial Congress of the History of Philosophy of Science Working Group, Montreal, June 2002.
- (5) “The Structure of Indispensability Arguments”, 2002 Annual Meeting of the Association for Symbolic Logic, Las Vegas, June 2002. (Abstract, *Bulletin of Symbolic Logic*, 9 (2003), 61.)

- (4) "A New Perspective on Applying Mathematics", presented to (i) Logic and Philosophy of Science Department, University of California, Irvine, (ii) Philosophy Department, Purdue University, and (iii) Philosophy Department, University of Manitoba, Spring 2002.
- (3) "Carnap and the Unity of Science: 1921-1928", The Vienna Circle and Logical Empiricism: Re-Evaluation and Future Perspectives on Research and Historiography, Vienna, July 2001.
- (2) "Russell's Influence on Carnap's *Aufbau*", Townsend Center Working Group in History and Philosophy of Logic, Berkeley, May 2000.
- (1) "Carnap's Engagement with Russell: 1921-1928", Vienna Circle Institute, Vienna, June 1999.

Comments

- (10) "Prasanta Bandyopadhyay's 'The Duhem-Quine Thesis'", Central Division American Philosophical Association Meeting, Chicago, IL, April 2008.
- (9) "Ranpal Dosanjh's 'Real Laws Don't Have Demonstrative Content'", Central Division American Philosophical Association Meeting, Chicago, IL, April 2007.
- (8) "Otávio Bueno's 'How Structuralism Can Solve the Access Problem'", Central Division American Philosophical Association Meeting, Chicago, IL, April 2006.
- (7) "Paul Pojman's 'From Mach to Carnap: A Tale of Confusion'", History of Early Analytic Philosophy Society (Group Session), Central Division American Philosophical Association Meeting, Chicago, IL, April 2006.
- (6) "Scott Soames, *Philosophical Analysis in the Twentieth Century*, vol. 1", Author Meets Critics, Pacific Division American Philosophical Association Meeting, Portland, OR, March 2006.
- (5) "Uljana Feest's 'Meaningful Structures: Placing the *Aufbau* in the Context of Holistic Science'", History of Early Analytic Philosophy Society (Group Session), Eastern Division American Philosophical Association Meeting, Boston, MA, December 2004.
- (4) "Joongol Kim's 'Are Numbers Objects?'"', Eastern Division American Philosophical Association Meeting, Washington, D.C., December 2003.
- (3) "Wade Savage's 'Carnap's *Aufbau* Rehabilitated'", Central Division American Philosophical Association Meeting, Cleveland, April 2003.
- (2) "Yoichi Kaniike's 'Carnap and Quine on Logical Truth'", Pacific Division American Philosophical Association Meeting, San Francisco, March 2001.
- (1) "Alison Simmons' 'Sensible Ends: Latent Teleology in Descartes' Account of Sensations'", California Scholars in Early Modern Philosophy, Berkeley, September 1998.

Other Presentations

- (3) "Did the Vienna Circle Require Vienna?", European Studies at Purdue University, April 2008.
- (2) "Bertrand Russell: Logician, Philosopher and Activist", Purdue University Student Pugwash, February 2006.
- (1) "When Does a Mathematical Question Become a Philosophical Question?", Invited Speaker, 22nd Annual Rose-Hulman Undergraduate Mathematics Conference, Terre Haute, IN, March 2005.

Honors and Awards

External

- (3) National Endowment for the Humanities Fellowship, "The Value of Mathematics for Scientific Representation", 2008-2009.
- (2) Visiting Fellow, Pittsburgh Center for the Philosophy of Science, 2008-2009.
- (1) National Endowment for the Humanities Summer Stipend, "Grasping El Niño: Isolating the Constraints on Large-Scale Mathematical Modeling", Summer 2005.

Internal

- (7) Purdue College of Liberal Arts International Travel Grant, Spring 2007.

- (6) Purdue Research Foundation Summer Faculty Grant, “Mathematics and the Interpretation of Scientific Theories”, Summer 2006.
- (5) Purdue Research Foundation International Travel Grant, Summer 2006.
- (4) Purdue Research Foundation Summer Faculty Grant, “Mathematical Models and Idealization”, Summer 2003.
- (3) Academic Senate’s Outstanding Graduate Student Instructor Award, U.C. Berkeley, Spring 2001.
- (2) Two Humanities Research Grants, U.C. Berkeley, 1998-1999 & 2000-2001.
- (1) Ralph W. Church Scholarship, U.C. Berkeley, Fall 1996.

Teaching

Instructor

Logic

672: Philosophy of Logic	Spring 2007
450: Symbolic Logic	Fall 2007, Fall 2005, Fall 2004
150: Principles of Logic	Fall 2006, Fall 2004
12a: Introduction to Logic	Summer 1999

History

545: Recent Analytic Philosophy	Fall 2006
515: History of Analytic Philosophy II	Spring 2008, Spring 2006
514: History of Analytic Philosophy I	Fall 2007, Fall 2005, Spring 2004
25b: Early Modern Philosophy	Summer 2001

Mathematics and Science

490: Philosophy of Mathematics	Spring 2005
421: Philosophy of Science	Spring 2005, Spring 2003
350: Inductive Logic & Probability	Spring 2007, Spring 2004, Spring 2003
5: Introduction to Philosophy of Science	Summer 2000

Introductory

120: Critical Thinking	Fall 2002
110: Introduction to Philosophy	Spring 2006, Summer 2004, Fall 2002

“Introduction to the History of Analytic Philosophy”, four-week intensive course, Soochow University, Taipei, Taiwan, May 2009.

Independent Study Supervision: “Wittgenstein and Rule-Following”, Spring 2007. “Probability”, Spring 2007. “Logic and the Foundations of Mathematics”, Spring 2005. Dean’s Scholars Program, “Introduction to the Philosophy of Mathematics”, Spring 2003.

Graduate Student Instructor: Ten different courses at U. C. Berkeley (1997-2002)

Administrative Activities

Director of Graduate Admissions, Recruitment and Funding, 2007-2008.

Chair, Undergraduate Committee, 2006-2007.

Professional Activities

Editorial Board, *The Southern Journal of Philosophy*

Referee

Journals

British Journal for the Philosophy of Science, Canadian Journal of Philosophy, Dialectica, Erkenntnis, History and Philosophy of Logic, International Studies in the Philosophy of Science, Journal of Philosophical Logic, Journal of Philosophical Research, Mind, Philosophia Mathematica, Philosophical Psychology, Philosophy of Science, Review of Symbolic Logic, Synthese.

Other

Internet Encyclopedia of Philosophy, Netherlands Organisation for Scientific Research, Oxford University Press, Palgrave, Routledge, Social Sciences and Humanities Research Council of Canada, Wiley-Blackwell.

Invited reviewer, *Mathematical Reviews* and *Zentralblatt Math*.

Organizer, “Applied Mathematics and the Philosophy of Science”, Symposium, Biennial Meeting of the Philosophy of Science Association, Pittsburgh, PA, November 2008.

Chair of Session

“Symposium: Schlick, Einstein, and the Early History of Logical Empiricism”, Fifth Biennial Congress of the International Society for the History of Philosophy of Science, San Francisco, CA, June 2004.

“Colloquium: Philosophy of Science”, Central Division American Philosophical Association Meeting, Cleveland, April 2003.

“Colloquium: Metaphysics”, Pacific Division American Philosophical Association Meeting, San Francisco, March 2003.

Organizer, Third Annual Early Analytic Philosophy Conference, Purdue University, West Lafayette, IN, April 2004.

Professional Societies

American Philosophical Association, Association for Symbolic Logic, Bertrand Russell Society, History of Early Analytic Philosophy Society, Indiana Philosophical Association, International Society for the History of Philosophy of Science, Philosophy of Science Association, Society for Exact Philosophy, Vienna Circle Institute

Languages

French (reading) and German (reading)