

Eric B. Winsberg

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Philosophy of Science · Ethics of Computer Simulation · Philosophy of Climate (+1) 727-798-4060
Science

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Employment

British Academy Global Professor of History and Philosophy of Science	Cambridge, UK	2023 -
University of Cambridge		
Professor of Philosophy	Tampa, FL	2014 -
University of South Florida (on leave 2023-2027)		
Associate Professor of Philosophy	Tampa, FL	2006 -
University of South Florida		
Assistant Professor of Philosophy	Tampa, FL	2001 -
University of South Florida		
Postdoctoral Fellow	Evanston, IL	1999 -
Northwestern University		

Education

Ph.D. in History and Philosophy of Science	Bloomington, IN	1999
Indiana University		
B.A., History, Philosophy and Social Studies of Science and Medicine	Chicago, IL	1989
University of Chicago		

Grants

Complex modelling and political decision making: Addressing technical and moral problems	2022-2026: £890,000
Winsberg, E.	
<i>The British Academy</i>	
Involving transdisciplinary model users in policy-oriented simulation modelling	2025-2028: CA\$199,543
Collaborator [PI: Kate Johnson, University of British Columbia (UBC)]	
<i>Social Sciences and Humanities Research Council; Canadian Institutes of Health Research; Micheal Smith Health Research BC</i>	

Demographic factors in intended major and completed major: a comparison of philosophy and other disciplines	2018: \$2,800
Winsberg, E., Schwitzgebel, E., Thompson, M.	
<i>American Philosophical Association</i>	
How can health economic models better reflect patient and public values? Understanding stakeholder perspectives and research priorities through the Peer Models Network	2021: CA\$15,000
Collaborator [PI: Mohsen Sadatsafavi, University of British Columbia (UBC)]	
<i>Michael Smith Foundation for Health Research Convening and Collaborating Grant</i>	

Fellowships

British Academy Global Professor	Cambridge, UK	2023-27
History and Philosophy of Science, University of Cambridge		
Visiting Scholar	San Diego, CA, USA	2020
Institue for Practical Ethics, University of California		
Senior Fellow	Lüneburg, Germany	2016
Institute for Advanced Study, Leuphana University		
Fellow	Munich, Germany	2013
Center for Advanced Study, MCMP, Ludwig Maximilians Universität		
Visiting Scholar	Berkeley, CA, USA	2013
Department of Philosophy, University of California		
Fellow	Durham, UK	2008
Institute of Advanced Study, University of Durham		
Fellow	Bielefeld, Germany	2006
Center for Interdisciplinary Studies (ZiF), University of Bielefeld		

Books

Philosophy and Climate Science	2018
Cambridge University Press	
<i>Eric Winsberg</i>	
• Reviewed in: <i>Notre Dame Philosophical Reviews</i> , <i>the British Journal for Philosophy of Science</i> , <i>Philosophy of Science</i> , <i>Journal for General Philosophy of Science</i> , and <i>Ethics, Policy and Environment</i> .	
• CHOICE Honorable Mention award, Atmospheric Science Librarians International	
Science in the Age of Computer Simulation	2010
University of Chicago Press	
<i>Eric Winsberg</i>	
• Short list for the 2011 Lakatos Award	
• Reviewed in: <i>Science</i> , <i>Physics Today</i> , <i>Metascience</i> , <i>Notre Dame Philosophical Reviews</i> , <i>Theoria</i> , <i>Minds and Machines</i> .	
• Author meets critics at 2011 Eastern APA	

Cambridge Elements: Models in Science and Decision Making

2024

Cambridge University Press

*Eric Winsberg and Stephanie Harvard***The Probability Map of the Universe: Essays on David Albert's Time and Chance**

2023

Harvard University Press

Barry Loewer, Brad Weslake, and Eric Winsberg, eds.

- A collection of papers on the foundations of statistical mechanics and the arrow of time.

Climate Modeling: Philosophical and Conceptual Issues

2018

Palgrave Macmillan

Elisabeth S. Lloyd and Eric Winsberg, eds.

- A collection of papers on the foundations of climate models. 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**Special Issue on Gatekeeping in Science**

2025

*Synthese (ed. w/ Katherine Dormandy)***Special Issue on Climate Science**

2014

*Journal for General Philosophy of Science***Public Contributions****Documentary Film Subject****Moral Models: Crucial Decisions in the Age of Computer Simulation**

2022

A

Salazar Film

25-minute extended interview exploring the social and ethical significance of simulation modeling in the Covid-19 Pandemic

Video**Science & Social Values: Values in Modelling**

2020

A

Harvard, S., Winsberg, E.

7-part video series on scientific modelling and social values, with a focus on health economics.

Print Media**We Need Scientific Dissidents Now More than Ever: The early artificial consensus around Covid's origins is a wake-up call**

2023

Winsberg, E.

The Chronicle of Higher Education

Coronavirus: why it's dangerous to blindly 'follow the science' when there's no consensus yet 2020

Winsberg, E., Schliesser, E., Levy, N.

The Conversation

Climate and coronavirus: the science is not the same

2020

Winsberg, E., Schliesser, E.

The New Statesman

Other Media

Epidemiological Modeling, Policy, and Covid-19

2020

Winsberg, E., Symons, J., Kaufman, D.

Meaningoflife.tv

Pandemic and Policy, a virtual conversation with Elizabeth Anderson (University of Michigan - Ann Arbor), Alexander Broadbent (University of Johannesburg) and Eric Winsberg (University of South Florida) 2020

Winsberg, E., Braodbent, A., Anderson, E.

University of Cambridge Public Seminar in History and Philosophy of Science

Journal Articles

Bureaucratic Science: A Public Choice Analysis of Gatekeeping during COVID-19. 2025

Winsberg, E.

Synthese

The Perverse Incentives of Climate Integration: Why Researchers Can't Deliver What Funding Institutions Demand 2025

Winsberg, E.

Philosophy and Public Affairs

The 'Values in Modelling' framework for patient and public involvement in health economics modelling: development and application in the LEAP model project. 2025

Harvard, S., R. Carter, S. H. Chong, T. Lanier, Z. Zeyan, A. Adibi, S. Lee, C. Novacovik, M. Ewert, E. B. Winsberg, and K. Johnson.

Pharmacoeconomics

Managing Values in Science: A return to decision theory

2025

Winsberg, E.

Kennedy Institute of Ethics Journal

Falsehoods Fly: a review essay

2024

Winsberg, E.

The Journal of Value Inquiry

'Managing values' in health economics modelling: philosophical and practical considerations

2024

Harvard, S., Winsberg, E.

Social Science and Medicine

Three Hidden Disagreements Over E-Cigarettes	2024
Harvard, S., Winsberg, E., Duan, K., Carlsten, C.	
<i>Annals of the American Thoracic Society</i>	
Patient and Public Involvement in Health Economics Modelling Raises the Need for Normative Guidance	2023
Harvard, S., Winsberg, E.	
<i>Pharmacoeconomics</i>	
Who is responsible for global health inequalities after Covid-19?	2022
Winsberg, E.	
<i>Global Epidemiology</i>	
Purposes and Duties in Scientific Modeling	2022
Harvard, S., Winsberg, E.	
<i>Journal of Epidemiology and Community Health</i>	
Putting Races on the Ontological Map: a Close Look at Spencer's 'New Biology' of Race.	2022
Winsberg, E.	
<i>Biology & Philosophy</i>	
The Epistemic Risk in Representation	2022
Harvard, S., Winsberg, E.	
<i>Kennedy Institute of Ethics Journal</i>	
Causal Inference, Moral Intuition, and Modeling in a Pandemic	2021
Harvard, S., Winsberg, E.	
<i>Philosophy of Medicine</i>	
Don't Stop Thinking About Tomorrow!	2021
Winsberg, E.	
<i>Pacific Philosophical Quarterly</i>	
Value Judgments in a COVID-19 Vaccination model: a Case Study in the Need for Public Involvement in Health-oriented Modelling	2021
Harvard, S., Winsberg, E., Symons, J., Adibi, A.	
<i>Social Science & Medicine</i>	
The Diversity of Philosophy Students and Faculty in the United States	2021
Schwitzgebel, E, Bright, L.K., Jennings, C.D., Thompson, M. and Winsberg, E.	
<i>The Philosophers' Magazine</i>	
This Paper Attacks a Strawman, and the Strawman Wins: A Reply to van Basshuuyen and White	2021
Winsberg, E., Brennan, J., Surprenant, C.	
<i>Kennedy Institute of Ethics Journal</i>	
A Modest Defense of Geoengineering Research	2021
Winsberg, E.	
<i>Philosophy and Technology</i>	
How Government Leaders Violated Their Epistemic Duties during the SARS-CoV-2 Crisis	2020
Winsberg, E., Brennan, J., Surprenant, C.	
<i>Kennedy Institute of Ethics Journal</i>	
Severe Weather Event Attribution: Why Values Won't Go Away	2020
Winsberg, E., Oreskes N., Lloyd, E.	
<i>Studies in History and Philosophy of Science</i>	

Hawking Radiation and Analogue Experiments: a Bayesian Analysis	2019
Dardashti, R., Hartmann, S., Thébault, K., Winsberg, E.	
<i>Studies in History & Philosophy of Modern Physics</i>	
An Antidote for Hawkmoths: a Response to Recent Arguments Grounded in the Topology of Dynamical Systems	2018
Nabergall, L., Navas, A., Winsberg, E.	
<i>European Journal for Philosophy of Science</i>	
What does Robustness Teach us in Climate Science: a Re-appraisal	2018
Winsberg, E.	
<i>Sythese</i>	
Values and Evidence: How Models Make a Difference	2017
Parker, W., Winsberg, E.	
<i>European Journal for Philosophy of Science</i>	
The Adventures of Climate Science in the Sweet Land of Idle Dreams	2016
Winsberg, E., Goodwin, W.	
<i>Studies in History and Philosophy of Modern Physics</i>	
Missing the Forest for the Fish: How Much does the 'Hawkmoth effect' Threaten the Viability of Climate Projections?	2016
Goodwin, W., Winsberg, E.	
<i>Philosophy of Science</i>	
Confirmation via Analogue Simulation: What Dumb Holes could tell us about Gravity	2015
Dardashti, R., Thébault, K., Winsberg, E.	
<i>British Journal for the Philosophy of Science</i>	
Accountability and Values in Radically Collaborative Research	2014
Winsberg, E., Huebner, B., Kukla, R.	
<i>Studies in History and Philosophy of Science</i>	
Bumps on the Road to Here (from Eternity)	2012
Winsberg, E.	
<i>Entropy 14(3), 390-406</i>	
Values and Uncertainties in the Predictions of Global Climate Models	2012
Winsberg, E.	
<i>Kennedy Institute of Ethics Journal 22 (2), 111-137</i>	
Holism, Entrenchment, and the Future of Climate Model Pluralism	2012
Lenhard, J., and Winsberg, E.	
<i>Studies in History and Philosophy of Modern Physics 41 (3): 253-262</i>	
A Tale of Two Methods	2009
Winsberg, E.	
<i>Synthese 169 (3): 575-92</i>	
Laws and Chances in Statistical Mechanics	2008
Winsberg, E.	
<i>Studies in History and Philosophy of Modern Physics 39 (4): 872-888</i>	
Handshaking Your Way to the Top: Inconsistency and Falsification in Intertheoretic Reduction	2006
Winsberg, E.	
<i>Philosophy of Science 73: 582-594</i>	

Models of Success vs. the Success of Models: Reliability without Truth	2006
Winsberg, E.	
<i>Synthese</i> 152: 1-19	
Laws and Statistical Mechanics	2004
Winsberg, E.	
<i>Philosophy of Science</i> 71: 707-718	
Can Conditionalizing on the “Past Hypothesis” Militate Against the Reversibility Objections?	2004
Winsberg, E.	
<i>Philosophy of Science</i> 71: 489-504	
winner of 2004 award for outstanding Philosophy of Science article by a recent Ph.D	
Quantum Life: Interaction, Entanglement, and Separation	2003
Winsberg, E. and Fine, A.	
<i>Journal of Philosophy C</i> : 80-97	
Simulated Experiments: Methodology for a Virtual World	2003
Winsberg, E.	
<i>Philosophy of Science</i> 70: 105-125	
Simulations, Models, and Theories: Complex Physical Systems and their Representations	2001
Winsberg, E.	
<i>Philosophy of Science</i> 68: S442-S454	
Sanctioning Models: The Epistemology of Simulation	1999
Winsberg, E.	
<i>Science in Context</i> 12 (3): 275-92	

Encyclopedia Entries

Computer Simulation in Science	2013
Winsberg, E.	
<i>Stanford Encyclopedia of Philosophy</i>	
Computer Simulation and the Philosophy of Science	2009
Winsberg, E.	
<i>Philosophy Compass, Vol 4</i>	
Simulation	2002
Winsberg, E.	
<i>Oxford Companion to the History of Science</i>	

Book Chapters

Representational Risk	2017
Winsberg, E. and Harvard, S.	
<i>Routledge Handbook on Science and Values, edited by Kevin Elliot and Ted Richards, Routledge</i>	

The Metaphysics of PROB and PH	2023
Winsberg, E.	
<i>Time's arrow and the Probability Structure of the World, edited by Loewer, B., Winsberg, E. and Weslake, B., Harvard University Press</i>	
Uncertainty Quantification in Climate Modelling	2018
Winsberg, E.	
<i>Philosophical and Conceptual Issues in Climate Modeling, edited by Winsberg, E. and Lloyd, E., Palgrave MacMillan</i>	
Success and Scientific Realism: Considerations from the Philosophy of Simulation	2017
Winsberg, E. and Mirza, A.	
<i>Routledge Handbook on Scientific Realism, edited by Juha Saatsi, Routledge</i>	
Making an Author in Radically Collaborative Research	2017
Huebner, B., Kukla, R. and Winsberg, E.	
<i>The Collective Dimensions of Science, edited by Weisberg, Mayo-Wilson and Boyer, Oxford University Press</i>	
Deflationism, Pragmatism, and Metaphysics	2015
Kukla, R., and Winsberg, E.	
<i>Aspects of Anti-Representationalism: Truth, Expression, Normativity, and Naturalism, edited by Steven Gross, Nicholas Tebben, and Michael Williams, Oxford University Press</i>	
A Function for Fictions: Expanding the Scope of Science	2009
Winsberg, E.	
<i>Fictions in Science: Philosophical Essays on Modeling and Idealization edited by Suarez, M., Routledge</i>	
Value Judgments and the Estimation of Uncertainty in Climate Modeling	2009
Biddle, J. and Winsberg, E.	
<i>New Waves in the Philosophy of Science, edited by Magnus, P.D., and Busch, J., Palgrave MacMillan</i>	

Book Reviews

Nature, the Artful Modeler	2019
Nancy Cartwright	
<i>Notre Dame Philosophical Reviews</i>	
Simulation and Similarity	2013
Michael Weisberg	
<i>Notre Dame Philosophical Reviews</i>	
Science without Laws: Model Systems, Cases, Exemplary Narratives	2009
A. Creager & E. Lunbeck, eds	
<i>Metascience, 18(2): 265-8</i>	
Model-Based Reasoning: Technology, Science, Values	2003
L. Magnani & N. Nersessian, eds.	
<i>Philosophy of Science</i>	
The Dappled World: Essays on the Boundaries of Science	2002
Nancy Cartwright	
<i>Journal of Philosophy</i>	

with Frisch, M., Darling, K., and Fine, A.

Wittgenstein, Finitism and the Foundations of Mathematics

Mathieu Marion

Philosophy of Science

2000

Summer Schools, etc. Taught

Scientific Models and Decision Making

Davdison University

North Carolina 2024

Climate Science: Historical, Philosophical and Sociological Issues

University of Vienna

Vienna, Austria 2022

Philosophy of Cosmology

Western University and University of California, Irvine

Gonderich, Ontario 2018

Presentations (selected, recent)

Representational Risk in Climate Models

Stanford University

December, 2024

Philosophy and the Environment Workshop

Managing Vaus in Science: a return to decision theory

University of Hannover

June, 2024

SOCRATES workshop: Trust in Science

From Modelling Climate Change to Modelling Epidemics and Beyond: Moral-Epistemic Duties in Model Building

KU, Lueven, Belgium

May, 2024

Biennial Herman Roelants Lecture on Science

So Friggin' Likely: Gatekeeping during the Covid Pandemic

University of Innsbruck, Austria

April, 2024

Scientific Gatekeeping

From Modelling Climate Change to Modelling Epidemics and Beyond: Moral-Epistemic Duties in Model Building

KU, Lueven, Belgium

May, 2024

Biennial Herman Roelants Lecture on Science

Managing Vaus in Science: a return to decision theory

University of Bristol

October, 2023

Department Colloquium

What can Covid Modeling Teach us about public Participation in Science?

University of Cambridge

February, 2023

Department Colloquium

Cost Benefit Models and their Alternatives

University of Lund, Sweden

September, 2023

Climate Economics Workshop

A Modest Defense of Geoengineering Research: a Case Study in the Cost of Learning	December, 2021
Utrecht, Netherlands	
<i>the Institute for Marine and Atmospheric research Utrecht (IMAU)</i>	
Value Judgments in Modeling and Causal Inference for Decision-Making	October, 2021
University of British Columbia, BC, Canada	
<i>Faculty of Pharmaceutical Sciences</i>	
Value Judgments in a Covid-19 Vaccination Model	October, 2021
University of Guelph, Ontario, CA	
<i>Philosophy Department Colloquium</i>	
The Joint Strategy in Simulation Modeling: Machine Learning in Parameterization	June, 2021
Max Planck Institute for the History of Science, Berlin, Germany	
<i>Approximation Methods: Historical and Philosophical Perspectives</i>	
Severe Weather Event Attribution: Why Values Won't Go Away	June, 2021
Leibniz University, Germany	
<i>10th Anniversary Conference of the Institute of Philosophy at the Leibniz University</i>	
Causal Inference in Non-linear Systems	June, 2021
Franke Program in Science and the Humanities, Yale University	
<i>Understanding the Nature of Inference: Causation and Correlation</i>	
Covid Modeling: How it Started, Where We are Now.	March, 2021
George Mason University	
<i>George Mason Pandemic Modeling Forum</i>	
Simulations and Dark Matter	March, 2021
Denver	
<i>American Physical Society</i>	
What is a Cause and Why does it always Precede its Effect? Reply to Carlo Rovelli	February, 2021
Franke Program in Science and the Humanities, Yale University	
<i>Understanding the Nature of Inference: Causation and Correlation</i>	
Models, Values, and Precaution	February, 2021
Online	
<i>American Philosophical Association, Central Division meeting</i>	
Philosophy, Science and Pandemics: Why the Models Failed Us	November, 2020
Barcelona, Spain	
<i>Barcelona Institute for Analytic Philosophy</i>	
Why Study Solar Radiation Management? A Case Study in the Cost of Acquiring New Evidence	September, 2020
National Institute of Advanced Studies, Bengaluru	
<i>Philosophy of Science Group in India</i>	
A Modest Defense of Geoengineering Research	April, 2020
University of California, San Diego	
<i>Climate Technologies Workshop</i>	
Simulating Epidemics: Why the Models Failed Us	December, 2020
Orlando, FL	
<i>Winter Simulation Conference</i>	

Evidence in Simulation Stillwater, Minnesota <i>Seven Pines Conference</i>	June, 2018
Robustness Rebooted Seattle Washington <i>Philosophy of Science Association</i>	November 2018
A Framework for Emergent Constraints in Climate Science Oxford, UK <i>British Society for the Philosophy of Science</i>	July, 2018
Simulation in Cosmology Washington, DC <i>American Philosophical Association Pacific Division Meeting</i>	April, 2017
<ul style="list-style-type: none"> Invited symposium on physics and cosmology in practice 	
'Testing this Extraordinary Scenario': Simulation and Models of Big Bang Cosmology Irvine, California <i>Methodology and Epistemology in Cosmology Conference</i>	February, 2017
<ul style="list-style-type: none"> Plenary talk 	
Confirmation in Analog and Computer Simulation Washington, DC <i>American Philosophical Association Eastern Division Meeting</i>	January, 2016
<ul style="list-style-type: none"> Invited symposium on computer simulation 	
Threats to Model Confidence: A Cautionary Tale Copenhagen, Denmark <i>Design Modeling Symposium</i>	October, 2015
<ul style="list-style-type: none"> Keynote Address 	
How Important is the Hawkmoth Effect for Climate Science? Rotman Institute, London, ON, CA <i>Knowledge and Models in Climate Science</i>	October, 2014
<ul style="list-style-type: none"> Plenary talk 	
Author Meets Critics: Science in the Age of Computer Simulation Washington, DC <i>American Philosophical Association Eastern Division Meeting</i>	December 2011
<ul style="list-style-type: none"> Critics: Isabelle Peschard, Wendy Parker 	
Verification and Validation IRMACS, Burnaby, BC, Canada <i>Scientific Modeling at SFU: Thematic Year 2011</i>	April, 2011
<ul style="list-style-type: none"> Keynote Address 	

Other Presentations

Selected Invited Presentations since 2013

A Modest Defense of Geoengineering Research: a Case Study in the Cost of Learning Utrecht, Netherlands <i>the Institute for Marine and Atmospheric research Utrecht (IMAU)</i>	December, 2021
Value Judgments in Modeling and Causal Inference for Decision-Making University of British Columbia, BC, Canada <i>Faculty of Pharmaceutical Sciences</i>	October, 2021
Value Judgments in a Covid-19 Vaccination Model University of Guelph, Ontario, CA <i>Philosophy Department Colloquium</i>	October, 2021
The Joint Strategy in Simulation Modeling: Machine Learning in Parameterization Max Planck Institute for the History of Science, Berlin, Germany <i>Approximation Methods: Historical and Philosophical Perspectives</i>	June, 2021
Severe Weather Event Attribution: Why Values Won't Go Away Leibniz University, Germany <i>10th Anniversary Conference of the Institute of Philosophy at the Leibniz University</i>	June, 2021
Causal Inference in Non-linear Systems Franke Program in Science and the Humanities, Yale University <i>Understanding the Nature of Inference: Causation and Correlation</i>	June, 2021
Covid Modeling: How it Started, Where We are Now. George Mason University <i>George Mason Pandemic Modeling Forum</i>	March, 2021
Simulations and Dark Matter Denver <i>American Physical Society</i>	March, 2021
What is a Cause and Why does it always Precede its Effect? Reply to Carlo Rovelli Franke Program in Science and the Humanities, Yale University <i>Understanding the Nature of Inference: Causation and Correlation</i>	February, 2021
Models, Values, and Precaution Online <i>American Philosophical Association, Central Division meeting</i>	February, 2021
Philosophy, Science and Pandemics: Why the Models Failed Us Barcelona, Spain <i>Barcelona Institute for Analytic Philosophy</i>	November, 2020
Why Study Solar Radiation Management? A Case Study in the Cost of Acquiring New Evidence National Institute of Advanced Studies, Bengaluru <i>Philosophy of Science Group in India</i>	September, 2020
A Modest Defense of Geoengineering Research University of California, San Diego <i>Climate Technologies Workshop</i>	April, 2020
Severe Weather Event Attribution: Why Values Won't Go Away University of California, San Diego <i>Institute Colloquium, Institute for Practical Ethics</i>	March, 2020

A Modest Defense of Geoengineering Research	July, 2019
Dalhousie University, NS, Canada	
<i>Department Colloquium</i>	
Severe Weather Event Attribution: Why Values Won't Go Away	April, 2019
Boston University, MA	
<i>Department Colloquium</i>	
Philosophy and Climate Science	January, 2019
St Edwards University, TX	
<i>Department Colloquium</i>	
Simulation and Experiment	July, 2018
University of Bristol, UK	
<i>Workshop on Analog Experiments</i>	
Values and Event Attribution	April, 2018
University of Chicago	
<i>Philosophy and Politics of Climate Change</i>	
Model Skill	March, 2018
Rome, Italy	
<i>Will Science Remain Human</i>	
Probability in Weather and Climate	June 2016
Ruhr-Universität Bochum	
<i>Department Colloquium</i>	
Confirmation in Analog and Computer Simulation	April 2016
Leibniz Universität Hannover	
<i>Department Colloquium</i>	
Confirmation in Analog and Computer Simulation	January 2016
MECS, Universität Leuphana	
<i>Interferences Events</i>	
Confirmation in Analog and Computer Simulation	December 2015
San Sebastian, Spain	
<i>Modeling and Representation conference</i>	
Reflections on the Relationship between Verification and Validation in Computer Simulation	October 2015
Stuttgart, Germany	
<i>Workshop on "The Art and Science of Simulation"</i>	
Reflections on the Relationship between Verification and Validation in Computer Simulation	July 2015
Hannover, Germany	
<i>Workshop on "How to Build Trust in Computer Simulations: Towards a General Epistemology of Validation."</i>	
Values and Uncertainties in the Predictions of Global Climate Models	February 2015
Pittsburgh Center for the Philosophy of Science, PA	
<i>Workshop on "Uncertainty in Climate Modeling"</i>	
The Adventures of Climate Science in the Sweet Land of Idle Arguments	February 2015
University of Pittsburgh Philosophy Department, PA	
<i>Workshop on "Climate Modeling and Public Policy"</i>	
• joint work with William Goodwin	

Confirmation via Analogue Simulation: What Dumb Holes could tell us about Gravity June, 2014

Geneva, Switzerland

Models and Experiments Workshop

- joint work with Radin Dardashti and Karim Thébault

How Anti-realists Could Learn to Stop Worrying and Love Unobservables March, 2014

University of Maryland

Department Colloquium

How Anti-realists Could Learn to Stop Worrying and Love Unobservables July, 2013

LMU, Munich, Germany

Reduction and Emergence in Science Workshop

Confirmation via Analogue Simulation: What Dumb Holes Could Tell us About Gravity July, 2013

LMU, Munich, Germany

Reduction and Emergence in Science Workshop

- with Radin Dardashti and Karim Thébault

Handshaking Your Way to the Top May 2013

Copenhagen, Denmark

Multiscale Modeling and Architecture. Center for Information Technology and Architecture

Fuzzy Modularity

Rice University, Houston, TX

April 2013

Cultures of Energy Spring Symposium

Climate Uncertainty and Ambiguity Aversion

UC, Berkeley

March 2013

LMPS Colloquium

Selected Recent Peer-Reviewed Presentations

Robustness Rebooted November 2018

Seattle Washington

Philosophy of Science Association

A Framework for Emergent Constraints in Climate Science July, 2018

Oxford, UK

British Society for the Philosophy of Science

Missing the Forest for the Fish: Uncertainty in Climate Modeling

November 2014

Chicago, IL

Philosophy of Science Association

- with William Goodwin

Confirmation via Analogue Simulation: What Dumb Holes Could Tell us About Gravity November 2014

Chicago, IL

Philosophy of Science Association

- with Radin Dardashti and Karim Thébault

Confirmation via Analogue Simulation: What Dumb Holes Could Tell us About Gravity	November 2014
Cambridge, UK	
<i>British Society for the Philosophy of Science</i>	
• with Radin Dardashti and Karim Thébault	
Deflationism, Pragmatism and Metaphysics	November 2012
Orlando, Florida	
<i>Florida Philosophical Association</i>	
• with with Rebecca Kukla	
Deflationism, Pragmatism and Metaphysics	March 2012
University of Pittsburgh, PA	
<i>New Science—New Risks: Center for Philosophy of Science</i>	
Levels of Shared Epistemic Norms	October, 2011
Athens, Greece	
<i>European Philosophy of Science Association</i>	
Laws and Chances in Statistical Mechanics	October, 2009
Amsterdam, Netherlands	
<i>European Philosophy of Science Association</i>	

Service

Profession

Contributions to Diversity

Mentor for PSA's Underrepresented Philosophy of Science Scholars Program

Profession

Grant review

NSF, National Humanities Center (USA); SSHRC (Canada); FWF (Austria); NWO (Netherlands); DFG (Germany); British Academy, Wellcome Trust (UK).

Profession

Journal referee

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; Royal Society Open Science

Profession

Manuscript review

Cambridge University Press; University of Chicago Press; Routledge; Prentice-Hall.

Profession

Program Committees

Philosophy of Science Association; Models and Simulations Conferences: (MS1, MS2, MS3, MS4, MS5, MS7); Inconsistency Robustness

Department

Committees

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).

University

Committees

Honors and Awards Committee; Instructor Promotions Committee; special grade grievance committee.