
ERIC WINSBERG

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Areas of Specialization: *Philosophy of Science; Philosophy of Physics.*
Areas of Competence: *Logic; Philosophy of Mind; History of 20th Century Analytic Philosophy.*

EMPLOYMENT

2006-	Associate Professor	Department of Philosophy, The University of South Florida, Tampa, FL.
2001-2006	Assistant Professor	Department of Philosophy, The University of South Florida, Tampa, FL.
1999-2001	Postdoctoral Fellow	History and Philosophy of Science Program, Northwestern University, Evanston, IL.

EDUCATION

Ph.D.	History and Philosophy of Science Thesis: Supervisor:	Indiana University Bloomington (December, 1999) <i>Simulation and the Philosophy of Science</i> Michael Friedman
B.A.	History, Philosophy and Social Studies of Science	The University of Chicago (June, 1989)

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.

PUBLICATIONS

- Books:* **Science in the Age of Computer Simulation**, in press, University of Chicago Press, expected publication July, 2010.
- Articles:* **Winsberg, E.** (2009). Computer Simulation and the Philosophy of Science. *Philosophy Compass*, Vol 4.
- Winsberg, E.** (2009). A Tale of Two Methods *Synthese*, 169 (3): 575-92
- Winsberg, E.** (2008). Laws, Chances, and Statistical mechanics. *Studies in History and Philosophy of Modern Physics*, 39 (4): 872-888.
- Winsberg, E.** (2006). Handshaking your way to the top: Inconsistency and falsification in intertheoretic reduction. *Philosophy of Science*, 73: 582-594.
- Winsberg, E.** (2006). Models of Success vs. the Success of the Models: Reliability without truth. *Synthese*, 152: 1-19.
- Winsberg, E.** (2004). Laws and Statistical Mechanics. *Philosophy of Science*, 71: 707-718.
- Winsberg, E.** (2004). Can Conditionalizing on the “Past Hypothesis” Militate Against the Reversibility Objections?” *Philosophy of Science*, 71: 489-504. [2004 award for outstanding *Philosophy of Science* article by a recent Ph.D.]
- Winsberg, E., and Fine, A.** (2003). Quantum Life: Interaction, Entanglement, and Separation. *Journal of Philosophy*, C: 80-97.
- Winsberg, E.** (2003). Simulated Experiments: Methodology for a Virtual World. *Philosophy of Science*, 70: 105-125.
- Winsberg, E.** (2001). Simulations, Models, and Theories: Complex Physical Systems and their Representations. *Philosophy of Science*, 68: S442-S454.
- Winsberg, E.** (1999). Sanctioning Models: The Epistemology of Simulation. *Science in Context*, 12 (3): 275-92.
- Book Chapters:* **Winsberg, E.** (2009). A Function for Fictions: expanding the scope of science. *Fictions in Science: Philosophical Essays on Modeling and Idealization*, Suarez, M. ed., Routledge.
- Winsberg, E. and Biddle, J.** (2009). Value Judgments and the Estimation of Uncertainty in Climate Modeling. *New Waves in the Philosophy of Science*, Magnus, P.D., and Busch, J., eds. Palgrave MacMillan.
- Winsberg, E.** (2006). 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., Springer. (Reprinted from *Philosophy of Science*, see above.)

Winsberg, E. (1999). "The Hierarchy of Models in Simulation." *Proceedings of the 1998 Congress on Model-Based Reasoning in Scientific Discovery*, Magnani, L., Nersession, N., and Thagard, P., eds., Springer.

Online Journals: **Winsberg, E.** (2008). Models and Theories at the Nanoscale *Spontaneous Generations: A Journal for the History and Philosophy of Science*, vol 2.

Book Reviews: **Winsberg, E.** (2009). Lawless Territory: Review of Angela Creager and Elizabeth Lunbeck, eds. *Science without Laws: Model Systems, Cases, Exemplary Narratives*. *Metascience*, 18(2) :265-8

Winsberg, E. (2003). Review of Lorenzo Magnani and Nancy J. Nersessian, eds. *Model-Based Reasoning Technology, Science, Values*. *Philosophy of Science*

Winsberg, E., Frisch, M., Darling, K. and Fine, A. (2000). Review of Nancy Cartwright, *The Dappled World: Essays on the Boundaries of Science*. *Journal of Philosophy*.

Winsberg, E. (2000). Review of Mathieu Marian, *Wittgenstein, Finitism, and the Foundations of Mathematics*. *Philosophy of Science*.

Reference: **Winsberg, E.** (2002). "Simulation." *Oxford Companion to the History of Science*

PRESENTATIONS

Invited: Panel on the methodological geography of simulation, Models and Simulations 4, Toronto, Ontario, May 2010

TBA, Indiana University History & Philosophy of Science colloquium series, Bloomington, Indiana, February, 2010

"Uncertainty and Risk in the Predictions of Global Climate Models", 2009 American Geophysical Union Fall Meeting, San Fransisco, December, 2009

"Chances in Statistical Mechanics", conference on Foundations of Statistical Mechanics, Rutgers University, New Brunswick, NJ, May 2009.

"Computer Simulation and the Philosophy of Science." Invited colloquium, University of Toronto, Toronto, Ontario, Canada, April, 2009

"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.

*Invited
Presentations
cont.*

“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. 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.

“When to apply the past hypothesis”, “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.

*Invited
Presentations
cont.*

“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.

*Submitted
Presentations:*

“Laws and Chances in Statistical Mechanics”, European Philosophy of Science Association, Amsterdam, October, 2009.

“Values, Uncertainties and Models of Climate,” with Justin Biddle, *Models and Simulations 3*, University of Virginia, Charlottesville, VA, March, 2009.

“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 Science, Philosophy of Space and Time, Logical Theory, Modal Logic, Truth, Science and Social Values, The Late Wittgenstein, Commercialization in Biomedical Research.

Undergraduate Level: Philosophy of Science, Philosophy of Mind, Logic, Science and Society (Understanding Scientific Reasoning), Minds and Machines, Science Culture and Society, Revolutions in Science.

SERVICE

Department: Undergraduate Advisor, Undergraduate Committee (chair), Philosophy of Mind Search Committee (co-chair), Special Committee on Logic and Critical Thinking (chair), Graduate Committee, Tenure and Promotion Committee.

University: Honors and Awards Committee, special grade grievance committee.

Profession: Reviewer: SSHRC, NSF, *Philosophy of Science*, *Philosopher's Imprint*, *Erkenntnis*, *Synthese*, *Studies in History and Philosophy of Science*, *Perspectives on Science*, *International Studies in Philosophy of Science*, *Cognitive Science*, Cambridge University Press; Program Committee: Models and Simulations Conference (MS1), MS2, MS3, MS4.