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EMPLOYMENT

The University of South Florida, Associate Professor, Dept. of Philosophy, 2006-present.

The University of South Florida, Assistant Professor, Dept. of Philosophy, 2001-2006.

EDUCATION

Indiana University, Ph.D., History and Philosophy of Science, December 1999.

Dissertation: *Simulation and the Philosophy of Science: Computationally Intensive Studies of Complex Physical Systems*. Michael Friedman (chair).

University of Chicago, B.A., History, Philosophy and Social Studies of Science, June 1989.

AREAS OF INTEREST

Areas of Specialization

Philosophy of Science; Philosophy of Physics.

Areas of Competence

Logic; Philosophy of Mind; History of 20th Century Analytic Philosophy.

AWARDS AND FELLOWSHIPS

Fellow, Institute of Advanced Study, University of Durham, 2008 (spring).

Fellow, Center for Interdisciplinary Studies (ZiF), University of Bielefeld, 2006-2007.

Postdoctoral Fellow, Program in History and Philosophy of Science, Northwestern University, 1999-2001.

Philosophy of Science Association Award for outstanding *Philosophy of Science* article published by a recent Ph.D, 2004.

Norwood Russell Hanson Distinguished Graduate Student Award, Department of History and Philosophy of Science, Indiana University Bloomington, 1998.

PUBLICATIONS**BOOKS**

Science in the Age of Computer Simulation. Under Contract, University of Chicago Press, expected publication 2009.

ARTICLES IN PEER REVIEWED JOURNALS

“Laws, Chances, and Statistical mechanics” *Studies in History and Philosophy of Modern Physics*, forthcoming.

“A Tale of Two Methods” *Synthese*, forthcoming.

“Handshaking your way to the top: Inconsistency and falsification in intertheoretic reduction.” *Philosophy of Science*, 73: 582-594, December 2006.

“Models of Success vs. the Success of the Models: Reliability without truth.” *Synthese*, 152: 1-19, September 2006.

“Laws and Statistical Mechanics.” *Philosophy of Science*, 71: 707-718, December 2004.

“Can Conditionalizing on the “Past Hypothesis” Militate Against the Reversibility Objections?” *Philosophy of Science*, 71: 489-504, October 2004.

[2004 award for outstanding *Philosophy of Science* article by a recent Ph.D.]

“Quantum Life: Interaction, Entanglement, and Separation.” With A. Fine, *Journal of Philosophy*, C: 80-97, February 2003.

“Simulated Experiments: Methodology for a Virtual World.” *Philosophy of Science*, 70: 105-125, January 2003.

“Simulations, Models, and Theories: Complex Physical Systems and their Representations.” *Philosophy of Science*, 68: S442-S454, September 2001.

“Sanctioning Models: The Epistemology of Simulation.” *Science in Context*, 12: 275-92, Summer 1999.

BOOK CHAPTERS

“A Function for Fictions: expanding the scope of science.” *Fictions in Science: Philosophical Essays on Modeling and Idealization*, Suarez, M. and Fine, A., eds., expected 2009, Routledge.

“Value Judgments and the Estimation of Uncertainty in Climate Modeling”, with Justin Biddle, *New Waves in the Philosophy of Science*, Magnus, P.D., and Busch, J., eds., expected 2009, Palgrave MacMillan.

“Handshaking your way to the top: Inconsistency and falsification in intertheoretic reduction,” *Simulation: Pragmatic Constructions of Reality*, Shinn, T., Lenhard J., and Küppers, G., eds., 2006, Springer. (Reprinted from *Philosophy of Science*, see above.)

“The Hierarchy of Models in Simulation.” *Proceedings of the 1998 Congress on Model-Based Reasoning in Scientific Discovery*, Magnani, L., Nersessian, N., and Thagard, P., eds., 1999, Springer.

ONLINE JOURNALS

“Models and Theories at the Nanoscale” *Spontaneous Generations: A Journal for the History and Philosophy of Science*, forthcoming.

BOOK REVIEWS (all commissioned)

Lorenzo Magnani and Nancy J. Nersessian, *Model-Based Reasoning Technology, Science, Values*. In *Philosophy of Science*, April 2003.

Nancy Cartwright, *The Dappled World: Essays on the Boundaries of Science*. In the *Journal of Philosophy*, with Frisch, M., Darling, K.M., and Fine, A..

Mathieu Marian, *Wittgenstein, Finitism, and the Foundations of Mathematics*. In *Philosophy of Science*, September 2000.

REFERENCE ENTRIES

“Simulation.” *Oxford Companion to the History of Science*. (commissioned).

PRESENTATIONS (invited)

“Values, Uncertainties and Models of Climate” Science and Medicine in Society. University of South Florida, Tampa, FL, September, 2008.

“Idealization, Parameterization, and Probabilities in Models of Climate” Idealization, Abstraction and Scientific Models. Universidad Autónoma Metropolitana, Mexico City, July 2008.

“A Function for Fictions: expanding the scope of science,” Boston Center for the Philosophy and History of Science, April, 2008.

“Values and Climate Models” (with Justin Biddle) Philosophy of Science Conference, IUC, Dubrovnik, Croatia, April 2007.

“The Epistemology of Simulation: challenging an ideal”, Modeling Matter Conference, Durham, UK, March, 2008.

“Values, Uncertainty and Climate” Institute of Advanced Study Seminar, Durham, UK, March 2008.

“Models” Institute of Advanced Study Public lecture. Durham University, Durham, UK, January, 2008.

“Objective Chance in a Deterministic World?,” Philosophy Department Colloquium, University of Bielefeld, Bielefeld, Germany, May 2007.

“Laws, Probability and Induction in Statistical Mechanics,” Popper Seminar, London School of Economics, London, UK, May 2007.

“A Function for Fictions,” Philosophy of Science Conference, IUC, Dubrovnik, Croatia, April 2007.

“A Function for Fictions in Simulation,” Philosophy Department Colloquium, University of South Carolina, Columbia, SC, January 2007.

“A Function for Fictions in Simulation,” ZiF seminar, University of Bielefeld, Bielefeld, Germany, October 2006.

“A Function for Fictions in Simulation,” North American Computers and Philosophy Conference, RPI, Troy, NY, August 2006.

“Fictions and Inconsistencies in Multiscale Modeling,” Conference on Representations: Idealizations, Fictions, Reasons, Universidad Complutense de Madrid, Spain, February 2006.

“Simulations and Experiments: Questions of validation.” Conference on Models and Simulations, Harvey Mudd College, Claremont, CA, October, 2005.

Invited participant, conference on “Descrying the world in physics,” Rutgers University, New Brunswick, NJ, April 2005.

“Handshaking your way to the top: Inconsistency and falsification in intertheoretic “reduction,” University of Bielefeld, Bielefeld, Germany, June 2004.

“Can Conditioning on the “Past Hypothesis” Militate against the reversibility objections?,” Philosophy of Science colloquium, University of Maryland, College Park, MD, March 2004.

“Models of success and the success of models,” University of Konstanz, Konstanz, Germany, June 2003.

“Models of success and the success of models,” *Models, Simulation, and the Application of Mathematics*, a workshop held at the Zentrum für interdisziplinäre Forschung, The University of Bielefeld, Bielefeld, Germany, June 2003.

“Numerical Experiments: Methodology for a Virtual World,” Wichita State University, Wichita, KS, April 2001.

“Numerical Experiments: Methodology for a Virtual World,” University of South Florida, Tampa, FL, February 2001.

“Simulations, Models, and Theories: Complex Physical Systems and their Representations,” Northwestern University HPS Speakers Series, Evanston, IL, October 1999.

“Cakes, Calculators and Cumulonimbi,” Distinguished Graduate Student Colloquium, Indiana University, Bloomington, IN, October 1998.

PRESENTATIONS (submitted)

“Holism and Entrenchment in Climate Model Validation” With Johannes Lenhard, Philosophy of Science Association, Pittsburgh, PA, November, 2008.

“A Function for Fictions,” Society for the History of the Philosophy of Science (HOPOS), Paris, France, June 2006.

“Escaping the Boundaries of Scientific Representation,” Conference on Models and Simulations (MS1), IHPST, Paris, France, June 2006.

“Handshaking your way to the top: Inconsistency and falsification in intertheoretic ‘reduction’,” Philosophy of Science Association, Austin, TX, November 2004.

“Models of success and the success of models,” Society for the Social Studies of Science, Atlanta, GA, October 2003.

“On Laws and Branch Systems: Puzzles in the foundations of statistical mechanics,” Philosophy of Science Association, Milwaukee, WI, November 2002.

“Laws and Infinite Regress: Puzzles in the foundations of statistical mechanics,” Karl Popper 2002, Vienna, Austria, July 2002.

“Simulations, Models, and Theories: Complex Physical Systems and their Representations,” Philosophy of Science Association, Vancouver, British Columbia, November 2000.

“The Hierarchy of Models in Simulation,” 1998 Congress on Model-Based Reasoning, University of Pavia, Italy, December 1998.

“An Epistemology of Calculation?,” Society for the Social Studies of Science, Tucson, AZ, October 1999.

COURSES TAUGHT

Graduate level

Philosophy of Natural Science, Proseminar, The late Wittgenstein, Philosophy of Space and Time, Logical Theory, Modal Logic, Science and Social Values.

Undergraduate level

Philosophy of Natural Science, Philosophy of Mind, Introduction to Logic, Understanding Scientific Reasoning, Science and Society, Science Culture and Society, Scientific Revolutions, Minds and Machines, Revolutions in Science (Plato to NATO).

SERVICE***Department***

Undergraduate Advisor, Undergraduate Committee (chair), Philosophy of Mind Search Committee (2002, co-chair), Special Committee on Logic and Critical thinking (chair), Graduate Committee (2001-2002), Tenure and Promotion Committee.

University

Honors and Awards Committee, Special grade grievance committee.

Profession

Reviewer: SSHRC, NSF, *Philosophy of Science*, *Erkenntnis*, *Synthese*, *Studies in History and Philosophy of Science*, *Perspectives on Science*, *International Studies in Philosophy of Science*, Cambridge University Press; Program Committee: Paris Conference on Models and Simulations, Tilburg conference: Models and Simulations 2.