PHILOSOPHY OF SCIENCE · PHILOSOPHY OF PHYSICS · PHILOSOPHY OF CLIMATE SCIENCE

Eric B. Winsberg

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Employment _____

2014 -	Professor of Philosophy, University of South Florida	Tampa, Florida, USA
2006 -	Associate Professor of Philosophy, University of South Florida	Tampa, Florida, USA
2001 -	Assistant Professor of Philosophy, University of South Florida	Tampa, Florida, USA
1999 -	Postdoctoral Fellow, Northwestern University	Evanston, IL, U.S.A
Educ 1999	Ph.D. in History and Philosophy of Science, Indiana University	Bloomington, IN
1989	B.A., History, Philosophy and Social Studies of Science and Medicine, University of Chicago	Chicago, IL
Visiti	ng Fellowships	
2016	Senior Fellow, Institute for Advanced Study, Leuphana University	Lüneburg, Germany

- Fellow, Center for Advanced Study, MCMP, Ludwig Maximilians Universität 2013 Munich, Germany 2013 Visiting Scholar, Department of Philosophy, University of California Berkeley, CA, USA
- Fellow, Institute of Advanced Study, University of Durham 2008
- Fellow, Center for Interdisciplinary Studies (ZiF), University of Bielefeld 2006

Books

ERIC WINSBERG

• An introduction to the major topics in the philosophy of climate science

Science in the Age of Computer Simulation

ERIC WINSBERG

• Short list for the 2011 Lakatos Award

• Reviewed in: Science, Physics Today, Metascience, Notre Dame Philosophical Reviews, Theoria, Minds and Machines.

• Author meets critics at 2011 Eastern APA

Climate Modeling: Philosophical and Conceptual Issues

ELISABETH S. LLOYD AND ERIC WINSBERG, EDS.

• A collection of papers on the foundations of climate models. Confirmed contributors include Nancy Cartwright, Mathias Frisch, Reto Knutti, Michael Mann, Linda Mearns, Jonathan Rougier, Ben Santer, Nancy Cartwright, Elisabeth Lloyd, Jay Odenbaugh, Naomi Oreskes, Wendy Parker, and Eric Winsberg

Edited Journals

2014 Special Issue on Climate Science, Journal for General Philosophy of Science

Palarave Macmillan

Durham, UK

Bielefeld, Germany

Cambridge University Press

University of Chicago Press

2018

2018

2010

Journal Articles _____

What does Robustness Teach us in Climate Science: a re-appraisal	Winsberg, E.
Sythese	2018
Values and Evidence: How Models Make a Difference	Parker, W., Winsberg, E.
European Journal for Philosophy of Science	2017
The Adventures of Climate Science in the Sweet Land of Idle Dreams	Winsberg, E., Goodwin, W.
Studies in History and Philosophy of Modern Physics	2016
Missing the Forest for the Fish: how much does the 'hawkmoth effect' threaten	Goodwin. W, Winsberg, E.
the viability of climate projections?	oodunin. W, Winsberg, E.
Philosophy of Science	2016
Confirmation via Analogue Simulation: What Dumb Holes Could Tell us About	Dardashti, R., Thébault, K.,
Gravity	Winsberg, E.
British Journal for the Philosophy of Science	2015
Accountability and Values in Radically Collaborative Research	Winsberg, E., Huebner, B., Kukla, R.
Studies in History and Philosophy of Science	2014
Bumps on the Road to Here (from Eternity)	Winsberg, E.
Entropy 14(3), 390-406	2012
Values and Uncertainties in the Predictions of Global Climate Models	Winsberg, E.
Kennedy Institute of Ethics Journal 22 (2), 111-137	2012
Holism, Entrenchment, and the Future of Climate Model Pluralism	Lenhard, J., and Winsberg, E.
Studies in History and Philosophy of Modern Physics 41 (3): 253-262	2012
A Tale of Two Methods	Winsberg, E.
Synthese 169 (3): 575-92	2009
Laws and Chances in Statistical Mechanics	Winsberg, E.
Studies in History and Philosophy of Modern Physics 39 (4): 872-888	2008
Handshaking Your Way to the Top: Inconsistency and falsification in	
intertheoretic reduction	Winsberg, E.
Philosophy of Science 73: 582-594	2006
Models of Success vs. the Success of Models: Reliability without truth	Winsberg, E.
Synthese 152: 1-19	2006
Laws and Statistical Mechanics	Winsberg, E.
Philosophy of Science 71: 707-718	2004
Can Conditionalizing on the "Past Hypothesis" Militate Against the Reversibility	
Objections?	Winsberg, E.
Philosophy of Science 71: 489-504	2004
winner of 2004 award for outstanding Philosophy of Science article by a recent Ph.D	
Quantum Life: Interaction, Entanglement, and Separation	Winsberg, E. and Fine, A.
Journal of Philosophy C: 80-97	2003

Simulated Experiments: Methodology for a Virtual World Philosophy of Science 70: 105-125	Winsberg, E. 2003
Simulations, Models, and Theories: Complex Physical Systems and their Representations	Winsberg, E.
Philosophy of Science 68: S442-S454	2001
Sanctioning Models: The Epistemology of Simulation Science in Context 12 (3): 275-92	Winsberg, E. 1999
Encyclopedia Entries	
Computer Simulation in Science Stanford Encyclopedia of Philosophy	<i>Winsberg, E.</i> 2013
Computer Simulation and the Philosophy of Science <i>Philosophy Compass</i> , VoL 4	Winsberg, E. 2009
Simulation Oxford Companion to the History of Science	Winsberg, E. 2002
Book Chapters	
Uncertainty Quantification in Climate Modelling <i>Philosophical and Conceptual Issues in Climate Modeling</i> , Edited by Winsberg, E. and Lloyd, E., Palgrave MacMillan	<i>Winsberg, E.</i> 2018
The Metaphysical Foundations of Statistical Mechanics: on the status of PROB and PH	Winsberg, E.
<i>Time's arrow and the Probability Structure of the World</i> , edited by Loewer, B., Winsberg, E. and Weslake, B Harvard University Press	. , 2018
Success and Scientific Realism: Considerations from the Philosophy of Simulation	Winsberg, E. and Mirza, A.
Routledge Handbook on Scientific Realism, edited by Juha Saatsi, Routledge	2017
Making an Author in Radically Collaborative Research	Huebner, B., Kukla, R. and Winsberg, E.
The Collective Dimensions of Science, edited by Weisberg, Mayo-Wilson and Boyer, Oxford University Press	2017
Deflationism, Pragmatism, and Metaphysics	Kukla, R., and Winsberg, E.
Aspects of Anti-Representationalism: Truth, Expression, Normativity, and Naturalism, edited by Steven Gross, Nicholas Tebben, and Michael Williams, Oxford University Press	2015
A Function for Fictions: Expanding the scope of science	Winsberg, E.
Fictions in Science: Philosophical Essays on Modeling and Idealization EDITED BY SUAREZ, M., ROUTLEDGE	2009
Value Judgments and the Estimation of Uncertainty in Climate Modeling New Waves in the Philosophy of Science, Edited By Magnus, P.D., and Busch, J., Palgrave MacMillan	Biddle, J. and Winsberg, E. 2009

Book Reviews

Simulation and Similarity Notre Dame Philosophical Reviews	Michael Weisberg 2013
Science without Laws: Model Systems, Cases, Exemplary Narratives Metascience, 18(2): 265-8	A. Creager & E. Lunbeck, eds 2009
Model-Based Reasoning Technology, Science, Values Philosophy of Science	L. Magnani & N. Nersessian,eds. 2003
The Dappled World: Essays on the Boundaries of Science <i>Journal of Philosophy</i> with Frisch, M., Darling, K., and Fine, A.	Nancy Cartwright 2002

Invited keynotes, plenaries, etc.

Simulation in Cosmology	Washington, DC
American Philosophical Association Pacific Division Meeting	April, 2017
 Invited symposium on physics and cosmology in practice 	
'Testing this Extraordinary Scenario': Simulation and models of Big Bang	Irvine, California
cosmology	nvine, cuilornia
Methodology and Epistemology in Cosmology Conference Plenary talk 	February, 2017
Confirmation in Analog and Computer Simulation	Washington, DC
American Philosophical Association Eastern Division Meeting	January, 2016
Invited symposium on computer simulation	
Threats to Model Confidence: A Cautionary Tale	Copenhagen, Denmark
Design Modeling Symposium	October, 2015
Keynote Address	
How important is the Hawkmoth Effect for Climate Science?	Rotman Institute, London, ON, CA
Knowledge and Models in Climate Science	October, 2014
Plenary talk	
Values and Uncertainties in Climate Modeling	Eindhoven, Netherlands
Values and Norms in Modeling	June, 2012
Keynote Address	
Author Meets Critics: Science in the Age of Computer Simulation	Washington, DC
American Philosophical Association Eastern Division Meeting	December 2011
Critics: Isabelle Peschard, Wendy Parker	
Verification and Validation	IRMACS, Burnaby, BC, Canada
Scientific Modeling at SFU: Thematic Year 2011	April, 2011
Keynote Address	

Other Presentations _____

SELECTED INVITED PRESENTATIONS SINCE 2013 Probability in Weather and Climate

DEPARTMENT COLLOQUIUM

Ruhr-Universität Bochum June 2016

Confirmation in Analog and Computer Simulation Department Colloquium	Leibniz Universität Hannover April 2016
Confirmation in Analog and Computer Simulation	MECS, Universität Leuphana January 2016
Confirmation in Analog and Computer Simulation Modeling and Representation conference	San Sebastian, Spain December 2015
Reflections on the Relationship between Verification and Validation in Computer Simulation	Stuttgart, Germany
Workshop on "The Art and Science of Simulation"	October 2015
Reflections on the Relationship between Verification and Validation in Computer Simulation	Hannover, Germany
Workshop on "How to Build Trust in Computer Simulations: Towards a General Epistemology of Validation."	July 2015
Values and uncertainties in the predictions of global climate models Workshop on "Uncertainty in Climate Modeling"	Pittsburgh Center for the Philosophy of Science, PA February 2015
The adventures of climate science in the sweet land of idle arguments	University of Pittsburgh Philosophy Department, PA
WORKSHOP ON "CLIMATE MODELING AND PUBLIC POLICY"joint work with William Goodwin	February 2015
Confirmation via Analogue Simulation: What Dumb Holes Could Tell us About	Geneva, Switzerland
Gravity Models and Experiments Workshop • joint work with Radin Dardashti and Karim Thébault	June, 2014
How anti-realists could learn to stop worrying and love unobservables Department Colloquium	University of Maryland March, 2014
How anti-realists could learn to stop worrying and love unobservables Reduction and Emergence in Science Workshop	LMU, Munich, Germany July, 2013
Confirmation via Analogue Simulation: What Dumb Holes Could Tell us About	LMU, Munich, Germany
Gravity Reduction and Emergence in Science Workshop • with Radin Dardashti and Karim Thébault	July, 2013
Handshaking Your Way to the Top Multiscale Modeling and Architecture. Center for Information Technology and Architechture	Copenhagen, Denmark May 2013
Fuzzy Modularity Cultures of Energy Spring Symposium	Rice University, Houston, TX April 2013
Climate Uncertainty and Ambiguity Aversion	UC, Berkeley March 2013

SELECTED RECENT SUBMITTED PRESENTATIONS Missing the Forest for the Fish: uncertainty in climate modeling Philosophy of Science Association • with William Goodwin	Chicago, IL November 2014
Confirmation via Analogue Simulation: What Dumb Holes Could Tell us About Gravity PHILOSOPHY OF SCIENCE ASSOCIATION • with Radin Dardashti and Karim Thébault	Chicago, IL November 2014
Confirmation via Analogue Simulation: What Dumb Holes Could Tell us About Gravity BRITISH SOCIETY FOR THE PHILOSOPHY OF SCIENCE • with Radin Dardashti and Karim Thébault	Cambridge, UK November 2014
Deflationism, Pragmatism and Metaphysics FLORIDA PHILOSOPHICAL ASSOCIATION • with with Rebecca Kukla	Orlando, Florida November 2012
Deflationism, Pragmatism and Metaphysics Florida Philosophical Association	Orlando, Florida November 2012
Deflationism, Pragmatism and Metaphysics New Science—New Risks: Center for Philosophy of Science	University of Pittsburgh, PA March 2012
Levels of Shared Epistemic Norms European Philosophy of Science Association	Athens, Greece October, 2011

Laws and Chances in Statistical Mechanics

EUROPEAN PHILOSOPHY OF SCIENCE ASSOCIATION

Courses Taught _____

Graduate

Philosophy of Science, Philosophy of Space and Time; Logical Theory; Modal Logic: Truth; Science and Social Values; The Late Wittgenstein; Commercialization in Biomedical Research; Wittgenstein and use theories of meaning.

Undergraduate

Philosophy of Science; Philosophy of Mind; Logic; Epistemology; Science and Society (Understanding Scientific Reasoning); Minds and Machines; Science Culture and Society; Revolutions in Science; Philosophy Capstone Seminar ("Time in Philosophy, Literature and Film").

Service _

Department

Undergraduate Advisor; Undergraduate Committee (chair); Director of Placement; Philosophy of Mind Search Committee (co-chair); Special Committee on Logic and Critical Thinking (chair); Graduate Committee; Tenure and Promotion Committee (chair). USF Philosophy

Amsterdam, Netherlands

October, 2009

University Honors and Awards Committee; Instructor Promotions Committee; special grade grievance committee.	USF
Profession NSF; SSHRC (Canada); FWF (Austria); NWO (Netherlands); DFG (Germany); Wellcome Trust (UK).	Grant review
Profession Philosophy of Science; British Journal for the Philosophy of Science; Philosopher's Imprint; Erkenntnis; Synthese; Studies in History and Philosophy of Science; Studies in History and Philosophy of Modern Physics; Studies in History and Philosophy of Biology; Perspectives on Science; International Studies in Philosophy of Science; Cognitive Science; Entropy; Kennedy Institute of Ethics Journal; Philosophy of Technology; Public Affairs Quarterly; Simulation and Gaming; Erasmus Journal for Philosophy and Economics	Journal referee
Profession Cambridge University Press; University of Chicago Press; Routledge; Prentice-Hall.	Manuscript review
Profession Philosophy of Science Association; Models and Simulations Conferences: (MS1, MS2, MS3, MS4, MS5, MS7); Inconsistency Robustness	Program Committees

Languages _____

Fluent English; French

Intermediate

German