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Curriculum Vitae of
John F. Horty

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Education

University of Pittsburgh: PhD in Philosophy, 1986
Oberlin College: BA in Philosophy and Classics, 1977

Professional Experience

Professor, Philosophy Department and Institute for Advanced Computer Studies, and Affiliate Professor, Computer Science Department, University of Maryland, 1999-present (Assistant Professor, 1990-94; Associate Professor, 1994-98; Chair, Philosophy Department, 2009-2012)
Co-Editor, *Journal of Philosophical Logic*, 2008-
Visiting Associate Professor, Philosophy Department, University of Pittsburgh, 1993
Research Scientist, Computer Science Department, Carnegie Mellon University, 1986-90 (Visiting Scientist, 1982-1984; Project Scientist, 1984-1986)

Honors and Awards

Graduation with Highest Honors, Oberlin College, 1977
Phi Beta Kappa, Oberlin College, 1977
Florence Frew Prize in Classics, Oberlin College, 1977
Andrew Mellon Fellowship, University of Pittsburgh, 1980
National Science Foundation Grants, 1990-91, 1990-93, 1997-2000
Netherlands Institute for Advanced Study Fellowship, 2011
Center for Advanced Study in the Behavioral Sciences at Stanford, Fellowship, 2011-12
Papers selected for *Philosopher's Annual* ("Ten Best Papers in Philosophy"), 1995, 2012
National Endowment for Humanities Fellowships, 1993-94, 2004-05, 2015-16
Best Paper Award, Sixteenth International Conference on Artificial Intelligence and Law, 2017

Research and Teaching Interests

Philosophical Logic
Artificial Intelligence
Cognitive Science
Philosophy of Language
Epistemology
Ethics
Philosophy of Law

Publications

Monographs

1. *Agency and Deontic Logic*. Oxford University Press (2001; paperback, 2008), xiv+192 pp.
2. *Frege on Definitions: A Case Study of Semantic Content*. Oxford University Press (2007; paperback, 2009), xiv+176 pp.
3. *Reasons as Defaults*. Oxford University Press (2012), xvi+256 pp.

Collections

1. *Logic, Rationality, and Interaction: Proceedings of the Second International Workshop* (Xiangdong He, John Horty and Eric Pacuit, eds). Springer Lecture Notes in Computer Science, vol. 5834, Springer (2009), xi+329 pp.
2. *Handbook of Deontic Logic and Normative Systems* (Dov Gabbay, John Horty, Xavier Parent, Ron van der Meyden, and Leendert van der Torre, eds). College Publications (2013), ix+634 pp.
3. *JPL40: The Fortieth Anniversary Issue* (John Horty and Frank Veltman, eds). Special issue of the *Journal of Philosophical Logic*, 2016.

Articles

1. A skeptical theory of inheritance in nonmonotonic semantic networks (John Horty, Richmond Thomason, and David Touretzky). In *Proceedings of the Sixth National Conference on Artificial Intelligence* (AAAI-87), Morgan Kaufmann Publishers (1987), pp. 358–363.

*** Honorable mention, Best Paper Award, AAAI-87.

2. A clash of intuitions: the current state of nonmonotonic multiple inheritance systems (David Touretzky, John Horty, and Richmond Thomason). In *Proceedings of the Tenth International Joint Conference on Artificial Intelligence* (IJCAI-87), Morgan Kaufmann Publishers (1987), pp. 476–482.
3. A calculus for inheritance in monotonic semantic nets (Richmond Thomason, John Horty, and David Touretzky). In *Proceedings of the Second International Symposium on Methodologies for Intelligent Systems*, North-Holland Publishing Company (1987), pp. 280–287.

An extended version appears as Technical Report CMU-CS-86-138, Computer Science Department, Carnegie Mellon University (1986), 24 pp.

4. Mixing strict and defeasible inheritance (John Horty and Richmond Thomason). In *Proceedings of the Seventh National Conference on Artificial Intelligence* (AAAI-88), Morgan Kaufmann Publishers (1988), pp. 427–432.
5. Logics for inheritance theory (Richmond Thomason and John Horty). In *Proceedings of the Second International Workshop on Nonmonotonic Reasoning*, Michael Reinfrank, Johan de Kleer, Matthew Ginsberg, and Eric Sandewall (eds.), Springer Verlag Lecture Notes in Artificial Intelligence, vol. 346, Springer Verlag (1989), pp. 220–237.
6. A skeptical theory of inheritance in nonmonotonic semantic networks (John Horty, Richmond Thomason, and David Touretzky). *Artificial Intelligence*, vol. 42 (1990), pp. 311–348.
An extended version including LISP code appears as Technical Report CMU-CS-87-175, Computer Science Department, Carnegie Mellon University (1987), 62 pp.
7. A skeptical theory of mixed inheritance. In *Truth or Consequences: Essays in Honor of Nuel Belnap*, Jon Michael Dunn and Anil Gupta (eds.), Kluwer Academic Publishers (1990), pp. 267–281.

8. Boolean extensions of inheritance networks (John Horty and Richmond Thomason). In *Proceedings of the Eighth National Conference on Artificial Intelligence* (AAAI-90), The MIT Press (1990), pp. 633–639.
 9. Reasoning about ignorance: a note on the Bush-Gorbachev problem (Sarit Kraus, Donald Perlis, and John Horty). *Fundamenta Informaticae*, vol. 15 (1991), pp. 325–332.
 10. Conditionals and artificial intelligence (John Horty and Richmond Thomason). *Fundamenta Informaticae*, vol. 15 (1991), pp. 301–323.
 11. A credulous theory of mixed inheritance. In *Inheritance Hierarchies in Knowledge Representation and Programming Languages*, Maurizio Lenzerini, Daniele Nardi, and Maria Simi (eds.), John Wiley and Sons Press (1991), pp. 13–28.
 12. A skeptic’s menagerie: conflictors, preemptors, reinstaters, and zombies in nonmonotonic inheritance (David Touretzky, Richmond Thomason, and John Horty). In *Proceedings of the Twelfth International Joint Conference on Artificial Intelligence* (IJCAI-91), Morgan Kaufmann Publishers (1991), pp. 478–483.
 13. Frege on the psychological significance of definitions. *Philosophical Studies*, vol. 69 (1993), pp. 113–153.
 14. View updates in stratified disjunctive databases (John Grant, John Horty, Jorge Lobo, and Jack Minker). *Journal of Automated Reasoning*, vol. 11 (1993), pp. 249–267.
 15. Deontic logic as founded on nonmonotonic logic. *Annals of Mathematics and Artificial Intelligence*, vol. 9 (1993), pp. 69–91.
 16. Nonmonotonic techniques in the formalization of commonsense normative reasoning. In *Proceedings of the Second Symposium on Logical Formalizations of Commonsense Reasoning*, Vladimir Lifschitz, John McCarthy, Leora Morgenstern, and Yoav Shoham (eds.), American Association for Artificial Intelligence Press (1993).
 17. Moral dilemmas and nonmonotonic logic. *Journal of Philosophical Logic*, vol. 23 (1994), pp. 35–65.
A preliminary version appears in *Proceedings of the First International Workshop on Deontic Logic in Computer Science*, John-Jules Charles Meyer and Roel Wieringa (eds.), Free University of Amsterdam (1991), pp. 212–231.
 18. Some direct theories of nonmonotonic inheritance. In *Handbook of Logic in Artificial Intelligence and Logic Programming, Volume 3: Nonmonotonic Reasoning and Uncertain Reasoning*, Dov Gabbay, Christopher Hogger, and John Robinson (eds.), Oxford University Press (1994), pp. 111–187.
 19. The deliberative stit: a study of action, omission, ability, and obligation (John Horty and Nuel Belnap). *Journal of Philosophical Logic*, vol. 24 (1995), pp. 583–644.
- *** Selected for *The Philosopher’s Annual, Volume 18* (“Ten Best Papers of 1995”), available at www.philosophersannual.org
20. Intentions as filters. In *Proceedings of the AAAI Fall Symposium on Rational Agency*, Michael Fehling, Donald Perlis, Martha Pollack, and John Pollock (eds.), American Association for Artificial Intelligence Press (1995), pp. 86–91.
 21. Agency and obligation. *Synthese*, vol. 108 (1996), pp. 269–307.
 22. Combining logics of agency and obligation. In *Deontic Logic, Agency, and Normative Systems: Proceedings of the Third International Workshop on Deontic Logic in Computer Science*, Mark Brown and Jose Carmo (eds.), Workshops in Computing Series, Springer Verlag (1996), pp. 98–122.
 23. Nondeterminism and dominance: foundations of planning and qualitative decision theory (Richmond Thomason and John Horty). In *Proceedings of the Sixth Conference on Theoretical Aspects of Rationality and Knowledge* (TARK-96), Yoav Shoham (ed.), Morgan-Kaufmann Publishing Company (1996), pp. 229–250.

24. Nonmonotonic foundations for deontic logic. In *Defeasible Deontic Logic*, Donald Nute (ed.), Kluwer Academic Publishers (1997), pp. 17–44.
25. Evaluating options in a context (John Horty and Martha Pollack). In *Proceedings of the Seventh Conference on Theoretical Aspects of Rationality and Knowledge (TARK-98)*, Itzhak Gilboa (ed.), Morgan-Kaufmann Publishing Company (1998), pp. 249–262.
26. Formal theories of commonsense reasoning. In *Routledge Encyclopedia of Philosophy*, Routledge and Kegan Paul (1998), pp. 451–453.
27. A unifying algorithm for conditional and probabilistic planning (Nilufer Onder, Martha Pollack, and John Horty). In *Proceedings of the AIPS'98 Workshop on Integrating Planning, Scheduling and Execution in Dynamic and Uncertain Environments*, Alexander Kott (ed.), American Association for Artificial Intelligence Press (1998), pp. 106–112.
28. Plan management issues for cognitive robotics (Martha Pollack and John Horty). In *Proceedings of the AAAI Fall Symposium on Cognitive Robotics*, Chitta Baral, Kurt Konolige, Gerhard Lakemayer, Raymond Reiter, and Murry Shanahan (eds.), American Association for Artificial Intelligence Press (1998), pp. 76–83.
29. There's more to life than making plans: plan management in dynamic, multi-agent environments (Martha Pollack and John Horty). *AI Magazine*, vol. 20 (1999), pp. 71–84.
30. Precedent, deontic logic, and inheritance. In *Proceedings of the Seventh International Conference on Artificial Intelligence and Law (ICAIL-99)*, Association for Computing Machinery Press (1999), pp. 63–72.
31. Adjustable autonomy for a plan management agent (Martha Pollack, Ioannis Tsamardinos, and John Horty). In *Proceedings of the AAAI Spring Symposium on Adjustable Autonomy*, American Association for Artificial Intelligence Press (1999).
32. Merging plans with quantitative temporal constraints, temporally extended actions, and conditional branches (Ioannis Tsamardinos, Martha Pollack, and John Horty). In *Proceedings of the Fifth International Conference on Artificial Intelligence Planning and Scheduling (AIPS-2000)*, American Association for Artificial Intelligence Press, pp. 264–272.

*** Winner of Best Student Paper Award, AIPS-2000.
33. Evaluating new options in the context of existing plans (John Horty and Martha Pollack). *Artificial Intelligence*, vol. 127 (2001), pp. 199–220.
34. Argument construction and reinstatement in logics for defeasible reasoning. *Artificial Intelligence and Law*, vol. 9 (2001), pp. 1–28.
35. Nonmonotonic logic. In *The Blackwell Guide to Philosophical Logic*, Lou Goble (ed.), Blackwell Publishers (2001), pp. 336–361.
36. Theory and semantics: the two stits (John Horty and Nuel Belnap). In *Facing the Future: Agents and Choices in Our Indeterministic World*, by Nuel Belnap, Michael Perloff, and Ming Xu, Oxford University Press (2001), pp. 29–39.
37. Skepticism and floating conclusions. *Artificial Intelligence*, vol. 135 (2002), pp. 55–72.
A preliminary version appears in *Working Notes of Common Sense 2001: The Fifth International Symposium on Logical Formalizations of Commonsense Reasoning*, Ernest Davis, John McCarthy, Leora Morgenstern, and Raymond Reiter (eds.), Courant Institute of Mathematical Sciences, New York University (2001), pp. 156–167.
38. Review of *The Structure of Values and Norms*, by Sven Ove Hansson, Cambridge University Press, 2001. In *Notre Dame Philosophical Reviews* (June, 2002).
Available online at <http://ndpr.nd.edu/review.cfm?id=1142>

39. Reasoning with moral conflicts. *Nous*, vol. 37 (2003), pp. 557–605.
40. The result model of precedent. *Legal Theory*, vol. 10 (2004), pp. 19–31.
41. Double time reference in the evaluation of actions. In *Modality Matters: Twenty-Five Essays in Honour of Krister Segerberg*, Henrik Lagerlund, Sten Lindström, and Ryszard Sliwinski (eds), Uppsala Philosophical Studies, vol. 53, Uppsala University Press (2006).
42. Reasons as defaults. *Philosophers' Imprint*, vol. 7, no. 3 (2007), 28 pp.
Translated as *Gründe als Defaults in Welt der Gründe: Beiträge zu den Kolloquien des XXII Deutschen Kongresses für Philosophie*, Julian Nida-Rümelin and Elif Özmen (eds.), Felix Meiner Verlag (2012).
43. Defaults with priorities. *Journal of Philosophical Logic*, vol. 36 (2007), pp. 367–413.
44. Perspectival act utilitarianism. In *Dynamic Formal Epistemology*, Patrick Girard, Mathieu Marion, and Olivier Roy (eds.), Synthese Library, vol. 351, Springer (2011), pp. 197–222.
45. Reasons and precedent. In *Proceedings of the Thirteenth International Conference on Artificial Intelligence and Law (ICAIL 2011)*, Association for Computing Machinery Press (2011), pp. 41–50.
46. Rules and reasons in the theory of precedent. *Legal Theory*, vol. 17 (2011), pp. 1–33.

*** Selected for *The Philosopher's Annual, Volume 31* (“Ten Best Papers of 2011”), available at www.philosophersannual.org
47. An appreciation of John Pollock’s work on the computational study of argument (Henry Prakken and John Horty). *Argument and Computation*, vol. 3 (2012), pp. 1–19.
48. A factor-based definition of precedential constraint (John Horty and Trevor Bench-Capon). *Artificial Intelligence and Law*, vol. 20 (2012), pp. 181–214.
49. Norm change in the common law. In *David Makinson on Classical Methods for Nonclassical Problems*, Sven Ove Hansson (ed.), Springer (2014), pp. 335–355.
50. Deontic modals: why abandon the standard semantics? *Pacific Philosophical Quarterly* (Special issue on Deontic Modality, Stephen Finlay and Mark Schroeder, eds.), vol. 95 (2014), pp. 424–460.
51. Stit logics, games, knowledge, and freedom (Roberto Ciuni and John Horty). In *Johan van Benthem on Logical and Informational Dynamics*, Alexandru Baltag and Sonja Smets (eds.), Springer (2014), pp. 631–656.
52. Requirements, oughts, intentions. *Philosophy and Phenomenological Research* (Book symposium contribution on John Broome’s *Rationality through Reasoning*), vol. 91 (2015), pp. 220–229.
53. Constraint and freedom in the common law. *Philosophers' Imprint*, vol. 15, no. 5 (2015), 27 pp.
54. Reasoning with precedent as constrained natural reasoning. In *Weighing Reasons*, Errol Lord and Barry Maguire (eds.), Oxford University Press (2016), pp. 193–212.
55. Reasoning with dimensions and magnitudes (preliminary version). In *Proceedings of the Sixteenth International Conference on Artificial Intelligence and Law (ICAIL 2017)*, Association for Computing Machinery Press (2017), pp. 109–118.

*** Winner of the Carol Hafner Best Paper Award, ICAIL 2017.
56. Action types in stit semantics (John Horty and Eric Pacuit). *Review of Symbolic Logic*, vol. 10 (2017), pp. 617–637.
57. Epistemic oughts in stit semantics (preliminary version). In *Proceedings of the Fourteenth International Conference on Deontic Logic and Normative Systems (DEON 2018)*, Jan Broersen, Cleo Condoravdi, Shyam Nair, and Gabriella Pigozzi (eds.), College Publications (2018), pp. 157–176.

58. The logic of reasons (Shyam Nair and John Horty). In *The Oxford Handbook of Reasons and Normativity*, Daniel Star (ed.), Oxford University Press (2018), pp. 67–84.
59. Reasoning with dimensions and magnitudes. Forthcoming in *Artificial Intelligence and Law*.
60. Epistemic oughts in stit semantics. Forthcoming in *Ergo*.
61. Deontic logic (John Horty and Olivier Roy). Forthcoming in *Handbook of Rationality*, Markus Knauff and Wolfgang Spohn (eds), MIT press.

Invited Presentations

Keynote/Plenary Talks and Special Events

- Keynote, The Fifth International Workshop on Deontic Logic in Computer Science (DEON 2000). Paul Sabatier University, Toulouse, France, April 2000
- Keynote, The Ninth International Workshop on Nonmonotonic Reasoning. Paul Sabatier University, Toulouse, France, April 2002
- Keynote, Society for Exact Philosophy, Thirty Fifth Annual Meeting. University of British Columbia, Vancouver, Canada, May 2007
- Alice Ambrose Lazerowitz/Thomas Tymoczko Memorial Logic Lecture. Five Colleges Logic Program, Amherst, Massachusetts, December 2010
- Keynote, The Eleventh International Workshop on Deontic Logic in Computer Science (DEON 2012). University of Bergen, Bergen, Norway, July 2012
- Keynote, Workshop on Formal Ethics. Munich Center for Mathematical Philosophy, Munich, Germany, October 2012
- E. W. Beth Foundation Lecture. University of Amsterdam, Amsterdam, The Netherlands, December 2013
- Author Meets Critics session on *Reasons as Defaults*. American Philosophical Association, Central Division Meeting, Chicago, February 2014
- Keynote, Trends in Logic XIV. University of Ghent, Ghent, Belgium, July, 2014
- Inaugural Lecture, The Center for the Advancement of Logic, its Philosophy, History and Applications (C-ALPHA). University of California at Irvine, Irvine, California, May 2014
- Keynote, Twelfth Annual Formal Epistemology Workshop (FEW-2015). Washington University, St Louis, Missouri, May 2015
- Keynote, Workshop on Norms, Actions, and Games (NAG). Paul Sabatier University, Toulouse, France, June 2016

Department Colloquia

- Carnegie Mellon University, Philosophy Department Colloquium, February 1988
- Carnegie Mellon University, Computer Science Department Colloquium, March 1988
- University of Maryland, Computer Science Department, February 1988
- Oberlin College, Philosophy Department Colloquium, March 1990
- University of Pittsburgh, Philosophy Department Colloquium, October 1993
- University of Texas at Austin, Philosophy Department Colloquium, February 1993
- Stanford University, Philosophy Department Colloquium, 1994
- University of Calgary, Philosophy Department Colloquium, April 1995
- Indiana University, Logic Program Colloquium, October 1998

New York University, Computer Science Department Colloquium, May 2001
 City University of New York, Logic Group Colloquium, April 2002
 University of Michigan, Philosophy Department Colloquium , April 2003
 University of California at Irvine, Logic and Philosophy of Science Colloquium, April 2004
 University of Miami, Philosophy Department Colloquium, October 2005
 University of British Columbia, Philosophy Department Colloquium, February 2006
 University of Utrecht, Computer Science Department Colloquium, October 2007
 University of Amsterdam, Logic Group Colloquium, February 2011
 University of Southern California, Philosophy Department Colloquium, February 2011
 University of Groningen, Philosophy Department Colloquium, April 2011
 University of Missouri, Philosophy Department Colloquium, May 2011
 Stanford University, Philosophy Department Colloquium, April 2012
 University of Delaware, Philosophy Department Colloquium, February 2013
 UCLA, Philosophy Department Colloquium, February 2013
 University of Michigan, Philosophy Department Colloquium, March 2013
 University of Konstanz, Philosophy Department Colloquium, December 2014
 University of Toronto, Computer Science and Philosophy Joint Colloquium, January 2015
 University of California at Irvine, Logic and Philosophy of Science Colloquium, February 2016
 Johns Hopkins University, Philosophy Department Colloquium, March 2017
 UCLA, Philosophy Department Colloquium, April 2017
 University of Chicago, Linguistics and Philosophy Workshop, September 2017
 Simon Fraser University, Philosophy Department Colloquium, March 2019 (scheduled)
 University of Edinburgh, Law School Colloquium, June 2019 (scheduled)

Other Invited Presentations

Workshop on Inheritance Hierarchies in Knowledge Representation and Programming Languages. Sponsored by the European Economic Community COST 13 Project on Advanced Issues in Knowledge Representation. Viareggio, Italy, February 1989
 AAI Workshop on Defeasible Reasoning with Specificity and Multiple Inheritance. St. Louis, Missouri, April 1989
 Workshop on Nonmonotonic Reasoning. Philosophy Department, University of Texas, Austin, March 1992.
 Second AAI Symposium on Logical Formalizations of Commonsense Reasoning. University of Texas, Austin, June 1993.
 AAI Spring Symposium on Artificial Intelligence. Stanford University, Palo Alto, April 1993
 D. C. Williams Fund Workshop on Concepts in Cognitive Science. Philosophy Department, University of Maryland, College Park, April 1993.
 AAI Fall Symposium in Artificial Intelligence. Boston, Massachusetts, November 1995
 The Second Workshop on Advances in Modal Logic (AiML 1998). Uppsala University, Sweden, October 1998
 Symposium on Planning and Rationality, American Philosophical Association, Eastern Division Meeting, New York, December 2000
 Workshop on Logics for Action. Philosophy Department, Uppsala University, Sweden, November 2001

Workshop on Philosophical Logic and Applications. Philosophy Department, City University of New York, New York, September 2002

Workshop on the Formal Philosophy of Action. Philosophy Department, University of Southern California, Los Angeles, March 2004

Workshop on Moral Particularism. Philosophy Department, University of Texas, Austin, February 2006

Logical Methods in Exact and Social Sciences: A Conference to Commemorate the 70th Birthday of Rohit Parikh. Graduate Center, City University of New York, New December 2006

Dynamic Logic Montreal. University of Quebec, Canada, June 2007

Symposium on Artificial Normative Systems. Computer Science Department, University of Utrecht, The Netherlands, September 2007

RUC/ILLC Workshop On Deontic Logic. Philosophy Department, Roskilde University, Denmark, November 2007

Third Formal Epistemology Festival. Philosophy Department, University of Toronto, Canada, May 2010

Symposium on New Directions in Logic, American Philosophical Association, Eastern Division Meeting, New York, December 2010

The XXII Congress of the German Society for Philosophy (DGPhil). Munich, Germany, September 2011.

Memorial Conference in Honor of John Pollock. Philosophy Department, University of Arizona, Tucson, March 2012

The First CSLI Workshop on Logic, Rationality, and Intelligent Interaction. Center for the Study of Language and Information, Stanford University, Palo Alto, June 2012

Conference on Weighing Reasons. Philosophy Department, Princeton University, Princeton, December 2012

Conference on Deontic Modality. Philosophy Department, University of Southern California, Los Angeles, May 2013

Symposium on New Work on Intensional and Epistemic Logics, Association of Symbolic Logic/American Philosophical Association Joint Session, Pacific Division Meeting, San Diego, April 2014

Workshop on Inference. Center for the Study of Mind in Nature, University of Oslo, Norway, June 2014

Henle Conference on the Nature of Necessity. Philosophy Department, Saint Louis University, St. Louis, April 2016

Workshop on Responsible Intelligent Systems. Computer Science Department, University of Utrecht, The Netherlands, April 2016

Seminar on Engineering Moral Agents: From Human Morality to Artificial Morality. Leibniz Center for Informatics, Schloss Dagstuhl, Germany, May/June 2016

Foundations of Normativity Workshop. Departments of Philosophy, Law, and Politics, University of Edinburgh, United Kingdom, June 2017

Workshop on Logical Representation of Actions, Attitudes, and Collective Attitudes, IRIT, University of Toulouse III (Paul Sabatier), France, July 2017

Workshop on Legal Reasoning. Law School, National University of Singapore, Singapore, Summer 2020 (scheduled)

Fellowships, Grants, Contracts

Fellowships

National Endowment for Humanities, Fellowship for University Teachers, 1993-94
National Endowment for Humanities, Fellowship for University Teachers, 2004-05
Netherlands Institute for Advanced Studies, 2011
Center for Advanced Study in the Behavioral Sciences at Stanford University, 2011-12
National Endowment for Humanities, Fellowship for University Teachers, 2014-15

Grants and Contracts

National Science Foundation grant IST-8700705, 1987-89, \$262,877 (with Richmond Thomason and David Touretzky). Project title: *Logical Foundations of Inheritance Reasoning and Knowledge Update*.
National Science Foundation grant IRI-8907122, 1990-91, \$61,533 (with Donald Perlis). Project title: *Nonmonotonicity: Scope and Ignorance*.
National Science Foundation grant IRI-9003165, 1990-93, \$377,173 (with Richmond Thomason and David Touretzky). Project title: *Inheritance Theory: Logic and Knowledge Bases*.
National Science Foundation grants IRI-9619562 and IRI-9619579, 1997-2000, \$361,327 (with Martha Pollack). Project title: *Plan Management in Dynamic Environments*.
Defense Advanced Research Projects Agency contract F30602-00-2-0621, 2000-04, approximately \$850,000 (with Martha Pollack). Project title: *A Formal Theory of Agent Based Computing*.

Academic Service

Professional Service

Offices:

Steering Committee Member, Society for Deontic Logic and Normative Systems (formerly, Deontic Logic in Computer Science), 2008-
Board Member, The Evert Willem Beth Foundation, Royal Netherlands Academy of Arts and Sciences, 2013-

Editorial Service:

Editor, *Journal of Philosophical Logic*, 2008-
Editorial Board, *Legal Theory*, 2009-
Editorial Board, *Journal of Logic and Computation*, 2009-
Editorial Board, *Studies in Logic*, 2007-

Evaluation Committees:

Accreditation Committee, Masters of Logic Program, Institute of Logic, Language, and Computation, University of Amsterdam, June 2013
Fellows Selection Committee, Center for Advanced Study in the Behavioral Sciences at Stanford University, January 2014
Advisory Board, Philosophical Gourmet Report, 2014-
Habilitation examination, Ruhr University Bochum, Germany, 2015
Habilitation examination, University Paul Sabatier, France, 2016
Member, ERC panel SH4 (The Human Mind and its Complexities), European Research Council, March 2017, June 2017, various dates in 2019
Many external PhD examinations ...
Many, many tenure evaluations ...

Conference and Workshop Chairs:

Co-chair, Program Committee, AAAI Spring Symposium in Artificial Intelligence (Reasoning about Mental States: Formal Theories and Applications). Stanford, California, March 1993.

Local Arrangements Chair, Fourth International Conference on Artificial Intelligence and Law (ICAIL-95). College Park, Maryland, May 1995.

Co-chair, Program Committee, Sixth International Workshop on Deontic Logic in Computer Science (DEON-02). London, England, May 2002.

Co-chair, Program Committee, Workshop on Logic, Rationality, and Interaction (LORI-2009). Chongqing, China, October 2009.

Conference and Workshop Program Committees:

First International Workshop on Logic Programming and Nonmonotonic Reasoning. Washington, DC, July 1991.

Tenth National Conference on Artificial Intelligence (AAAI-92). San Jose, California, June 1992.

IJCAI-93 Workshop on Conditionals in Knowledge Representation. Chambéry, France, August 1993.

Third International Workshop on Deontic Logic in Computer Science (DEON-96). Lisbon, Portugal, January 1996.

Fourteenth National Conference on Artificial Intelligence (AAAI-97). Providence, Rhode Island, August 1997.

Fourth International Workshop on Deontic Logic in Computer Science (DEON-98). University of Bologna, Italy, January 1998.

Seventh International Conference on Theoretical Aspects of Rationality and Knowledge (TARK-98). Northwestern University, Evanston, Illinois, June 1998.

Fifteenth National Conference on Artificial Intelligence (AAAI-98). Madison, Wisconsin, July 1998.

IJCAI-99 Workshop on Practical Reasoning and Rationality. Stockholm, Sweden, July 1999.

NSF Workshop on Logic-based Artificial Intelligence, sponsored by the NSF. Washington, DC, June 1999.

Ninth International Workshop on Nonmonotonic Reasoning (NMR-2002). Paul Sabatier University, Toulouse, France, April 2002.

Eighteenth International Joint Conference on Artificial Intelligence (IJCAI-03). Acapulco, Mexico, August 2003.

Seventh International Workshop on Deontic Logic in Computer Science (DEON-04). Madeira, Portugal, May 2004.

Tenth International Workshop on Nonmonotonic Reasoning (NMR-2004). Whistler, British Columbia, Canada, June 2004.

Third North American Summer School on Logic, Language, and Information (NASSLLI-2004). UCLA, Los Angeles, California, June 2004.

Tenth International Conference on Theoretical Aspects of Rationality and Knowledge (TARK-05). Singapore, June 2005.

Eighth International Workshop on Deontic Logic in Computer Science (DEON-06). University of Utrecht, The Netherlands, July 2006.

First International Conference on Computational Models of Argument. University of Liverpool, England, September 2006.

Eighth International Symposium on Logical Formalizations of Commonsense Reasoning (Commonsense-07). Stanford University, Palo Alto, California, March 2007.

Third Multidisciplinary Workshop on Advances in Preference Handling (M-PREF 2007, held in conjunction with VLDB-07). Vienna, Austria, September 2007

Ninth International Workshop on Deontic Logic in Computer Science (DEON-08). University of Luxembourg, Luxembourg July 2008.

Workshop on Logic and Intelligent Interaction, European Summer School of Logic, Language, and Information (ESSLLI-08). Hamburg, Germany, August 2008.

Ninth International Symposium on Logical Formalizations of Commonsense Reasoning (Commonsense-09). University of Toronto, Canada, May 2009.

Workshop on Logical Methods and Social Concepts, European Summer School of Logic, Language, and Information (ESSLI-09). Bordeaux, France, July 2009.

Ninth Augustus De Morgan Workshop. University of Luxembourg, Luxembourg, December 2009.

North American Summer School of Logic, Language, and Information (NASSLLI-2010). Indiana University, Bloomington, Indiana, July 2010.

Third International Conference on Computational Models of Argument. Desenzano del Garda, Italy, September 2010.

Third International Workshop on Logic, Rationality, and Interaction (LORI-2011). Guangzhou, China, October 2011.

Thirteenth International Conference on Principles of Knowledge Representation and Reasoning (KR-2012). Rome, Italy, June 2012.

Fourth International Conference on Computational Models of Argument. University of Vienna, Austria, September 2012.

Fourteenth International Conference on Artificial Intelligence and Law (ICAIL 2013). Rome, Italy, June 2013.

Workshop on Logical Models of Group Decision Making. European Summer School of Logic, Language, and Information (ESSLI-2013). Duesseldorf, Germany, August 2013.

Nineteenth Amsterdam Colloquium. University of Amsterdam, The Netherlands, December 2013.

North American Summer School of Logic, Language, and Information (NASSLLI-2014). University of Maryland, College Park, Maryland, July 2014.

Norms, Actions, Games. Imperial College, London, England, April 2014.

Formal Ethics 2014. University of Rotterdam, The Netherlands, May 2014.

Twelvth International Workshop on Deontic Logic (DEON 2014). University of Ghent, Belgium, July 2014.

Sixth Indian Conference on Logic and its Applications (ICLA 2015). Chennai, India, January 2015.

Fifth International Workshop on Logic, Rationality, and Interaction (LORI-2015). Taipei, Taiwan, October 2015.

Twelfth International Symposium on Logical Formalizations of Commonsense Reasoning (Commonsense-2015). AAAI Spring Symposium in Artificial Intelligence. Palo Alto, California, March 2015.

Formal Ethics 2015. Bayreuth, Germany, July 2015.

Fifteenth International Conference on Artificial Intelligence and Law (ICAIL 2015). San Diego, California, June 2015.

Workshop on Lightweight Ontological Languages and Answer Set Programming for Query Answering. International Joint Conference on Artificial Intelligence (IJCAI-2015). Buenos Aires, Argentina, July 2015.

Formal Epistemology Workshop. University of Groningen, The Netherlands, June 2016.

North American Summer School of Logic, Language, and Information (NASSLLI-2016). Rutgers University, New Jersey, July 2016.

Twelvth International Workshop on Deontic Logic (DEON 2016). University of Bayreuth, Germany, July 2016.

Sixteenth International Conference on Theoretical Aspects of Rationality and Knowledge (TARK 2017). Liverpool, UK, 2017.

Sixteenth International Conference on Artificial Intelligence and Law (ICAIL 2017). London, UK, June 2017.

Thirteenth International Symposium on Logical Formalizations of Commonsense Reasoning (Commonsense-2017). London, UK, November 2017.

Fifth International Workshop on Logic, Rationality, and Interaction (LORI-2017). Hokkaido University, Sapporo, Japan, September 2017.

Formal Epistemology Workshop. University of Toronto, Canada, June 2018.
Fifteenth International Conference on Artificial Intelligence and Law (ICAIL 2019). Montreal, Canada, July 2019.

University Service (at University of Maryland)

Faculty advisor, Summer Program in Computer Science for High School Students, Institute for Advanced Computer Studies, 1990
Library Representative, Philosophy Department, 1989-90
Faculty Search Committee, Computer Science Department, 1991
Scheduling and Curriculum Committee, Philosophy Department, 1992
Undergraduate Advising Staff, Philosophy Department, 1992
Departmental Meeting Secretary, Philosophy Department, 1992
Faculty Search Committee, Philosophy Department, 1992
Salary Committee, Philosophy Department, 1995, 1996, 1999, 2000
Fellowship Committee, Institute for Advanced Computer Studies, 1998, 1999
Faculty Search Committee, Philosophy and Linguistic Departments, 1997
Chair Search Committee, Philosophy Department, 2000
Chair, Committee to Restructure Graduate Program, Philosophy Department, 1999-2000
Salary Committee, Institute for Advanced Computer Studies, 2000
Chair, Chair's Advisory Committee, Philosophy Department, 2000-03
Graduate Affairs Committee, Philosophy Department, 2000-03
Chair, Faculty Search Committee, Philosophy Department, 2001-02
Chair, Appointment, Promotion, and Tenure Committee, Philosophy Department, 2002-03
University Senate Representative, Institute for Advanced Computer Studies, 2003-04
Philosophy Department Chair Review Committee, College of Arts and Humanities, 2005
Chair, Graduate Affairs Committee, Philosophy Department, 2004-07
Course Scheduling Committee, Philosophy Department, 2004-07
Director of Graduate Studies, Philosophy Department, 1990-92, 1995-96, 1998, 2000, 2004-07
Chair, Philosophy Department, 2009-12
Chair, Faculty Research and Scholarship Awards Committee, The Graduate School, 2012
Salary Committee, Philosophy Department, 2012-2013
Learning Outcomes Coordinator, Philosophy Department, 2012-2015
Chair, Appointment, Promotion, and Tenure Committee, Philosophy Department, 2017
University Senate Representative, 2017 -