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Areas of Specialization: Philosophy of logic; Philosophy of mathematics;
Foundations of analytic philosophy; Philosophy of language.

Education

Ph.D. (Philosophy), Stanford University, 1990.

B.A. (Philosophy), University of California, San Diego, 1983.

Employment

August 1993 – Present: University of Notre Dame, Dept. of Philosophy

- May 2012 – Present: Professor
- May 2000 – May 2012: Associate Professor
- August 1993 – May 2000: Assistant Professor

July 1990 - July 1993: Yale University. Assistant Professor, Dept. of Philosophy.

Awards, Fellowships

- 2007-08: Sabbatical Fellowship, *American Philosophical Society*
- 1998: *The Philosopher's Annual* citation for "one of the ten best articles published in philosophy in 1996," for "Frege and Hilbert on Consistency," *Journal of Philosophy* XCIII.

Book

- *Frege's Conception of Logic*, Oxford University Press 2012
 - Review by Øystein Linnebo in *Notre Dame Philosophical Reviews*
<http://ndpr.nd.edu/news/37030-frege-s-conception-of-logic/>
 - Review by Aldo Antonelli in *Bulletin of Symbolic Logic* vol 19 (2), pp 219-22.
 - Review by Roy Cook in *Philosophia Mathematica* 22, 1 (2014) 108-120

Articles

- "Axioms in Frege," forthcoming in *Essays on Frege's Basic Laws of Arithmetic*, edited by Marcus Rossberg and Philip Ebert, Oxford University Press (expected 2016)
- "Models and Independence circa 1900," forthcoming in *Logica Yearbook 2015*, London: College Publications (expected Spring 2016)
- "The Breadth of the Paradox," *Philosophia Mathematica* 2015; doi 10.1093/phimat/nkv038 (paper version expected 2016)

- "Frege on Mathematical Progress," forthcoming in *Early Analytic Philosophy: New Perspectives on the Tradition* edited by Sorin Costreie; Springer Verlag (expected 2016).
- "Philosophy of Logic," forthcoming in *Philosophy of Logic: 5 Questions*, Automatic Press
- "Reply to Cook, Rossberg, and Wehmeier," *Journal of the History of Analytic Philosophy*, Vol 3 No. 7 (2015).
- "Frege," in *Oxford Handbook of German Philosophy in the Nineteenth Century*, M. Forster and K. Gjesdal (eds), Oxford University Press 2015, 207-227.
- "Frege's Critique of 'Modern' Axioms" in *Frege: Freund(e) und Feind(e), Proceedings of the International Conference*, Dieter Schott (ed), Berlin: Logos Verlag 2015, 105-120.
- "Frege on Formality and the 1906 Independence Test," *Formalism and Beyond: On the Nature of Mathematical Discourse*, Godehard Link (ed), Boston/Berlin: de Gruyter 2014, pp 97-118.
- "From Logicism to Metatheory," *The Palgrave Centenary Companion to Principia Mathematica*, B. Linsky and N. Griffin (eds), Palgrave Macmillan 2013, pp 59-78.
- "Frege on Shared Belief and Total Functions," *Journal of Philosophy* CIX 1/2 (Jan/Feb 2012) pp 9-39.
- "Frege on Consistency and Conceptual Analysis," *Philosophia Mathematica* 15, 3 (2007) pp 321-346.
- "Mathematical Objects and Identity," *Situating Semantics: Essays on the Philosophy of John Perry*, M. O'Rourke and C. Washington (eds) MIT Press 2007, pp 73-92.
- "The Frege-Hilbert Controversy" in the *Stanford Encyclopedia of Philosophy* <http://plato.stanford.edu/entries/frege-hilbert/> (first posted 2007)
- "Logical Consequence," *Blackwell Guide to Philosophical Logic* (Blackwell: Malden MA and Oxford 2001), 115-135.
- "Realism and Paradox," *Notre Dame Journal of Formal Logic* 41, 3 (2000) 227-241.
- "Models and Modality," *Synthese* Vol 124, No.1/2 (July 2000), 45-72.

- "Relative Identity and Cardinality," *Canadian Journal of Philosophy* Vol. 29, No. 2 (June 1999), 205-224.
- "Frege and Hilbert on Consistency," *Journal of Philosophy* XCIII (July 1996), 317-336.
 - Reprinted in *The Philosopher's Annual* Vol XIX (1998), 33-51.
 - Reprinted in *Gottlob Frege: Critical Assessments of Leading Philosophers* Vol II (Reck, E. and M. Beaney, eds), Routledge 2005 pp 29-49.
- "Frege's Reduction," *History and Philosophy of Logic* Vol. 15 (1994), 85-103.
- "Fregean Thoughts and Indexicals," *CSLI Report* No. CSLI-88-134, Center for the Study of Language and Information, Stanford University, Nov. 1988.

Book Reviews

- Review of Alexander George and Daniel Velleman: *Philosophies of Mathematics* in *Philosophia Mathematica* (Series III) Vol 11 Number 3 (2003) pp 358-362.
- Review of Colin McGinn's *Logical Properties*. Notre Dame Philosophical Reviews, 2002.

Encyclopedia Entries

- "Logical Consequence" in *Encyclopedia of Language and Linguistics*, 2nd Edition, Elsevier Press (2005)
- "Realism in the Philosophy of Mathematics," *Routledge Encyclopedia of Philosophy* (1998).

Invited Lectures

- "Models in Geometry and Logic: 1870-1920," Plenary address at the International Congress on Logic, Methodology and Philosophy of Science, Helsinki. August 2015.
- "Models and Independence circa 1900," Invited lecture at the *Logica* conference, Hejnice, Czech Republic. June 2015.
- "Logic and Conceptual Analysis in Frege," University of Pavia (Italy), May 2015.
- "Frege on Abstraction":
 - Università Vita-Salute San Raffaele, Milan; May 2015
 - *Logica* seminar, University of Barcelona, May 2015
- "Models in Geometry and Logic," Oberlin College Philosophy Department Colloquium, April 2015

- "The Birth of Semantic Entailment," Plenary address at the Logic Colloquium 2014 in Vienna ("Vienna Summer of Logic"), July 2014
- "Frege on Mathematical Progress," Invited address at the Philosophy of Mathematics session of the Logic Colloquium, Vienna, July 2014
- "What Does a Model Show?," Plenary address at the Society for the Study of the History of Analytical Philosophy, Montreal, May 2014
- "Sense and Ignorance," invited address at the "Content, Context and Inference in Frege; Frege@Stirling II" workshop, Stirling, Scotland, May 2014
- "Getting to Hilbert-Ackermann Completeness: Early Steps," invited address at the Association of Symbolic Logic Spring Meeting, San Diego, April 2014
- "Author Meets Critics" book symposium on my *Frege's Conception of Logic* at the American Philosophical Association Pacific Division Meeting, San Diego, April 2014
- Contribution to the Book Symposium on Richard Heck's *Frege's Theorem*, American Philosophical Association Eastern Division Meeting, Baltimore, December 2013
- "Applications and Content: Frege and Gödel on Mathematics as Syntax," Munich Center for Mathematical Philosophy, Munich, July 2013
- "Axioms in Frege," *Third International Frege Conference*, Wismar, Germany, May 2013
- "Axioms in Frege," *FregeFest IV*, University of California, Irvine, April 2013
- "Frege's Conception of Logic," Wittgenstein Workshop at the University of Chicago, February 2013
- "The Breadth of the Paradox," Munich Center for Mathematical Philosophy, Munich, January 2013
- "Models and Independence in Geometry and Logic," The Ohio State University Philosophy Department, October 2012
- "Logic and Conceptual Analysis in Frege," CUNY Logic Workshop, September 2012
- "(Frege On) Axioms as Foundations" at the "What are Foundations and What are they For?" conference at Cambridge University (July 2012)
- "Axioms and Conceptual Analysis in Frege" at the Bucharest Conference in Analytic Philosophy, University of Bucharest, Romania (June 2012)
- "Independence and Entailment" at the Moral Sciences Club, Cambridge University (May 2012)
- "Axioms in Frege" at the *Grundgesetze* conference, New York University (May 2012)
- "Axioms and Structure in Frege" at the "The Classical Model of Science II – the Axiomatic Method," conference, Vrije Universiteit Amsterdam (August 2011)
- "Conceptual Analysis, the Peano Axioms, and Logicism in Frege" at the "Logicism Today" workshop, Besse-en-Chandesse, France (June 2011)
- "Frege on Conceptual Analysis and Logical Entailment" at the University of Chicago Workshop on Formal Philosophy (April 2011)
- "Frege's Metatheory" at the 2010 Paris PhilMath Workshop at the École Normale Supérieure, Paris, France (November 2010)
- "From Logicism to Metatheory" at the "PM@100: Logic from 1910 to 1927" conference at McMaster University, Hamilton Ontario (May 2010)

- "Frege on Conceptual Analysis and Logical Entailment" at the 2009 Formal Epistemology Workshop, Pittsburgh PA (June 2009)
- "Frege on Conceptual Analysis and Logical Entailment," plenary address at the North American annual meeting of the Association for Symbolic Logic, Notre Dame, IN (May 2009)
- "Domain Extensions and Total Functions in Frege" at the Institut für Logik und Wissenschaftstheorie, Ludwig-Maximilians-Universität, Munich (June 2008)
- "A Fregean Conception of Logic" at the American Philosophical Society, Philadelphia PA (May 2008)
- "Analysis and the Logical Relations in Frege" at:
 - Dept. of Philosophy, University of Wisconsin at Madison (November 2005)
 - Dept. of Philosophy, University of Wisconsin at Milwaukee (October 2004)
 - Dept. of Philosophy, Ohio State University (July 2004)
- "Partial Mathematical Objects" at the Metaphysical Mayhem conference, Syracuse NY (August 2002).
- "Universalism: A Fregean Perspective" at the Association of Symbolic Logic meeting, Urbana-Champaign, IL (June 2000).
- "Frege's Metatheory" at the Dept. of Logic and Philosophy of Science, University of California/Irvine (February 2000).
- "Frege's Metatheory and the 1906 Independence Test" at:
 - Northwestern University, Program for the History and Philosophy of Science (January 1999);
 - Purdue University Philosophy Dept. (November 1998);
- "Platonism and Reduction" at the Inland Northwest Philosophy Conference, Moscow, Idaho (April 1998).
- "Models and Modality" at Indiana University - Bloomington Logic Group (November 1997)
- "Frege, Hilbert, and Ordinary Consistency" at the University of California, Riverside Philosophy Dept. (January 1995)
- "Frege's Reduction" at the University of Calgary Philosophy Department (October 1993).
- "Frege's Logicism" at:
 - Brandeis University Philosophy Department (March 1993);
 - University of Wisconsin, Madison Philosophy Dept. (November 1992);
 - Manhattanville College Philosophy Department (April 1992).
- "Frege's Logicism: A Response to Benacerraf" at:
 - CUNY Graduate Center, Philosophy Colloquium (October 1990);
 - - Stanford University; University of California/Berkeley; University of California/Riverside; University of Texas/Austin; University of Rochester; University of Washington/Seattle (Fall-Winter 1989-90).

Invited Conference Replies

- "Reply to Landini" (topic: Frege's Logicism), American Philosophical Association, Central Division (April 2006)
- "Reply to Newhard" (topic: Kripke's theory of truth), Inland Northwest Philosophy Conference (March 2000).
- "Reply to Rumfitt" (Topic: Frege's Logicism), American Philosophical Association, Central Division, New Orleans (May 1999).

- "Reply to Tait" (Topic: Cantor's *Grundlagen*), American Philosophical Association, Central Division, Chicago (May 1998).
- "Davidson on Quotation: a Reply to Stainton," Canadian Philosophical Association, Western Division, Winnipeg, Manitoba (October 1997).
- "Reply to Macbeth" (Topic: Frege's theory of number), American Philosophical Association, Central Division, Chicago (April 1996).
- "Reply to Ray" (Topic: Logical Consequence), American Philosophical Association, Pacific Division, San Francisco (March 1995).
- "Reply to Perry" (Topic: Indexicals in ordinary language), Berkeley Conference on Philosophy of Language, Berkeley, California (April 1993).
- "Reply to Sher" (Topic: Logical Consequence), American Philosophical Association, Eastern Division, New York (December 1991).

Courses Taught at Notre Dame

Introductory:

Introduction to Philosophy
 Introductory Philosophy of Mind
 Introductory Logic
 Critical Thinking

Intermediate / Advanced:

Foundations of Analytic Philosophy
 Philosophy of Language
 Philosophy of Mathematics
 History and Philosophy of Logic
 Logic

Graduate Seminars:

Topics in Philosophical Logic
 Philosophy of Logic (The Emergence of First-Order Logic, 1879-1930)
 Philosophy of Logic (Consequence)
 The Philosophy of Gottlob Frege
 Frege's Philosophy of Logic and Mathematics
 Frege's Philosophy of Language
 Logic in Metaphysics and Metaphysics in Logic
 Contemporary Philosophy of Mathematics

Directed Readings (Graduate Students)

Foundations of Analytic Philosophy
 Frege
 Wittgenstein (*Tractatus* and *Philosophical Investigations*)

Service to the Profession

Associations:

Association of Symbolic Logic:

- Chair of the Program Committee, North American Annual Meeting 2016
- Chair and co-organizer (with Pen Maddy) of the special session on Philosophy of Mathematics for the 2015 European Summer Meeting in Helsinki
- ASL Membership Committee, 2009 – 2015
- ASL Council, 2014 - present

American Philosophical Association:

- Advisory Committee to the Eastern 2016 meeting;
- Nominating Committee, Central Division 2010

International Association for the Philosophy of Mathematics (PMA):

- Board member 2010 – present; Vice President 2015 - present
- Chair of nominating committee 2014

Journals:

Editorial Board, *Philosophia Mathematica* 2014 - present

Editor, *Bulletin of Symbolic Logic* 2013 - present

Editorial Board, *Notre Dame Journal of Formal Logic* – present

Conferences:

Program Committee, *Logica 2015*, Hejnice, Czech Republic

Program Committee, Scandinavian Summer School in Logic (2014-15)

Program Committee, *Scandinavian Logic Symposium* 2014

Program Committee, *Midwest PhilMath Workshop*, each year 1999-2015

Reviewing and Refereeing:

Reviewer for: *National Science Foundation*, *American Philosophical Society*, *Social Sciences and Humanities Research Council (Canada)*

Referee for: *American Catholic Philosophical Quarterly*, *American Philosophical Quarterly*, *Australasian Journal of Philosophy*, *Broadview Press*, *The Bulletin of Symbolic Logic*, *Canadian Journal of Philosophy*, *Dialectica*, *Dialogue*, *Ergo*, *Erkenntnis*, *Grazer Philosophische Studien*, *History and Philosophy of Logic*, *The Journal for the History of Analytic Philosophy*, *The Journal of the History of Philosophy*, *The Journal of Philosophical Logic*, *The Journal of Philosophical Research*, *The Journal of Symbolic Logic*, *Linguistics and Philosophy*, *Mind*, *The Notre Dame Journal of Formal Logic*, *Nous*, *Oxford University Press*, *Philosophers' Imprint*, *Philosophia Mathematica*, *Philosophical Quarterly*, *Philosophical Studies*, *Philosophy and Phenomenological Research*, *The Review of Symbolic Logic*, *Studia Aristotelica*, *Synthese*, *Wadsworth Press*; various conferences.