PATRICK GRIM

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Stony Brook University
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Philosopher in Residence
Center for Study of Complex Systems
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Specializations

Philosophical Logic, Philosophical Computer Modeling (Agent-Based Modeling, Networks, Artificial Societies, and Evolutionary Game Theory), Ethics, Philosophy of Religion, Philosophy of Science

Positions

University of Michigan
Philosopher in Residence, Visiting Professor, Lecturer
Center for Study of Complex Systems, 2013 –
Marhsall Weinberg Distinguished Visiting Professor
Philosophy, 2006

Stony Brook
Distinguished Teaching Professor Emeritus, 2016 -
Distinguished Teaching Professor, 2001 - 2016
Full Professor, 1994-
Associate Professor, 1985-1994
Assistant Professor, 1978-1985
Visiting Assistant Professor, 1976-1977

Washington University, St. Louis: Mellon Faculty Fellow, 1977-1978

Honors and Research Positions

Marshall Weinberg Distinguished Visiting Professor, University of Michigan, Ann Arbor, 2006
Visiting Scholar, Center for Study of Complex Systems, University of Michigan, 2005, 2009, 2011-2015.
Visiting Scholar, Philosophy, University of Michigan 2009, 2011
Visiting Fellow, Center for Philosophy of Science, University of Pittsburgh, 2007
SUNY Distinguished Teaching Professor, 2001
Academy of Teachers/Scholars, SUNY Stony Brook, 1996
Chancellor's Award for Excellence in Teaching, SUNY system, 1988
President's Award for Excellence in Teaching, Stony Brook, 1988
University Research Award, Stony Brook, 1980
Mellon Faculty Fellow, Washington University, 1977-1978
Fulbright Fellow, 1970-1971
Highest Honors in Anthropology and Philosophy, 1971, University of California at Santa Cruz

Education

Ph.D., philosophy, 1976, Boston University
A.M., philosophy, 1976, Boston University
B.Phil., philosophy, 1975, University of St. Andrews, Scotland
A.B., philosophy and anthropology, 1971, University of California at Santa Cruz

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Books

Reflexivity: From Paradox to Consciousness
Patrick Grim & Nicholas Rescher. Ontos Verlag 2012

Beyond Sets: Toward A Theory of Collectivities
Nicholas Rescher & Patrick Grim. Ontos Verlag, 2011

The Philosophical Computer: Exploratory Essays in Philosophical Computer Modeling.
With Gary Mar, Paul St. Denis, and the Group for Logic & Formal Semantics. MIT Press, 1998.

The Incomplete Universe: Totality, Knowledge, and Truth. MIT Press, 1991.

Mind & Consciousness: 5 Questions
Interviews with Ned Block, David Chalmers, Daniel Dennett, Frank Jackson, Hilary Putnam, John Searle, Galen Strawson, and others working in Philosophy of Mind and Cognitive Science. VIP Automatic Press, 2009.

The Philosopher's Annual, **Volumes I through XXXVII**. Founding co-editor. Basil Blackwell, Rowman and Littlefield, Ridgeview Press, CSLI and Univ. of Chicago Press, 1979-2004. Bibliographical details on p. 20.

Philosophy of Science and the Occult. Editor. SUNY Press, 1st edition 1982, 2nd edition 1991.

Editorship

Editor, **American Philosophical Quarterly**, 2019 –

Editor, with introduction, Topical Issue "Computer Modeling in Philosophy," **Open Philosophy** 2019 (1).

Guest Editor, with introduction, Special Issue on Epistemology of Modeling and Simulation, **Journal of Experimental and Theoretical Artificial Intelligence**, 24 (3) Summer 2012, 271-417.
An edited collection of papers from the Epistemology of Modeling and Simulation Conference, University of Pittsburgh, April 2011. Papers by Ian Lustick, Brandon Alcorn, Michael Garces & Alicia Rivinsky; Rory Smead; Melinda Fagan; Peter Almkov, Thomas Østerlie & Torgeir Haavik; Muniza Rehman & Stig Pedersen; Koray Karaca; Whit Schonbein; and Givanni Camardi.

Guest editor, with introduction, Special Issue on Epistemology of Modeling and Simulation II **Journal of Experimental and Theoretical Artificial Intelligence**, 24 (4) Fall 2012, 419-559.
An edited collection of papers from the Epistemology of Modeling and Simulation Conference, University of Pittsburgh, April 2011. Papers by Peter Lane & Fernand Gobet; Levent Yilmaz; Derek Jones; Nina Atanasova; Lisa Warenski; Roger Stanev; and Paolo Palmieri

"Epistemology of Modeling and Simulation: Variations on a Theme," **Philosophy and Technology**, 26 (1) March 2013, 73-91. With papers from the conference by Nicholas Rescher and Gerhard König.

Lecture Series

Questions of Value. 24 lectures in ethics and value theory. Audio, video, DVD and printed transcript. The Teaching Company, Chantilly VA, 2004.

Philosophy of Mind: Brains, Thinking Machines, and the Mysteries of Consciousness. 24 lectures on interdisciplinary issues in philosophy of mind, psychology, and neuroscience. Audio, video, DVD and printed transcript. The Teaching company, Chantilly VA 2008.

The Philosopher's Toolkit: How To Be The Most Rational Person In Any Room. 24 lectures in informal logic. The Teaching Company, Chantilly VA, 2012.

Mind-Body Philosophy. 24 further lectures in philosophy of mind, psychology, and the brain sciences. Audio, video, DVD and printed transcript. The Teaching company, Chantilly VA 2016.

Articles

Computational Modeling

"Computational Philosophy" (with Daniel J. Singer), **Stanford Encyclopedia of Philosophy,** forthcoming and ongoing.

"Philosophy of Science, Network Theory, and Conceptual Change: Paradigm Shifts as Information Cascades" (with Joshua Kavner, Lloyd Shatkin & Manjari Trivedi), in Euell Elliot and L. Douglas Kiel, **Complex Systems in the Social and Behavioral Sciences: Theory, Method, and Application,** Ann Arbor: University of Michigan Press, forthcoming.

"Don't Forget Forgetting: The Social Epistemic Importance of How We Forget" (Daniel J. Singer, Aaron Bramson, Patrick Grim, Bennett Holman Karen Kovaka, Jiin Jung & William J. Berger), **Synthese** 2019, https://doi.org/10.1007/s11229-019-02409-0

"A Multidisciplinary Understanding of Polarization" (Jiin Jung, Patrick Grim, Daniel J. Singer, Aaron Bramson, William J. Berger, Bennett Holman and Karen Kovaka), **American Psychologis**t 74 (2019), 301-314.

"Modeling Epistemology: Examples and Analysis in Computational Philosophy of Science," in A. Del Barrio, C. J. Lynch, F. J. Barros, X. Hu and A. D'Ambrogio, eds., *2019 Spring Simulation Conference, SpringSim 2019 Proceedings*, IEEE 2019, 1-12. https://dblp.org/rec/conf/springsim/Grim19

"Diversity, Ability and Expertise in Epistemic Communities" (with Daniel J. Singer, Aaron Bramson, Bennett Holman, Sean McGeehan & William J. Berger), **Philosophy of Science** 86 (2019): 98-123.

"Representation in Models of Epistemic Democracy" (with Aaron Bramson, Daniel J. Singer, William J. Berger, Jiin Jung & Scott E. Page), **Episteme,** published online December 2018.

"How Stable is Democracy?" (with Mengzhen Liu, Krishna C. Bathina, Naijia Liu, and Jake William Gordon). **Journal on Policy and Complex Systems** 4 (2018), 87-108.

"Diversity and Democracy: Agent-Based Modeling in Political Philosophy" (with Bennett Holman, William J. Berger, Daniel Singer, & Aaron Bramson), in Dominik Klein, Johannes Marx & Kai Fishbach, eds., special issue on Agent-Based Modeling in Social Science, History, and Philosophy. **Historical Social Research** 43 (2018), 259-284.

"Coherence and Correspondence in the Network Dynamics of Belief Suites" (with Andrew Modell, Nicholas Breslin, Jasmine McNenny, Irina Mondescu, Kyle Finnegan, Robert Olsen, Chanyu An, & Alexander Fedder) **Episteme** 14 (2017), 233-253.

"Understanding Polarization: Meanings, Measures, and Model Evaluation" (with Aaron Bramson, Daniel J.

Singer, William J. Berger, Graham Sack, Steven Fisher, Carissa Flocken, and Bennett Holman) **Philosophy of Science** 84 (2017), 115-159.

"Disambiguation of Social Polarization Concepts and Measures" (with Aaron Bramson, Daniel J. Singer, Steven Fisher, William Berger, Graham Sack, and Carissa Flocken) **Journal of Mathematical Sociology** 40 (2016), 80-111.

"Modeling Interaction Effects in Polarizaiton: Individual Media Influence and the Impact of Town Meetings (with Eric Pulick, Patrick Korth, and Jiin Jung) , **Journal of Artificial Societies and Social Simulation** 19 (2) 2016. <http://jasss.soc.surrey. ac.uk/ 19/2/1.html> DOI: 10.18564/jasss.3021

"Modeling Information," **Routledge Handbook of Philosophy of Information**, ed. Luciano Floridi. New York: Routledge 2016, pp. 137-152,

"Germs, Genes, and Memes: Functional and Fitness Dynamics on Information Networks" (with Daniel J. Singer, Christopher Reade, and Steven Fisher) **Philosophy of Science** 82 (2015), 219-243.

"Scientific Networks on Data Landscapes: Question Difficulty, Epistemic Success, and Convergence" (with Daniel J. Singer, Steven Fisher, Aaron Bramson, William J. Berger, Christopher Reade, Flocken and Adam Sales), **Episteme** 10 (2013), 441-464.

"Philosophical Analysis in Modeling Polarization: Notes from a Work in Progress" (with Aaron Bramson Daniel J. Singer, Steven Fisher, Carissa Flocken, and William Berger), **American Philosophical Association Newsletter on Philosophy and Computers** 12 (2012), 7-15. Reprinted in Paul Youngman and Mirsad Hadzikadik, ed., **Complexity and the Human Experience: Modeling Complexity in the Humanities and Social Sciences**, Pan Stanford, 2013

"How Simulations Fail" (with Robert Rosenberger, Brian Anderson, Adam Rosenfeld, and Robb E. Eason), **Synthese**. 190: 2367-2390, 2013.

"Epistemology of Modeling and Simulation: Variations on a Theme," **Philosophy of Technology** 26 (2013), 73-74.

"How Modeling Can Go Wrong: Some Cautions and Caveats on the Use of Models, " with Nicholas Rescher. **Philosophy and Technology** 26 (2013), 75-80.

"Polarization and Belief Dynamics in the Black and White Communities: An Agent-Based Network Model from the Data" (with Stephen B. Thomas, Steven Fisher, Christopher Reade, Daniel Singer, Mary A. Garza, Craig S. Fryer, and Jamie Chatman). **Artificial Life 13**, MIT Press, 2012.

"Information Dynamics across Linked Sub-Networks: Germs, Genes, and Memes" (with Daniel J. Singer, Christopher Reade, and Steven Fisher), **Proceedings, AAAI Fall Symposium on Complex Adaptive Systems: Energy, Information and Intelligence**, FS-11-03, AAAI Press 2011.

"Simulating Grice: Emergent Pragmatics in Spatialized Game Theory," in Anton Benz, Christian Ebert, and Robert van Rooij, **Language, Games, and Evolution**, Springer-Verlag, 2011.

"What You Believe Travels Differently: Information and Infection Dynamics Across Sub-Networks," (with Christopher Reade, Daniel J. Singer, Steven Fisher, and Stephen Majewicz), **Connections** 30, 2010, 50-63.

"Robustness across the Structure of Sub-Networks: The Contrast between Infection and Information Dynamics," (with Christopher Reade, Daniel J. Singer, Steven Fisher, and Stephen Majewicz), **Proceedings, AAAI Fall Symposium on Complex Adaptive Systems: Resilience, Robustness, and Evolvability**, FS-10-03, 2010.

"Concrete Images for Abstract Questions: A Philosophical View," in Timothy Engström and Evan Selinger, **Rethinking Theories and Practices of Imaging**, Palgrave Macmillan 2009.

"Threshold Phenomena in Epistemic Networks," **Proceedings, AAAI Fall Symposium on Complex Adaptive Systems and the Threshold Effect**, FS-09-03, AAAI Press 2009.

"A Graphic Measure for Game-Theoretic Robustness," (with Randy Au, Nancy Louie, Robert Rosenberger, William Braynen, Evan Selinger, and Robb Eason), **Synthese** 163 (2008), 273-297.

"What Kind of Science is Simulation?" (with Robb Eason, Evan Selinger, and Rob Rosenberger), **Journal of Experimental and Theoretical Artificial Intelligence** 19 (2007), 19-28.

"Environmental Variability and the Emergence of Meaning: Simulational Studies across Imitation, Genetic Algorithms, and Neural Nets" In Angelo Loula, Ricardo Gudwin and Jao Queiroz (Eds), **Artificial Cognition Systems**, Idea Group Inc., 2006, pp. 284-326.

"Game-Theoretic Robustness in Cooperation and Prejudice Reduction: A Graphic Measure" (with Randy Au, Nancy Louie, Robert Rosenberger, William Braynen, Evan Selinger, and Robb E. Eason), in **Artificial Life X: Proceedings of the Tenth International Conference on the Simulation and Synthesis of Living Systems**. Luis M. Rocha, Larry S. Yaeger, Mark A. Bedau, Dario Floreano, Robert L. Goldstine, and Allesandro Vespignani, eds. MIT Press, 2006, 445-451.

"Location, Location, Location: The Importance of Spatialization in Modeling Cooperation and Communication," (with Stephanie Wardach and Vincent Beltrani) **Interaction Studies: Social Behavior and Communication in Biological and Artificial Systems** 7 (2006), 43-78.

"Modeling Prejudice Reduction: Spatialized Game Theory and the Contact Hypothesis" (with Evan Selinger, William Braynen, Robert Rosenberger, Randy Au, Nancy Louie, and John Connolly). **Public Affairs Quarterly** 19 (2005), 95-126.

"Making Meaning Happen" (with Trina Kokalis, Ali Alai-Tafti, Nick Kilb, and Paul St. Denis), **Journal for Experimental and Theoretical Artificial Intelligence** 16 (2004), 209-244.

"Reducing Prejudice: A Spatialized Game-Theoretic Model for the Contact Hypothesis," (with Evan Selinger, William Braynen, Robert Rosenberger, Randy Au, Nancy Louie, and John Connolly),), in **Artificial Life IX: Proceedings of the Ninth International Conference on Artificial Life**, ed. Jordan Pollack, Mark Bedau, Phil Husbands, Takashi Ikegami, and Richard A. Watson. Cambridge: MIT Press, 2004, 244-250.

"Boom and Bust: Environmental Variability Favors the Emergence of Communication, " (with Trina Kokalis), in **Artificial Life IX: Proceedings of the Ninth International Conference on Artificial Life**, ed. Jordan Pollack, Mark Bedau, Phil Husbands, Takashi Ikegami, and Richard A. Watson. Cambridge: MIT Press, 2004, 164-170.

"Information and Meaning: Use-Based Models in Arrays of Neural Nets," (with Paul St. Denis and Trina Kokalis), **Minds and Machines** 14 (2004), 43-66.

"Computational Modeling as a Philosophical Methodology," in **The Blackwell Guide to Philosophy of Information and Computing**, ed. Luciano Floridi. Oxford: Blackwell, 2004, pp. 337-349.

"Learning to Communicate: The Emergence of Signaling in Spatialized Arrays of Neural Nets" (with Paul St. Denis and Trina Kokalis), **Adaptive Behavior** 10 (2003), 45-70.

"Philosophy for Computers: Some Explorations in Philosophical Modeling," in James H. Moor and Terrel Ward Bynum, eds., **Cyberphilosophy**, Blackwell 2002. Also appeared as below.

"Philosophy for Computers: Some Explorations in Computer Modeling," **Metaphilosophy** 33 (2002), 181-209. Special Issue CyberPhilosophy: The Intersection of Philosophy and Computing, ed. by James H. Moor and Terrel Ward Bynum.

"Evolution of Communication with a Spatialized Genetic Algorithm," (with Trina Kokalis, Ali Tafti, and Nicholas Kilb), **Evolution of Communication** 3 (2001), 105-134

"Evolution of Communication in Perfect and Imperfect Worlds" (with Trina Kokalis, Ali Tafti, and Nicholas Kilb), **World Futures: The Journal of General Evolution** 56 (2000), 179-197.

"Undecidability in the Spatialized Prisoner's Dilemma," **Theory and Decision** 42 (1997), 53-80.

"Spatialization and Greater Generosity in the Stochastic Prisoner's Dilemma," **BioSystems** 37 (1996), 3-17.

"The Greater Generosity of the Spatialized Prisoner's Dilemma," **Journal of Theoretical Biology** 173 (1995), 353-359.

Philosophical Logic

"Essential Vagueness: Two Models, One Simple Truth," forthcoming in **On the Sorites**, ed. Ali Abasenezhad and Otavio Beuno, Springer.

"Limitations and the World Beyond," with Nicholas Rescher. **Logos and Episteme** 8 (2017): 425-454.

"Plenum Theory" (with Nicholas Rescher), **Nous** 42 (2008), 422-459, reprinted in Nicholas Rescher, **Being and Value**, Ontos/Verlag 2008.

"The Buried Quantifier: An Account of Vagueness and the Sorites, " **Analysis** 65 (2005), 95-104.

"Self-Reference, Chaos, and Fuzzy Logic," in Zhong Li, Wolfgang A. Halang, and Guanrong Chen, **Integration of Fuzzy Logic and Chaos Theory**, Springer-Verlag 2005. An adaptation of "Self-Reference and Chaos in Fuzzy Logic," below.

"What is a Contradiction?" Graham Priest, JC Beall, and B. Armour-Garb, **The Law of Non-Contradiction: New Philosophical Essays**, Oxford Univ. Press. 2005, pp. 49-72.

"Worlds by Supervenience," **Analysis** 57 (1997), 146-151.

"Fractal Images of Formal Systems" (with Paul St. Denis), **Journal of Philosophical Logic** 26 (1997), 181-222. Reviewed in Ian Stewart, "Logic Quasi-Fractals: A Fractal Guide to Tic-Tac-Toe, " **Scientific American** 283 (2), August 2000.

"Self-Reference and Chaos in Fuzzy Logic," **IEEE Transactions on Fuzzy Systems** 1 (1993), 237-253.

"Self-Reference and Paradox in Two and Three Dimensions," (with Gary Mar, Matt Neiger, and Paul St. Denis), **Computers and Graphics** 17 (1993), 609-612.

"Operators in the Paradox of the Knower," **Synthese** 94 (1993), 409-428.

"Pattern and Chaos: New Images in the Semantics of Paradox," (with Gary Mar), **Noûs** 25 (1991), 659-694. Reviewed in Ian Stewart, "A Partially True Story," **Scientific American** 268 (2(, February 1993.

"On Situations and The World: A Problem for Barwise and Etchemendy," (with Gary Mar), **Analysis** 49 (1989), 143-148.

"Truth, Omniscience, and the Knower," **Philosophical Studies** 54 (1988), 9-41.

"Logic and Limits of Knowledge and Truth," **Noûs** 22 (1988), 341-367. Reprinted in Michael Martin and Rick Monnier, **The Impossibility of God**. Amherst, New York: Prometheus Books, 2003, 381-407.

"On Sets and Worlds: A Reply to Menzel," **Analysis** 46 (1986), 186-191.

"There Is No Set Of All Truths," **Analysis** 44 (1984), 206-208.

"Taking Sorites Arguments Seriously: Some Hidden Costs," **Philosophia** 14 (1984), 251-272.

"Is This a Swizzle Stick I See Before Me?," **Analysis** 43 (1983), 164-166.

"What Won't Escape Sorites Arguments," **Analysis** 42 (1982), 38-43. See also W.R. Abbott, "A Note on Grim's Sorites Argument," **Analysis**, 43 (1983), 161-164.

Philosophy of Religion

"Problems for Omniscience," in J. P. Moreland, Chad Meister & Khaldoun A. Sweis, eds., **Debating Christian Theism**. Oxford: Oxford Univ. Press, 2013, 169-180.

"Impossibility Arguments," in Michael Martin, ed., **The Cambridge Companion to Atheism**, Cambridge University Press 2007, 199-215.

"The Being That Knew Too Much," **International Journal for Philosophy of Religion** 47 (2000), 141-154. Reprinted in Michael Martin and Rick Monnier, **The Impossibility of God**. Amherst, New York: Prometheus Books, 2003, pp. 408-422.

"Truth, Omniscience, and Cantorian Arguments: an Exchange," (with Alvin Plantinga), **Philosophical Studies** 71 (1993), 267-306.

"On Omniscience and a 'Set of all Truths': A Reply to Bringsjord," **Analysis** 50 (1990), 271-276.

"Against Omniscience: The Case from Essential Indexicals," **Noûs** 19 (1985), 151-180. Reprinted in Michael Martin and Rick Monnier, **The Impossibility of God**. Amherst, New York: Prometheus Books, 2003, pp. 349-378.

"Gremlin's Revenge," **Philosophical Studies** (Eire), 30 (1984), 165-169.

"Reply to Brecher," **Philosophical Studies** (Eire), 30 (1984), 171-175.

"Some Neglected Problems of Omniscience," **American Philosophical Quarterly** 20 (1983), 265-276.

"Against a Deontic Argument for God's Existence," **Analysis** 42 (1982), 171-174.

"In Behalf of 'In Behalf of the Fool," **International Journal for Philosophy of Religion** 42 (1982), 33-42.

"Plantinga, Hartshorne, and the Ontological Argument," **Sophia** 20 (1981), 12-16.

"Plantinga's God and Other Monstrosities," **Religious Studies** 15 (1979), 91-97. Also appeared as "Plantinga's God," **Sophia**, 18 (1980), 35-41.

Ethics

"Free Will in Context," **Behavioral Science and the Law** 25 (2007), 183-201.

"Physician-Assisted Suicide: Sketching an Ethical Argument," **Contexts: A Forum for the Medical Humanities**, Institute for Medicine in Contemporary Society, SUNY at Stony Brook, vol. 4, no. 5 (1996), pp. 10-12 .

"Sex and Social Roles: How to Deal with the Data," reprinted in **Rethinking Masculinity**. Ed. Larry May. Lanham, Rowman, and Littlefield, 1992. Revised version in second edition, 1996.

"Meaning, Morality, and the Moral Sciences," **Philosophical Studies** (USA), 43 (1983), 397-408.

"Sex and Social Roles: How to Deal with the Data," in **'Masculinity,' 'Femininity,' and 'Androgyny': A Modern Philosophical Discussion**. Ed. Mary Vetterling-Braggin. Littlefield and Adams, 1982, pp. 128-147.

"Sports and Two Androgynisms," **Journal of the Philosophy of Sport** 8 (1981), 64-68.

"A Note on the Ethics of Theories of Truth," in **Sexist Language: A Modern Philosophical Approach**. Ed. Mary Vetterling-Braggin. Littlefield and Adams, 1981, pp. 290-298.

"Sexist Speech: Two Basic Questions," in **Sexist Language: A Modern Philosophical Approach**. Ed. Mary Vetterling-Braggin. Littlefield and Adams, 1981, pp. 34-51.

"The 'Right' to a Fair Trial," **Journal of Libertarian Studies** 2 (1978), 115-120.

"Sexism and Semantics," in **Feminism and Philosophy**. Ed. Frederick Elliston, Jane English, and Mary Vetterling-Braggin. Littlefield and Adams, 1977, pp. 109-116.

Philosophy of Science

see also Computational Modeling, above

"Paranormal Knowledge," in Jonathan Dancy and Ernest Sosa, eds., **A Companion to Epistemology**, Basil Blackwell, 1992.

"Scientific and Other Values," in **Philosophy of Science and the Occult**. Ed. Patrick Grim. SUNY Press. First edition 1982, second edition 1991.

"Technology and Arbitrary Decisions," **Public Affairs Quarterly** 1 (1987), 43-58.

"Psi and the Rosenthal Effect," reprinted in **Readings in the Philosophical Problems of Parapsychology**. Ed. Antony Flew. Prometheus Press, 1987. A revised version of "Psi Phenomena and the Rosenthal Effect," below.

"Psi Phenomena and the Rosenthal Effect," **New Ideas in Psychology** 2 (1984), 35-45.

"Reply to Rosenthal and Beloff," **New Ideas in Psychology** 2 (1984), 171-175.

"On the Separation of Church and Lab: Science, Values, and Religion," **National Forum** 64 (1983), 10-11, 20.

"Further Notes on Functions," **Analysis** 37 (1977), 169-176.

"Wright on Functions," **Analysis** 35 (1974), 62-64

Major Conferences

Program Co-Chair, Fathoming Consciousness: Meaning and Measures, Institute for Complex Adaptive Matter & Center for Study of Complex Systems, University of Michigan, February 2014.

Chair, Epistemology Think Tank #1, University of Pittsburgh, May 2012.

Program Co-Chair, Epistemology of Modeling & Simulation, University of Pittsburgh, April 2011. http://modelingepistemology.pitt.edu

Program Chair, National Computing and Philosophy conference, Rensselaer Polytechnic, 2006.

Program Chair, National Computing and Philosophy conference, Oregon State University, 2005.

Research Reports

"What You Believe Travels Differently: Network Homophily and the Contrast Between Information and Infection Dynamics" (with Christopher Reade, Daneil J. Singer, Steven Fisher, and Stephen Majewicz). Research Report #10-03, Group for Logic & Formal Semantics.

"How Simulations Fail" (with Robert Rosenberger, Brian Anderson, and Adam Rosenfeld), Research Report #10-02, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"The Science in Simulation: A Structural Analysis" (with Robert Rosenberger, Brian Anderson, Adam Rosenfeld, and Robb E. Eason). Resaerch Report #10-01, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"A Graphic Measure for Game-Theoretic Robustness" (with Randy Au, Nancy Louie, Robert Rosenberger, Will Braynen, Evan Selinger, and Robb E. Eason). Research Report #05-01, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"Modeling Prejudice Reduction: Spatialized Game Theory and the Contact Hypothesis" (with Evan Selinger, William Braynen, Robert Rosenberger, Randy Au, Nancy Louie, and John Connelly). Research Report #04-02, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"Boom and Bust: Environmental Variability and the Emergence of Communication" (with Trina Kokalis) Research Report #04-01, Group for Logic and Formal Semantics, SUNY at Stony Brook.

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"A Game-Theoretic Model for the Contact Hypothesis" (with Evan Selinger, William Braynen, Robert Rosenberger, Randy Au, Nancy Louie, and John Connelly). Research Report #03-03, Group for Logic and Formal Semantics, SUNY at Stony Brook

"Location, Location, Location: The Importance of Spatialization in Modeling Cooperation and Communication" (with Stephanie Wardach and Vincent Beltrani), Research Report #03-01, Group for Logic and Formal Semantics, SUNY at Stony Brook

"Making Meaning Happen" (with Trina Kokalis, Ali Alai-Tafti, Nicholas Kilb, and Paul St. Denis), Research Report #01-02, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"Learning to Communicate: The Emergence of Signaling in Spatialized Arrays of Neural Nets" (with Paul St. Denis and Trina Kokalis) Research Report #01-01, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"Evolution of Communication with a Spatialized Genetic Algorithm" (with Trina Kokalis, Ali Tafti, and Nicholas Kilb) Research Report #00-01, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"Evolution of Communication in Perfect and Imperfect Worlds" (with Trina Kokalis, Ali Tafti, and Nicholas Kilb) Research Report #99-01, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"Fractal Images of Formal Systems" (with Paul St. Denis) Research Report #95-01, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"Chaos, Fractals, and the Semantics of Paradox," (original text with with Gary Mar) Research Report #94-05i, an interactive form of Research Report #91-01, distributed in diskette form of a diskette with hypertext and activated .exe files, Group for Logic and Formal Semantics, SUNY Stony Brook.

"Undecidability in the Spatialized Prisoner's Dilemma: Some Philosophical Implications," Research Report #94-04i, distributed in the form of an interactive diskette with hypertext and activated .exe files, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"An NP-Complete Question Regarding the Spatialized Prisoner's Dilemma," Research Report #94-03, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"Computation and Undecidability in the Spatialized Prisoner's Dilemma," Research Report #94-02, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"The Undecidability of the Spatialized Prisoner's Dilemma," Research Report #94-01, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"The Evolution of (Greater) Generosity in the Spatialized Prisoner's Dilemma," Research Report #93-04, Group for Logic and Formal Semantics, SUNY at Stony Brook.

"Self-Reference and Chaos in Fuzzy Logic," Research Report #92-01, Group for Logic and Formal Semantics, SUNY Stony Brook.

"Chaos, Fractals, and the Semantics of Paradox," (with Gary Mar) Research Report #91-01, Group for Logic and Formal Semantics, SUNY Stony Brook.

Mixed Media

"Mind Body Philosophy | Can We Solve the Hard Problem of Consciousness?" Podcast interview on Demetri Kofinas, *Hidden Forces*, July 2018. www.hiddenforces.io/podcasts

Podcast interview, the *Torch Project*, July 5, 2017.

"Philosophical Robotics," DVD made for North American Computing and Philosophy conference, Oregon State University, August 2005.

"Robot Olympics Spring 2005 PHI 353. " Student-made DVD of robotics projects in PHI 353 Philosophy of Mind, May 2005.

Auxiliary software for "Robustness in a Model of Prejudice Reduction, " Santa Fe Institute working group on Social Dynamics. CDROM, April 2005

Auxiliary software for "Computational Imaging for Philosophical Research," Herbert A. Simon keynote address, North American Computing and Philosophy conference, Carnegie Mellon, August 2004.

"Smartbots and the Philosophy of Mind." Student-made DVD of robotics projects in PHI 353 Philosophy of Mind, May 2004.

"Prejudice Reduction in Artificial Societies: A Computational Model for the Contact Hypothesis." Operating programs on CD-Rom, December 2003.

"Philosophical Robots: Philosophy and Computers PHI 365." DVD of robotics projects in PHI 365 Philosophy and Computers, with introduction, December 2003.

"How to Tell Science from Pseudo-Science: The Falsifiability Criterion," audio and videotape of lecture for the Teaching Company, January 2004.

"The Emergence of Communication: Some Models for Meaning" (with Trina Kokalis, Ali Alai-Tafti, Nick Kilb, and Paul St. Denis), CD-ROM of paper presentation with illustrations and animations, produced in cooperation with the Center for Excellence in Teaching and Learning, SUNY at Stony Brook, 2001.

"Fractals, Chaos, and the Semantics of Paradox," (with Gary Mar), videotape presentation produced in cooperation with United Artists Cable at Brookhaven, June-September 1991.

CD-ROM of full text with color illustration and animations for **The Philosophical Computer: Exploratory Essays in Philosophical Computer Modeling**, distributed in a pre-publication version. Forms of chapters 1, 3, and 6 also developed and distributed as interactive diskettes. Introduction and chapter one developed in hypertext with JAVA applets for the web.

Reviews, Commentaries, and Abstracts

Extended abstract, "Germs, Genes, and Memes: Function and Fitness Dynamics on Information Networks" (with Daniel Singer, Christopher Reade, and Steven Fisher). **Artificial Life 13**, MIT Press, 2012.

Extended abstract, "The Role of Local and Global Perspectives in the Dynamics of Opinion Convergence and Polarization" (with Aaron Bramson, Daniel Singer, Steven Fisher, and Carissa Flocken). **Artificial Life 13**, MIT Press, 2012.

Abstract for "What Kind of Science is Simulation?, " with Robb Eason, Rob Rosenberger, Trina Kokalis,

and Evan Selinger. North American **Computing and Philosophy** conference, Rensselaer Polytechnic Institute, August 2006.

Abstract for "The Social Emergence of Communication in Spatialized Arrays of Neural Nets," written with Paul St. Denis and Trina Kokalis. **CogSci2003: 25th Annual Meeting of the Cognitive Science Society.**

Abstract for "Making Meaning Happen: Computational Models for Meaning as Use," written with Trina Kokalis, Ali Alai-Tafti, Nicholas Kilb, and Paul St. Denis. **Proceedings and Addresses of the American Philosophical Association** 76 (2003), 78-79.

"The Basic Questions: What is Reinforced? What is Selected?, " commentary on Howard Rachlin, "Altruism and Selfishness," **Behavioral and Brain Sciences** 25 (2002), 261.

Review of Mircea Reghis and Eugene Roventa, *Classical and Fuzzy Concepts in Mathematical Logic and Applications*, **Studia Logica** 68 (2001), 416-419**.**

Review of Jon Barwise and John Etchemendy, *Language, Proof, and Logic*, **Bulletin of Symbolic Logic** 7 (2001), 377-379.

Review of Hung T. Nguyen and Elbert A. Walker, *A First Course in Fuzzy Logic*, **Studia Logica** 63 (1999), 439-441.

Review of Graham Priest, *Beyond the Limits of Thought*, **Philosophy and Phenomenological Research**, 58 (1998), 719-723.

Review of Keith Simmons, *Universality and the Liar*, **Philosophical Review** 104 (1995), 467-469.

Critical Study of James E. Tomberlin, ed., *Philosophical Perspectives 5: Philosophy of Religion*, **Noûs** 28 (1994), 405-422.

Abstract for "Limitative Results in Formal Modeling and Their Philosophical Implications: The Example of Undecidability in the Spatialized Prisoner's Dilemma," **Proceedings of the IEEE International Conference on Neural Networks, IEEE World Congress on Computational Intelligence**, 1994, Vol. 4, 2174.

"Notes on Evidence and Externalism: A Response to Woodhouse," **New Ideas in Psychology**, 12 (1994), 23-26.

Co-editor and contributing author (with N. Martin and M. Bisticas-Cocoves), Philosophy section, **Barron's Student's Concise Encyclopedia**, Barron's Educational, 1993.

Abstract for "Paradox, Randomness, and Chaotic Dynamical Semantics," (with Gary Mar), **Journal of Symbolic Logic**, 57 (1992), 369.

Abstract for "Paradox and Chaotic Dynamical Semantics," (with Gary Mar), **Journal of Symbolic Logic**, 57 (1992), 358.

Review of Stephen Braude, *The Limits of Influence*, **Noûs**, 23 (1989), 126-136.

Review of E.J. Echeverria, *Criticism and Commitment: Major Themes in Contemporary 'Post Critical' Philosophy*, **Review of Metaphysics**.

"Theories and Magicians," a review of Daniel Lawrence O'Keefe, *Stolen Lightning: The Social Theory of Magic*, **Crosscurrents**, 26 (1983), 93-95.

Review of Eliseo Vivas, *Two Roads to Ignorance***, Review of Metaphysics**, 34 (1983), 953-954.

Commentary on Ron Westrum, "Crypto-Science and Social Intelligence About Anomalies," **Zetetic Scholar**, 10 (1982), 107-108.

"Science Under Siege," a review of Philip Slater, *The Wayward Gate*, **Crosscurrents**, 27 (1978), 485-7.

"Matters of Life and Death," reviews of Peter Steinfels and Robert M. Veatch, eds., *Death Inside and Out: The Hastings Center Report*, and Robert M. Veatch, *Death, Dying, and the Biological Revolution*, **Crosscurrents**, 26 (1977), 458-502.

Abstract of "Human Differences: How to Deal with the Data," in **Human Rights: Abstracts of Papers from the Tenth Interamerican Congress of Philosophy**.

Abstracts for refereed articles above appear in **The Philosopher's Index** and some in **Mathematical Abstracts**. Abstracts of published books appear in **The Monist** and **The Philosopher's Index**.

Presentations

"Modeling Epistemology: Examples and Analysis in Computational Philosophy of Science," 2019 Spring Simulation Conference, SpringSim 2019, Tucson Arizona April 2019.

"Paradigm Shfts as Cascades on Conceptual Networks" (research with Joshua Kavner, Lloyd Shatkin, Manjari Trivedi & Tianji Cong), 7th CSLI Workshop on Logic, Rationality, and Intelligent Interaction, Stanford, June 2018.

"Paradigm Shifts as Information Cascades on Conceptual Networks" (research with Joshua Kavner, Lloyd Shatkin, Manjarin Trivedi & Tianji Cong) Keynote Address, North East Regional Conference on Complex Systems, Binghamton, NY, April 2018. Available online at https://vimeo.com/264870888

"How Rankings Go Wrong; Structural Bias in Common Ranking Systems Viewed as Complex Systems" (with Jared Stolove, Natalia Jenuwine, Adrian Apaza, Hanna vanWingen, Jaikishan Prasad, Paulina Knoblock, Callum Hutchinson, Chenxi Li, Kyle Fitpatrick Chang Xu & Catherine Ming) Ninth International Conference on Complex Systems, Boston MA, July 2018. Presented by Natalia Jenuwine.

"How Rankings Go Wrong; Structural Bias in Common Ranking Systems Viewed as Complex Systems" (with Jared Stolove, Natalia Jenuwine, Adrian Apaza, Hanna vanWingen, Jaikishan Prasad, Paulina Knoblock, Callum Hutchinson, Chenxi Li, Kyle Fitpatrick Chang Xu & Catherine Ming) poster presentation, North East Regional Conference on Complex Systems, Binghamton, NY, April 2018.

"Wisdom of Crowds, Wisdom of the Few: Expertise and Diversity across Epistemic Landscapes" (research with Daniel J. Singer, Aaron Bramson, Bennett Holman, & William J. Berger) Conference on Scientific Philosophy, Irvine, February 2018.

"Diversity and Expertise in Epistemic Communities: What we Learn from Simulations" (presented by Bennett Holman). Formal Epistemology Workshop, University of Washington, Seattle, May 2017
Invited, Munich Center for Mathematical Philosophy, LMU, Munich, January 2017.

"Group Polarization as a Limitedly Rational Response to Evidence," Agent Based Modeling Across Social Science, Economics and Philosophy, Bamberg October 2016 (presented by Bennett Holman). Decisions, Games and Logic, Ann Arbor, July 2016 (presented by Daniel J. Singer)

"A Starter Set of Philosophical Models: Semantics, Pragmatics, Epistemology" Complex Systems Advanced Academic Workshop, University of Michigan, September 2014.

"Neural Networks, Political Contexts: A Hopfield Model of Opinion Polarization" (with Graham Sack, Carissa Flocken, William Berger, Aaron Bramson, and Daniel J. Singer). International Political Science Association World Congress. Panel on "Trust and Participation" in Comparative Politics and Institutions. Palais de Congress, Montreal, July 2014; poster presentation, American Political Science Association National meeting, Washington DC, August 2014.

"Opinion Instability in Democratic and Anti-Democratic Networks: Suggestions from an Agent-Based Model" (with Krishna Bathina, Zhen Meng Liu, Naijia Liu & Jake Gordon), 2014 Political Networks Conference, McGill University, May 2014; 3rd annual preconference on *Dynamical Systems and Computational Modeling in Social Psychology*, Society for Personality and Social Psychology, Austin, February 2014; 7th Annual Political Networks Conference, McGill Universtiy, May 2014; American Political Science Association, Washington DC, August 2014.

"Neural Networks, Social Contexts: A Hopfield Model of Opinion Polarization" (with Graham Sack, Carissa Flocken, Aaron Bramson, Daniel Singer, William Berger, and Steven Fisher). 7th Annual Political Networks Conference, McGill University, May 2014.

"Polarization: Media and Town Meetings in a Variation of the Axelrod model" (with Erick Pulick, Patrick Korth and Jiin Jung), poster presentation, 2014 Political Networks Conference, McGill University, May 2014; American Political Science Association, Washington DC, August 2014.

"Opinion Dynamics on Networks: Current Research," Modeling Infectious Disease Agent Study Research Meeting, University of Pittsburgh Graduate School of Public Health, May 2014.

"Measures of Polarization and Diversity" (with Aaron Bramson, Daniel J. Singer, Steven Fisher, Graham Sack, William Berger, and Carissa Flocken), Computational Social Science Society of the Americas, Santa Fe, August 2013. Presented by Aaron Bramson, awarded participants' best presentation.

"Hopfield and Hebbian Models of Belief Polarization: Neural Networks, Social Contexts" (with Graham Sack, Carissa Flocken, Aaron Bramson, William Berger, Daniel J. Singer, and Steven Fisher, Computational Social Science Society of the Americas, Santa Fe, August 2013. Presentation by Graham Sack and Aaron Bramson.

"Scientific Networks on Data Landscapes: Question Difficulty, Epistemic Success and Convergence" (with Daniel J. Singer, Steven Fisher, Aaron Bramson, William Berger, Christopher Reade, Carissa Flocken, & Adam Sales), Choosing the Future of Science: The Structure of Scientific Inquiry, Center for Philosophy of Science, University of Pittsburgh, April 2013.

"Dynamic Visual Intelligence and the Art of Animation," Stony Brook, April 2013

"Animation and Dynamic Visual Intelligence," Columbia Society of Fellows in the Humanities, March 2013.

"Polarization and Belief Dynamics in the Black and White Communities: An Agent-Based Network Model from the Data" (with Stephen B. Thomas, Steven Fisher, Christopher Reade, Daniel Singer, Mary A. Garza, Craig S. Fryer, and Jamie Chatman). ALife 13, Lansing, Michigan, July 2012.

"Germs, Genes, and Memes: Function and Fitness Dynamics on Information Networks" (with Daniel Singer, Christopher Reade, and Steven Fisher). ALife 13 poster presentation. Lansing, Michigan, July 2012.

"The Role of Local and Global Perspectives in the Dynamics of Opinion Convergence and Polarization" (with Aaron Bramson, Daniel Singer, Steven Fisher, and Carissa Flocken). Scheduled for ALife 13 poster presentation. Lansing, Michigan, July 2012.

"The Role of Local and Global Perspectives in the Dynamics of Opinion Convergence and Polarization" (written with Aaron Bramson, Daniel Singer, Steven Fisher, Carissa Flocken, and William Berger). Human Complexity 2012, University of North Carolina, Charlotte, June 2012.

"Information Dynamics Across Sub-Networks: Germs, Genes, and Memes" (written with Daniel Singer, Christopher Reade, and Steven Fisher). Human Complexity 2012, University of North Carolina, Charlotte, June 2012

"Belief Polarization within the Black and White Communities: Information Dynamics in Data-based Networks (with Stephen B. Thomas, Steven Fisher, Christopher Reade, Daniel J. Singer, Mary A. Garza, Craig S. Fryer, and Jamie E. Chatman). MIDAS scientific presentations, MIDAS Network meeting, Boston, February 2012.

"Information Dynamics across Linked Sub-Networks: Germs, Genes, and Memes" (with Daniel J. Singer, Christopher Reade, and Steven Fisher), AAAI Fall Symposium on Complex Adaptive Systems: Energy, Information and Intelligence, Arlington, VA, November 2011.

"Report on the Epistemology of Modeling and Simulation Conference," Modeling of Infectious Disease Agent Study meeting, Atlanta GA, June 2011.

"Essentials of Agent-Based Modeling," NEH Institute for Advanced Topics in the Digital Humanities: Computational Simulation in the Humanities, University of North Carolina, Charlotte, June 2011.

"From Game Theory to Studies in Cooperation and Language," NEH Institute for Advanced Topics in the Digital Humanities: Computational Simulation in the Humanities, University of North Carolina, Charlotte, June 2011.

"Networks," NEH Institute for Advanced Topic in the Digital Humanities: Computational Simulation in the Humanities, University of North Carolina, Charlotte, June 2011.

"Robustness, Reality, and the Future of Complex Systems Modeling," Keynote Address, Association for Advancement of Artificial Intelligence Fall Symposium on Complex Adaptive Systems, Arlington, VA, November 2010.

"Reflections in Epistemetrics," Scientific Achievement: Progress and Problems, Center for Philosophy of Science, University of Pittsburgh, September 2010.

"Modeling the Dynamics of Belief Networks: Epistemology, Epidemiology, and Scientific Optimization," Special Invited Speaker on Computer Simulations, North American Computing and Philosophy conference, Carnegie Mellon, July 2010.

"Collaborative Research in Philosophical Computer Modeling," North American Computing and Philosophy conference, Carnegie Mellon, July 2010.

"Developing an Agent-Based Model to Assess Racial Differences in Medical Discrimination, Social Support, and Trust" (with Stephen B. Thomas), Wrap-Up for 2009-2010 Computational Modeling Pilot Grants, University of Pittsburgh Graduate School of Public Health, March 2010.

"Threshold Phenomena in Epistemic Networks," AAAI Fall Symposium on Complex Adaptive Systems and

the Threshold Effect: Views from the Natural and Social Sciences," Arlington VA, November 2009.

"Philosophical Implications of Network Structure: Cooperation, Communication, and Epistemology," Michigan State University, November 2009.

"Semantic Content and Pragmatic Convention: Emergence Through Individual Advantage in Spatialized Environments," IEEE Symposium on Artifical Life, IEEE Symposium Series on Computational Intelligence, Nashville, March 2009

"Philosophical Implications of Interaction and Information Networks," Evolution, Game Theory & the Social Contract Conference, Beckman Center for the National Academies, University of California, Irvine, March 2009

"The Tree of Life and the Wheel of Becoming," a discussion with Darren Aranafsky, Rubin Museum of Himalayan Art, New York, March 2009

"Network Simulations and Their Philosophical Implications: Models for Semantics, Pragmatics, and Epistemology," Models and Simulations 3, Charlottesville Virginia, March 2009.

"Lessons from Networks: Cooperation, Communication, and Epistemology," Formal Methods in Philosophy Workshop, University of Pennsylvania, May 2008.

"A Handful of Paradoxes," Undergraduate Philosophy Club, Stony Brook, April 2008

"Philosophical Implications of Networks: Cooperation, Communication, and Epistemology," Stony Brook Philosophy Colloquium, March 2008

"Notes on Ethical Relativism," Fox School, Westchester County, February 2008

"The Emergence of Gricean Constraints: Lessons from Simulation, " invited lecture scheduled for Games and Decisions in Pragmatics III, the Center for General Linguistics, Berlin, November 2007.

"Simulating Prejudice Reduction: the Robustness of a Simple Model, " Graduate School of Public Health, University of Pittsburgh, November 2007.

"Network Structure in Cooperation, Communication, and Epistemology, " Center for Philosophy of Science, University of Pittsburgh, September 2007.

"Tangled Webs: Network Structure in Cooperation, Communication, and Epistemology, " Invited Graduate Student Recruitment talk, Department of History and Philosophy of Science, University of California at Irvine, April 2007.

"Simulating Grice: Maximization in Communication Networks," Symposium in Game Theory and Pragmatics, Central APA, Chicago, April 2007.

"Tangled Webs: Network Structure in Cooperation, Communication, and Epistemology," The Weinberg Lecture, University of Michigan, December 2006.

Program Director, North American Computing and Philosophy conference, Rensselaer Polytechnic Institute, August 2006.

"What Kind of Science is Simulation? " with Robb Eason, Rob Rosenberger, Trina Kokalis, and Evan Selinger. North American Computing and Philosophy conference, Rensselaer Polytechnic Institute, August 2006.

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"Game-Theoretic Robustness in Cooperation and prejudice Reduction: A Graphic Measure, " with Randy Au, Nancy Louie, Robert Rosenberger, William Braynen, Evan Selinger, and Robb E. Eason. Poster presentation, ALife X, Bloomington, Indiana, June 2006.

"The Roots of Meaning, " School of Computer Science, University of St. Andrews, March 2006.

"The Authority of Experts, the Efficiency of Markets, the Wisdom of Crowds, " Technoscience Seminar, Stony Brook, February 2006

"The Roots of Meaning: Emergence of Signaling by Imitation, with Localized Genetic Algorithms, and in Arrays of Neural Nets, " Center for Study of Complex Systems, University of Michigan, November 2005.

Program director, North American Computing and Philosophy conference, University of Oregon, August 2005.

"Lego Mindstorms as a Teaching Tool." with John Sullins and Selmer Bringsjord. North American Computing and Philosophy conference, University of Oregon, August 2005.

Research for "A Computer-Instantiated Model of Social Psychological Research in Prejudice Reduction," presented by Robert Rosenberger, North American Computing and Philosophy conference, University of Oregon, August 2005. Research with Evan Selinger, Robert Rosenberger, William Braynen, Randy Au, Nancy Louie, Harry Groover, Shawn Smith, and John Connolly.

"Robustness in a Model of Prejudice Reduction, " Santa Fe Institute working group on Social Dynamics, April 2005

"Computational Imaging for Philosophical Research, " Herbert A. Simon Keynote Address, Computing and Philosophy Conference, Carnegie Mellon University, August 2004.

"Reducing Prejudice: A Spatialized Game-Theoretic Model for the Contact Hypothesis, " written with Evan Selinger, Robert Rosenberger, William Braynen, Randy Au, Nancy Louie, and John Connolly, ALIFE9, Boston, September 2004.

"Boom and Bust: Environmental Variability Favors the Emergence of Communication, " with Trina Kokalis. Poster presentation, ALIFE9, Boston, September 2004.

"Smartbots, " a presentation of robots used in PHI 365 Philosophy of Computers and PHI 353 Philosophy of Mind, with Stuart Fishkin. Conference on Instructional Technologies, Stony Brook, May 2004.

"Concrete Images for Abstract Concepts: A Philosophical View," for Rethinking Theories and Practices of Imaging: Technology, Representation, and the Disciplines, Rochester Institute of Technology, April 2004.

"Philosophical Modeling and Robotics: Examples and Reflections," special session arranged and chaired for the APA Committee on Philosophy and Computers, American Philosophical Association, Eastern Division, Washington D. C., December 2003.

"Prejudice Reduction in Artificial Societies: A Computational Model for the Contact Hypothesis," Society for Machines and Mentality, American Philosophical Association, Eastern Division, December 2003. Written with Evan Selinger, Robert Rosenberger, Will Braynen, Randy Au, Nancy Louie, and John Connolly.

"The Origins of Meaning: Hints from Large Arrays of Neural Nets," Society for Machines and Mentality, American Philosophical Association, Eastern Division, December 2003. Written with Paul St.

Denis and Trina Kokalis.

"Knowledge, Omniscience, and Essential Indexicals: Some Further Thoughts," Disproof Atheism Society, Boston University, July 2003.

"The Social Emergence of Communication in Spatialized Arrays of Neural Nets," CogSci2003, 25th Annual Meeting of the Cognitive Science Society, Boston, July 2003. Written with Paul St. Denis and Trina Kokalis.

"Meaning as Use: Emergence of Communication in Arrays of Imitators and Neural Nets," 1st International Computing and Philosophy Conference, University of Glasgow, Scotland, March 2003. Written with Trina Kokalis, Ali Alai-Tafti, Nick Kilb, and Paul St. Denis.

"Making Meaning Happen: Computational Models for Meaning as Use," American Philosophical Association, April 2003. Written with Trina Kokalis, Ali Alai-Tafti, Nicholas Kilb and Paul St. Denis.

"Meaning as Use: Computational Models for the Social Emergence of Communication," Frontiers of Cognitive Science Series, Rensselaer Polytechnic Institute, February 2003. Written with Trina Kokalis, Ali Alai-Tafti, Nick Kilb, and Paul St. Denis.

"Meaning as Use: Computational Models for the Social Emergence of Communication," William Patterson University, Philosophy Colloquium, April 2002. Written with Trina Kokalis, Ali Alai-Tafti, Nick Kilb, and Paul St. Denis.

"The Emergence of Communication: Some Models for Meaning," 16th Annual Computing and Philosophy Conference, Carnegie Mellon, August 2001. With Trina Kokalis, Nicholas Kilb, Ali Alai-Tafti, and Paul St. Denis.

"Chaos in the Human Realm," Symposium on Chaos Theory, APA Eastern Division meetings, December 2000.

"The Philosophical Computer," APA Special Session on Computer Modeling of Reason and Emotion, Washington D.C., December 1998.

"A Fairly Happy Fuzzy Face," the Vagueness Group, CUNY Graduate Center, May 1997.

"Unprepared Thoughts on Ethical Theory," Stony Brook Faculty Colloquium, February 1996.

"Explorations in Philosophical Computation: Some Examples" (with Gary Mar), CUNY Graduate Center Philosophy Colloquium, November 1995.

"The Past and Future History of Philosophy,@ Commencement Address, Dept. of Philosophy, May 1995.

"Limitative Results in Formal Modeling and Their Philosophical Implications: The Example of Undecidability in the Spatialized Prisoner's Dilemma," IEEE World Congress on Computational Intelligence, Orlando, June 1994.

"Fractals, Chaos, and Paradox," (with Gary Mar), Stony Brook Philosophy Colloquium, April, 1991.

"Paradox, Randomness, and Chaotic Dynamical Semantics," (with Gary Mar), Association for Symbolic Logic meetings, San Francisco, Calif., March 1991.

"Paradox and Chaotic Dynamical Semantics," (with Gary Mar), Association for Symbolic Logic meetings, Carnegie-Melon Univ., February, 1991.

"Chaos and Fractals in the Semantics of Paradox," (with Gary Mar), NYU Philosophy Colloquium, December, 1990.

"The Chaotic Liar: New Images in the Semantics of Paradox," (with Gary Mar), SUNY Stony Brook Non-linear Dynamics Group, November 1990.

"The Chaotic Liar: an Introduction to Dynamical Semantics" (with Gary Mar), City University of NewYork Graduate Center, Seminar in Applications of Logic, November 1990.

Reply to Keith Simmons, "On An Argument Against Omniscience," American Philosophical Association, New Orleans, April 1989.

"Propositional Quantification in the Incomplete Universe," City University of New York Graduate Center, Philosophy Colloquium, November, 1989.

"There Is No Set Of All Truths," Stony Brook Philosophy Colloquium, December 1985.

"A Handful of Paradoxes," Stony Brook Philosophy Department, November 1985.

"Psi and the Rosenthal Effect," American Philosophical Association, Eastern Division, Society for the Philosophical Study of the Paranormal, 1982.

"On the Separation of Church and Lab," State University of New York at Plattsburgh, 1982.

"Against Omniscience: The Case from Essential Indexicals," North Carolina State University at Raleigh, 1982.

"Human Differences: How to Deal with the Data," Tenth Interamerican Congress of Philosophy, on Human Rights, 1981.

"Some Notes on Paradoxes," Lehigh University, 1981.

"Our Methods in Their Madness," Long Island Philosophical Association, 1980

"In Behalf of 'In Behalf of the Fool'," Wheaton College Philosophy Conference on the work of Alvin Plantinga, 1980. Replied to in Clement Dore, "On the Foolishness of the Fool: a Reply to Professor Grim."

"In Defense of Theoretical Ethics," Long Island Philosophical Society, 1980.

"An Argument Against an Argument Against the Right to be Killed," Washington University, 1977.

"Getting Around the 'Is/Ought Gap'," Rochester Institute of Technology, 1977.

"Ethics and Therapy," Long Island Philosophical Society, 1976.

"Breaking the Silence: On New Views of Sex and Death," SUNY Stony Brook, 1976.

"The Facts About Value Judgments," presented at Dickinson College, Stockton State College, and St. Cloud University, 1976.

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Graduate and Undergraduate Teaching

Symbolic Logic, Advanced Symbolic Logic, Logical and Critical Reasoning
Computation and Consciousness, Philosophy and Computers, Philosophy of Mind
Philosophy of Law
Philosophy of Science, Philosophy of the Social Sciences
Theoretical Ethics, Ethical Inquiry, Moral Reasoning, Biomedical Ethics
Agent-based Modeling, Social Dynamics, Introduction to Complex Systems

Curriculum and Program Development

Agent-based Modeling course, University of Michigan, 2015-
Group for Logic & Formal Semantics, 1991-
Expansion of Group for Logic & Formal Semantics research groups, grads and undergrads, University of Michigan & Stony Brook, 1994-
Group for Logic & Formal Semantics, research reports series, 1991-
Director, Logic Lab, Stony Brook
Introduction of MindStorms robotics into Philosophy and Computers, Philosophy of Mind, 2003
Undergraduate Research Tracks in Philosophy, instituted 1996, Stony Brook
Undergraduate Research Track in Philosophical Logic, director, 1996-1999
Graduate Research Initiative grant, for development of the Logic Lab, 1994
Undergraduate Director, repeatedly
Faculty rotation through 100-level courses, developed as Undergraduate Director, 1991

Professional Organizations and Service

Program Co-Chair, Fathoming Consciousness: Meaning and Measures, Institute for Complex Adaptive Matter & Center for Study of Complex Systems, University of Michigan, February 2014.
Chair, Epistemology Think Tank #1, University of Pittsburgh, May 2012.
Program Chair, Epistemology of Modeling and Simulation National Conference, co-sponsored by the Graduate School for Public Health and the Center for Philosophy of Science, University of Pittsburgh, April 1-3, 2011.
Organizer and Principal, NEH Institute for Advanced Topics in the Digital Humanities: Computer Simulation in the Humanities, University of North Carolina, Charlotte, June 2011
Steering Committee, International Association for Computers and Philosophy
Program Director, North American Computing and Philosophy conference, University of Oregon, August 2005
Program Director, North American Computing and Philosophy conference, Rensselaer Polytechnic Institute, August 2006
Program Committee, North East Regional Conference on Complex Systems, 2019, 2020
Program Committee, Spring Simulation conference, 2019, 2020
Program Committee, AAAI Fall Symposia in Complex Systems, 2009, 2010, 2011.
Associate, Behavioral and Brain Sciences
APA Committee on Philosophy and Computers
Cognitive Science Society
Artificial Life Society
Society for Mentality and Machines
International Association for Philosophy of Law

Reviewer for: NSF
Social Sciences and Research Council of Canada
Oxford University Press
MIT Press
Temple University Press
Macmillan Publishing Company
State University of New York Press

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Barron's Educational Series
Garland Publishing
Noûs
Synthese
Philosophical Studies
Journal of Philosophical Logic
Notre Dame Journal of Formal Logic
Australasian Journal of Philosophy
American Philosophical Quarterly
American Journal of Public Health
New Ideas in Psychology
Mind & Matter
Philosophia
Dialogue
Idealistic Studies
BioSystems
Speculations in Science and Technology
Journal of Approximate Reasoning
IEEE Transactions on Fuzzy Systems
IEEE Transactions on Neural Networks
Fuzzy Sets and Systems
Theory and Decision
Games
International Journal of General Systems
Foundations of the Formal Sciences
Journal of Theoretical Biology
Complexity
Complexity International
Australasian Journal of Philosophy
Philosophy and Phenomenological Research
Sophia
Discourse Processes
Studia Logica
Metaphilosophy
Faith and Philosophy
The Monist
Economics and Philosophy
Behavioral and Brain Sciences
Artificial Life
ALIFE conferences
SpringSim 2019, 2020
Northeast Journal of Complex Systems
Northeast Regional Comference on Complex Systems
Ergo
Journal of Business Economics
Philosophy of Science
Journal of Philosophical Research
British Journal for the Philosophy of Science
Philosophy of Science Association
Journal of Applied Logic
Mind
Physica A
Journal of Experimental and Theoretical Artificial Intelligence

Erkenntnis
IEEE Transactions on Computational Social Systems
Netherlands Organisation for Scientific Research

Major Grants

Subaward for Behavioral Modeling within MIDAS "Computational Models of Infectious Disease Threats," Don Burke, P.I., NIH 1U54GM088491-01, University of Pittsburgh Graduate School of Public Health, 2010-2015.

Project Director (with Anthony Beavers, Marvin Croy, and Mirsad Hadzikadik), NEH Institute for Advanced Topics in the Digital Humanities: Computer Simulations in the Humanities, University of North Carolina, Charlotte, Summer 2011.

Consulting

LSAT, analytic section, question writing through LOGICAT
Applied Biomathematics Inc.
A Social Network Model Keyed to Research on Healthy Eating, Christopher Keane P.I., Computational Modeling Pilot Grant, University of Pittsburgh Graduate School of Public Health, 2008-2009
Developing an Agent-Based Model to Assess Racial Differences in Medical Discrimination, Social Support, and Trust, Stephen B. Thomas, P.I., Computational Modeling Pilot Grant, University of Pittsburgh Graduate School of Public Health, 2009-2010.

The Philosopher's Annual

Bibliographical details:

The Philosopher's Annual, Volume I. Co-edited with David L. Boyer and John T. Sanders. Basil Blackwell and Rowman and Littlefield, 1979.

The Philosopher's Annual, Volume II. Co-edited with David L. Boyer and John T. Sanders. Basil Blackwell and Rowman and Littlefield, 1980.

The Philosopher's Annual, Volume III. Co-edited with David L. Boyer and John T. Sanders. Ridgeview Press, 1981

The Philosopher's Annual, Volume IV. Co-edited with David L. Boyer and John T. Sanders. Ridgeview Press, 1982.

The Philosopher's Annual, Volume V. Co-edited with David L. Boyer and John T. Sanders. Ridgeview Press, 1984.

The Philosopher's Annual, Volume VI. Co-edited with Patricia Athay and Christopher J. Martin. Ridgeview Press, 1985.

The Philosopher's Annual, Volume VII. Co-edited with Christopher J. Martin and Michael A. Simon. Ridgeview Press, 1986.

The Philosopher's Annual, Volume VII. Co-edited with Patricia Athay and Christopher J. Martin. Ridgeview Press, 1987.

The Philosopher's Annual, Volume IX. Co-edited with Patricia Athay and Michael A. Simon. Ridgeview Press, 1988.

The Philosopher's Annual, Volume X. Co-edited with Gary Mar and Michael A. Simon. Ridgeview

Press, 1989.

The Philosopher's Annual, Volume XI. Co-edited with Gary Mar and Peter Williams. Ridgeview Press, 1990.

The Philosopher's Annual, Volume XII. Co-edited with Gary Mar and Peter Williams. Ridgeview Press, 1991.

The Philosopher's Annual, Volume XIII. Co-edited with Gary Mar and Peter Williams. Ridgeview Press, 1992.

The Philosopher's Annual, Volume XIV. Co-edited with Peter Ludlow and Gary Mar. Ridgeview Press, 1993.

The Philosopher's Annual, Volume XV. Co-edited with Gary Mar and Peter Williams. Ridgeview Press, 1994.

The Philosopher's Annual, Volume XVI. Co-edited with Gary Mar and Peter Williams. Ridgeview Press, 1995.

The Philosopher's Annual, Volume XVII. Co-edited with Gary Mar and Peter Williams. Ridgeview Press, 1996.

The Philosopher's Annual, Volume XVIII. Co-edited with Gary Mar, Peter Ludlow, and Peter Williams.

Ridgeview Press, 1997.

The Philosopher's Annual, Volume XIX. Co-edited with Gary Mar and Ken Baynes. Ridgeview Press, 1998.

The Philosopher's Annual, Volume XX. Co-edited with Gary Mar and Ken Baynes. Ridgeview Press, 1999.

The Philosopher's Annual, Volume XXI. Co-edited with Ken Baynes, Peter Ludlow, and Gary Mar. Ridgeview Press, 2000.

The Philosopher's Annual, Volume XXII. Co-edited with Ken Baynes and Gary Mar. CSLI/Univ. of Chicago Press, 2001.

The Philosopher's Annual, Volume XXIII. Co-edited with Peter Ludlow, Ken Baynes and Gary Mar. CSLI/Univ. of Chicago Press, 2002.

The Philosopher's Annual, Volume XXIV. Co-edited with Peter Ludlow and Gary Mar. CSLI/Univ. of Chicago Press, 2003.

The Philosopher's Annual, Volume XXV. Co-edited with Peter Ludlow, Ken Baynes and Gary Mar. Online.

The Philosopher's Annual, Volume XXVI. Co-edited with Ken Baynes and Gary Mar. Online.

The Philosopher's Annual, Volume XXVII. Co-edited with Ian C. Flora and Alex Plakias. Online

The Philosopher's Annual, Volume XXVIII. Co-edited with Nate Charlow, Ian C. Flora and Lina

Jansson. Online

The Philosopher's Annual, Volume XXIX. Co-edited with Nate Charlow, Dmitri Gallow, and Warren Herald. Online

The Philosopher's Annual, Volume XXX. Co-edited with Dmitri Gallow, Billy Dunaway, and Alex Silk. Online

The Philosopher's Annual, Volume XXXI. Co-edited with Chloe Armstrong, Billy Dunaway, and Robin Zheng. Online

The Philosopher's Annual, Volume XXXII. Co-edited with Chloe Armstrong, Nils-Hennes Stear, and Patrick Shirreff. Online

The Philosopher's Annual, Volume XXXIII. Co-edited with Paul Boswell, Daniel Drucker & Sydney Keough. Online

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