

# Eric B. Winsberg

[ew652@cam.ac.uk](mailto:ew652@cam.ac.uk)

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

Department of History and Philosophy of Science, University of Cambridge

Free School Lane, Cambridge, UK

[winsberg.net](http://winsberg.net)

---

## Employment

---

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

## Education

---

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

## Grants

---

<b>Complex modelling and political decision making: Addressing technical and moral problems</b> Winsberg, E. <i>The British Academy</i>	2022-2026: £890,000
<b>Involving transdisciplinary model users in policy-oriented simulation modelling</b> 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>	2025-2028: CA\$199,543

**Demographic factors in intended major and completed major: a comparison of philosophy and other disciplines** 2018: \$2,800

Winsberg, E., Schwitzgebel, E., Thompson, M.

American Philosophical Association

**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)]

Michael Smith Foundation for Health Research Convening and Collaborating Grant

## Fellowships

### British Academy Global Professor

History and Philosophy of Science, University of Cambridge

Cambridge, UK 2023-27

### Visiting Scholar

Institute for Practical Ethics, University of California

San Diego, CA, USA 2020

### Senior Fellow

Institute for Advanced Study, Leuphana University

Lüneburg, Germany 2016

### Fellow

Center for Advanced Study, MCMP, Ludwig Maximilians Universität

Munich, Germany 2013

### Visiting Scholar

Department of Philosophy, University of California

Berkeley, CA, USA 2013

### Fellow

Institute of Advanced Study, University of Durham

Durham, UK 2008

### Fellow

Center for Interdisciplinary Studies (ZiF), University of Bielefeld

Bielefeld, Germany 2006

## Books

### Philosophy and Climate Science

Cambridge University Press

2018

Eric Winsberg

- Reviewed in: *Notre Dame Philosophical Reviews*, *the British Journal for Philosophy of Science*, *Philosophy of Science*, *Journal for General Philosophy of Science*, and *Ethics, Policy and Environment*.
- CHOICE Honorable Mention award, Atmospheric Science Librarians International

### Science in the Age of Computer Simulation

University of Chicago Press

2010

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

**Cambridge Elements: Models in Science and Decision Making**

Cambridge University Press

2024

Eric Winsberg and Stephanie Harvard

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

Harvard University Press

2023

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**

Palgrave Macmillan

2018

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**

*Synthese* (ed. w/ Katherine Dormandy)

2025

**Special Issue on Climate Science**

*Journal for General Philosophy of Science*

2014

## Public Contributions

---

### Documentary Film Subject

**Moral Models: Crucial Decisions in the Age of Computer Simulation**

Salazar Film

2022

A

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**

Harvard, S., Winsberg, E.

2020

A

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., Broadbent, 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*

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

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

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

## Encyclopedia Entries

---

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

## Book Chapters

---

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

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

## Book Reviews

---

<b><i>Nature, the Artful Modeler</i></b>	2019
Nancy Cartwright <i>Notre Dame Philosophical Reviews</i>	
<b><i>Simulation and Similarity</i></b>	2013
Michael Weisberg <i>Notre Dame Philosophical Reviews</i>	
<b><i>Science without Laws: Model Systems, Cases, Exemplary Narratives</i></b>	2009
A. Creager & E. Lunbeck, eds <i>Metascience</i> , 18(2): 265-8	
<b><i>Model-Based Reasoning: Technology, Science, Values</i></b>	2003
L. Magnani & N. Nersessian, eds. <i>Philosophy of Science</i>	
<b><i>The Dappled World: Essays on the Boundaries of Science</i></b>	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, On-  
tario 2018

## Presentations (selected, recent)

---

**Representational Risk in Climate Models**

Stanford University

*Philosophy and the Environment Workshop*

December,  
2024

**Managing Vaues in Science: a return to decision theory**

University of Hannover

*SOCRATES workshop: Trust in Science*

June, 2024

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

KU, Lueven, Belgium

*Biennial Herman Roelants Lecture on Science*

May, 2024

**So Friggin' Likely: Gatekeeping during the Covid Pandemic**

University of Innsbruck, Austria

*Scientific Gatekeeping*

April, 2024

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

KU, Lueven, Belgium

*Biennial Herman Roelants Lecture on Science*

May, 2024

**Managing Vaues in Science: a return to decision theory**

University of Bristol

*Department Colloquium*

October, 2023

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

University of Cambridge

*Department Colloquium*

February, 2023

**Cost Benefit Models and their Alternatives**

University of Lund, Sweden

*Climate Economics Workshop*

September,  
2023

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

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

## Other Presentations

---

### Selected Invited Presentations since 2013

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

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

- 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** April 2013  
 Rice University, Houston, TX  
*Cultures of Energy Spring Symposium*
- Climate Uncertainty and Ambiguity Aversion** March 2013  
 UC, Berkeley  
*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

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

## 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.*