

# Eric B. Winsberg

PHILOSOPHY OF SCIENCE · ETHICS OF COMPUTER SIMULATION · PHILOSOPHY OF CLIMATE SCIENCE

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*h-index: 27 · i10-index:38 · Google Scholar Citations: 4467*

## Employment

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

## Education

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

## Grants

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<b>Complex Modelling and Political Decision Making: Addressing technical and moral problems</b> <i>The British Academy</i>	Winsberg, E. 2022: £890,000
<b>Demographic factors in intended major and completed major: a comparison of philosophy and other disciplines</b> <i>American Philosophical Association</i>	Winsberg, E., Schwitzgebel, E., Thompson, M. 2018: \$2,800
<b>How can health economic models better reflect patient and public values? Understanding stakeholder perspectives and research priorities through the Peer Models Network</b> <i>Michael Smith Foundation for Health Research Convening and Collaborating Grant</i>	Collaborator [PI: Mohsen Sadatsafavi, University of British Columbia (UBC)] 2021: CA\$15,000

## Fellowships

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

## Books

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<b>Philosophy and Climate Science</b> ERIC WINSBERG	Cambridge University Press 2018
<ul style="list-style-type: none"><li>Reviewed in: <i>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.</i></li><li>CHOICE Honorable Mention award, Atmospheric Science Librarians International</li></ul>	

## Science in the Age of Computer Simulation

University of Chicago Press

ERIC WINSBERG

2010

- 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

ERIC WINSBERG AND STEPHANIE HARVARD

2024

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

Harvard University Press

BARRY LOEWER, BRAD WESLAKE, AND ERIC WINSBERG, EDS.

2023

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

## Climate Modeling: Philosophical and Conceptual Issues

Palgrave Macmillan

ELISABETH S. LLOYD AND ERIC WINSBERG, EDS.

2018

- 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

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- 2025 **Special Issue on Gatekeeping in Science**, *Synthese* (ed. w/ Katherine Dormandy)
- 2014 **Special Issue on Climate Science**, *Journal for General Philosophy of Science*

## Public Contributions

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### 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

Winsberg, E.

*The Chronicle of Higher Education*

2023

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

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

*The Conversation*

2020

#### Climate and coronavirus: the science is not the same

Winsberg, E., Schliesser, E.

*The New Statesman*

2020

### OTHER MEDIA

#### Epidemiological Modeling, Policy, and Covid-19

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

*Meaningoflife.tv*

2020

**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)**

*University of Cambridge Public Seminar in History and Philosophy of Science*

*Winsberg, E., Broadbent, A.,  
Anderson, E.*

2020

## Journal Articles

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**Managing Values in Science: A return to decision theory**

*Kennedy Institute of Ethics Journal*

*Winsberg, E.*

2025

**Falsehoods Fly: a review essay**

*The Journal of Value Inquiry*

*Winsberg, E.*

2024

**‘Managing values’ in health economics modelling: philosophical and practical considerations**

*Social Science and Medicine*

*Harvard, S., Winsberg, E.*

2024

**Three Hidden Disagreements Over E-Cigarettes**

*Annals of the American Thoracic Society*

*Harvard, S., Winsberg, E., Duan, K.,  
Carlsten, C.*

2024

**Patient and Public Involvement in Health Economics Modelling Raises the Need for Normative Guidance**

*Pharmacoeconomics*

*Harvard, S., Winsberg, E.*

2023

**Who is responsible for global health inequalities after Covid-19?**

*Global Epidemiology*

*Winsberg, E.*

2022

**Purposes and Duties in Scientific Modeling**

*Journal of Epidemiology and Community Health*

*Harvard, S., Winsberg, E.*

2022

**Putting Races on the Ontological Map: a Close Look at Spencer’s ‘New Biologism’ of Race.**

*Biology & Philosophy*

*Winsberg, E.*

2022

**The Epistemic Risk in Representation**

*Kennedy Institute of Ethics Journal*

*Harvard, S., Winsberg, E.*

2022

**Causal Inference, Moral Intuition, and Modeling in a Pandemic**

*Philosophy of Medicine*

*Harvard, S., Winsberg, E.*

2021

**Don’t Stop Thinking About Tomorrow!**

*Pacific Philosophical Quarterly*

*Winsberg, E.*

2021

**Value Judgments in a COVID-19 Vaccination model: a Case Study in the Need for Public Involvement in Health-oriented Modelling**

*Social Science & Medicine*

*Harvard, S., Winsberg, E., Symons,  
J., Adibi, A.*

2021

- The Diversity of Philosophy Students and Faculty in the United States** *Schwitzgebel, E, Bright, L.K., Jennings, C.D., Thompson, M. and Winsberg, E.*  
*The Philosophers' Magazine* 2021
- This Paper Attacks a Strawman, and the Strawman Wins: A Reply to van Basshuyen and White** *Winsberg, E., Brennan, J, Surprenant, C.*  
*Kennedy Institute of Ethics Journal* 2021
- A Modest Defense of Geoengineering Research** *Winsberg, E.*  
*Philosophy and Technology* 2021
- How Government Leaders Violated Their Epistemic Duties during the SARS-CoV-2 Crisis** *Winsberg, E., Brennan, J, Surprenant, C.*  
*Kennedy Institute of Ethics Journal* 2020
- Severe Weather Event Attribution: Why Values Won't Go Away** *Winsberg, E., Oreskes N., Lloyd, E.*  
*Studies in History and Philosophy of Science* 2020
- Hawking Radiation and Analogue Experiments: a Bayesian Analysis** *Dardashti, R., Hartmann, S., Thébault, K., Winsberg, E.*  
*Studies in History & Philosophy of Modern Physics* 2019
- An Antidote for Hawkmoths: a Response to Recent Arguments Grounded in the Topology of Dynamical Systems** *Nabergall, L., Navas, A., Winsberg, E.*  
*European Journal for Philosophy of Science* 2018
- 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 the Viability of Climate Projections?** *Goodwin, W, Winsberg, E.*  
*Philosophy of Science* 2016
- Confirmation via Analogue Simulation: What Dumb Holes could tell us about Gravity** *Dardashti, R., Thébault, K., 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

<b>Values and Uncertainties in the Predictions of Global Climate Models</b> <i>Kennedy Institute of Ethics Journal</i> 22 (2), 111-137	<i>Winsberg, E.</i> 2012
<b>Holism, Entrenchment, and the Future of Climate Model Pluralism</b> <i>Studies in History and Philosophy of Modern Physics</i> 41 (3): 253-262	<i>Lenhard, J., and Winsberg, E.</i> 2012
<b>A Tale of Two Methods</b> <i>Synthese</i> 169 (3): 575-92	<i>Winsberg, E.</i> 2009
<b>Laws and Chances in Statistical Mechanics</b> <i>Studies in History and Philosophy of Modern Physics</i> 39 (4): 872-888	<i>Winsberg, E.</i> 2008
<b>Handshaking Your Way to the Top: Inconsistency and Falsification in Intertheoretic Reduction</b> <i>Philosophy of Science</i> 73: 582-594	<i>Winsberg, E.</i> 2006
<b>Models of Success vs. the Success of Models: Reliability without Truth</b> <i>Synthese</i> 152: 1-19	<i>Winsberg, E.</i> 2006
<b>Laws and Statistical Mechanics</b> <i>Philosophy of Science</i> 71: 707-718	<i>Winsberg, E.</i> 2004
<b>Can Conditionalizing on the “Past Hypothesis” Militate Against the Reversibility Objections?</b> <i>Philosophy of Science</i> 71: 489-504 winner of 2004 award for outstanding Philosophy of Science article by a recent Ph.D	<i>Winsberg, E.</i> 2004
<b>Quantum Life: Interaction, Entanglement, and Separation</b> <i>Journal of Philosophy</i> C: 80-97	<i>Winsberg, E. and Fine, A.</i> 2003
<b>Simulated Experiments: Methodology for a Virtual World</b> <i>Philosophy of Science</i> 70: 105-125	<i>Winsberg, E.</i> 2003
<b>Simulations, Models, and Theories: Complex Physical Systems and their Representations</b> <i>Philosophy of Science</i> 68: S442-S454	<i>Winsberg, E.</i> 2001
<b>Sanctioning Models: The Epistemology of Simulation</b> <i>Science in Context</i> 12 (3): 275-92	<i>Winsberg, E.</i> 1999
<b>Encyclopedia Entries</b>	
<b>Computer Simulation in Science</b> <i>Stanford Encyclopedia of Philosophy</i>	<i>Winsberg, E.</i> 2013
<b>Computer Simulation and the Philosophy of Science</b> <i>Philosophy Compass</i> , Vol. 4	<i>Winsberg, E.</i> 2009
<b>Simulation</b> <i>Oxford Companion to the History of Science</i>	<i>Winsberg, E.</i> 2002

## Book Chapters

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### Representational Risk

*Routledge Handbook on Science and Values*, EDITED BY KEVIN ELLIOT AND TED RICHARDS, ROUTLEDGE

Winsberg, E. and Harvard, S.

2017

### The Metaphysics of PROB and PH

*Time's arrow and the Probability Structure of the World*, EDITED BY LOEWER, B., WINSBERG, E. AND WESLAKE, B., HARVARD UNIVERSITY PRESS

Winsberg, E.

2023

### Uncertainty Quantification in Climate Modelling

*Philosophical and Conceptual Issues in Climate Modeling*, EDITED BY WINSBERG, E. AND LLOYD, E., PALGRAVE MACMILLAN

Winsberg, E.

2018

### Success and Scientific Realism: Considerations from the Philosophy of Simulation

*Routledge Handbook on Scientific Realism*, EDITED BY JUHA SAATSI, ROUTLEDGE

Winsberg, E. and Mirza, A.

2017

### Making an Author in Radically Collaborative Research

*The Collective Dimensions of Science*, EDITED BY WEISBERG, MAYO-WILSON AND BOYER, OXFORD UNIVERSITY PRESS

Huebner, B., Kukla, R. and Winsberg, E.

2017

### Deflationism, Pragmatism, and Metaphysics

*Aspects of Anti-Representationalism: Truth, Expression, Normativity, and Naturalism*, EDITED BY STEVEN GROSS, NICHOLAS TEBBEN, AND MICHAEL WILLIAMS, OXFORD UNIVERSITY PRESS

Kukla, R., and Winsberg, E.

2015

### A Function for Fictions: Expanding the Scope of Science

*Fictions in Science: Philosophical Essays on Modeling and Idealization* EDITED BY SUAREZ, M., ROUTLEDGE

Winsberg, E.

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

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### *Nature, the Artful Modeler*

*Notre Dame Philosophical Reviews*

Nancy Cartwright

2019

### *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*

*Journal of Philosophy*

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

Nancy Cartwright

2002

### *Wittgenstein, Finitism and the Foundations of Mathematics*

*Philosophy of Science*

Mathieu Marion

2000

## Summer Schools, etc. Taught

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- 2024 **Scientific Models and Decision Making**, Davidson University *North Carolina*
- 2022 **Climate Science: Historical, Philosophical and Sociological Issues**, University of Vienna *Vienna, Austria*
- 2018 **Philosophy of Cosmology**, Western University and University of California, Irvine *Gonderich, Ontario*

## Presentations (selected, recent)

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- Representational Risk in Climate Models** *Stanford University*  
PHILOSOPHY AND THE ENVIRONMENT WORKSHOP *December, 2024*
- Managing Values 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 Values 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*
- A Modest Defense of Geoengineering Research: a Case Study in the Cost of Learning** *Utrecht, Netherlands*  
THE INSTITUTE FOR MARINE AND ATMOSPHERIC RESEARCH UTRECHT (IMAU) *December, 2021*
- Value Judgments in Modeling and Causal Inference for Decision-Making** *University of British Columbia, BC, Canada*  
FACULTY OF PHARMACEUTICAL SCIENCES *October, 2021*
- Value Judgments in a Covid-19 Vaccination Model** *University of Guelph, Ontario, CA*  
PHILOSOPHY DEPARTMENT COLLOQUIUM *October, 2021*
- The Joint Strategy in Simulation Modeling: Machine Learning in Parameterization** *Max Planck Institute for the History of Science, Berlin, Germany*  
APPROXIMATION METHODS: HISTORICAL AND PHILOSOPHICAL PERSPECTIVES *June, 2021*
- Severe Weather Event Attribution: Why Values Won't Go Away** *Leibniz University, Germany*  
10TH ANNIVERSARY CONFERENCE OF THE INSTITUTE OF PHILOSOPHY AT THE LEIBNIZ UNIVERSITY *June, 2021*

## **Causal Inference in Non-linear Systems**

UNDERSTANDING THE NATURE OF INFERENCE: CAUSATION AND CORRELATION

*Franke Program in Science and the  
Humanities, Yale University*

*June, 2021*

## **Covid Modeling: How it Started, Where We are Now.**

GEORGE MASON PANDEMIC MODELING FORUM

*George Mason University*

*March, 2021*

## **Simulations and Dark Matter**

AMERICAN PHYSICAL SOCIETY

*Denver*

*March, 2021*

## **What is a Cause and Why does it always Precede its Effect? Reply to Carlo Rovelli**

UNDERSTANDING THE NATURE OF INFERENCE: CAUSATION AND CORRELATION

*Franke Program in Science and the  
Humanities, Yale University*

*February, 2021*

## **Models, Values, and Precaution**

AMERICAN PHILOSOPHICAL ASSOCIATION, CENTRAL DIVISION MEETING

*Online*

*February, 2021*

## **Philosophy, Science and Pandemics: Why the Models Failed Us**

BARCELONA INSTITUTE FOR ANALYTIC PHILOPHY

*Barcelona, Spain*

*November, 2020*

## **Why Study Solar Radiation Management? A Case Study in the Cost of Acquiring New Evidence**

PHILOSOPHY OF SCIENCE GROUP IN INDIA

*National Institute of Advanced  
Studies, Bengaluru*

*September, 2020*

## **A Modest Defense of Geoengineering Research**

CLIMATE TECHNOLOGIES WORKSHOP

*University of California, San Diego*

*April, 2020*

## **Simulating Epidemics: Why the Models Failed Us**

WINTER SIMULATION CONFERENCE

*Orlando, FL*

*December, 2020*

## **Evidence in Simulation**

SEVEN PINES CONFERENCE

*Stillwater, Minnesota*

*June, 2018*

## **Robustness Rebooted**

PHILOSOPHY OF SCIENCE ASSOCIATION

*Seattle Washington*

*November 2018*

## **A Framework for Emergent Constraints in Climate Science**

BRITISH SOCIETY FOR THE PHILOSOPHY OF SCIENCE

*Oxford, UK*

*July, 2018*

## **Simulation in Cosmology**

AMERICAN PHILOSOPHICAL ASSOCIATION PACIFIC DIVISION MEETING

- Invited symposium on physics and cosmology in practice

*Washington, DC*

*April, 2017*

## **'Testing this Extraordinary Scenario': Simulation and Models of Big Bang Cosmology**

METHODOLOGY AND EPISTEMOLOGY IN COSMOLOGY CONFERENCE

- Plenary talk

*Irvine, California*

*February, 2017*



## Confirmation in Analog and Computer Simulation

AMERICAN PHILOSOPHICAL ASSOCIATION EASTERN DIVISION MEETING

- Invited symposium on computer simulation

Washington, DC

January, 2016

## Threats to Model Confidence: A Cautionary Tale

DESIGN MODELING SYMPOSIUM

- Keynote Address

Copenhagen, Denmark

October, 2015

## How Important is the Hawkmoth Effect for Climate Science?

KNOWLEDGE AND MODELS IN CLIMATE SCIENCE

- Plenary talk

Rotman Institute, London, ON, CA

October, 2014

## Author Meets Critics: Science in the Age of Computer Simulation

AMERICAN PHILOSOPHICAL ASSOCIATION EASTERN DIVISION MEETING

- Critics: Isabelle Peschard, Wendy Parker

Washington, DC

December 2011

## Verification and Validation

SCIENTIFIC MODELING AT SFU: THEMATIC YEAR 2011

- Keynote Address

IRMACS, Burnaby, BC, Canada

April, 2011

## Service

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### Profession

MENTOR FOR PSA'S UNDERREPRESENTED PHILOSOPHY OF SCIENCE SCHOLARS PROGRAM

Contributions to Diversity

### Profession

NSF, NATIONAL HUMANITIES CENTER (USA); SSHRC (CANADA); FWF (AUSTRIA); NWO (NETHERLANDS); DFG (GERMANY); BRITISH ACADEMY, WELLCOME TRUST (UK).

Grant review

### Profession

PHILOSOPHY OF SCIENCE; BRITISH JOURNAL FOR THE PHILOSOPHY OF SCIENCE; PHILOSOPHER'S IMPRINT; ERKENNTNIS; SYNTHESIS; 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

### 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).

Committees

### University

HONORS AND AWARDS COMMITTEE; INSTRUCTOR PROMOTIONS COMMITTEE; SPECIAL GRADE GRIEVANCE COMMITTEE.

Committees