Eric B. Winsberg

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

Department of Philosophy; University of South Florida 4202, East Fowler Avenue, FAO226; Tampa, Florida 33620-7926

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h-index: 24 · i10-index:31 · Google Scholar Citations: 3561

Employment _____ British Academy Global Professor of History and Philosophy of Science, University of Cambridge, UK 2014 - **Professor of Philosophy**, University of South Florida Tampa, FL 2006 - Associate Professor of Philosophy, University of South Florida Tampa, FL 2001 - Assistant Professor of Philosophy, University of South Florida Tampa, FL 1999 - **Postdoctoral Fellow**, Northwestern University Evanston, IL Education ____ Ph.D. in History and Philosophy of Science, Indiana University Bloomington, IN B.A., History, Philosophy and Social Studies of Science and Medicine, University of Chicago Chicago, IL Grants ____ Complex Modelling and Political Decision Making: Addressing technical and Winsberg, E. moral problems The British Academy 2022: £890,000 Demographic factors in intended major and completed major: a comparison of Winsberg, E., Schwitzgebel, E., philosophy and other disciplines Thompson, M. American Philosophical Association 2018: \$2,800 How can health economic models better reflect patient and public values? Collaborator [PI: Mohsen Understanding stakeholder perspectives and research priorities through the Peer Sadatsafavi, University of British **Models Network** Columbia (UBC)] Michael Smith Foundation for Health Research Convening and Collaborating Grant 2021:CA\$15,000

Fellowships _____

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

Books _____

Philosophy and Climate Science

Cambridge University Press

ERIC WINSBERG 20.

- 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

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

In Press

ERIC WINSBERG AND STEPHANIE HARVARD

Climate Modeling: Philosophical and Conceptual Issues

Palgrave Macmillan

ELISABETH S. LLOYD AND ERIC WINSBERG, EDS.

201

• 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

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.

Edited Journals

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

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

Winsberg, E.

The Chronicle of Higher Education

2023

2020

2020

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

The Conversation

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

Climate and coronavirus: the science is not the same

The New Statesman

Winsberg, E., Schliesser, E.

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)

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

2020

Journal Articles

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

Harvard, S., Winsberg, E.

Pharmacoeconomics

2023

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

University of Cambridge Public Seminar in History and Philosophy of Science

Winsberg, E.

Global Epidemiology

2022

Purposes and Duties in Scientific Modeling

Harvard, S., Winsberg, E.

Journal of Epidemiology and Community Health

2022

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

Winsberg, E.

Biology & Philosophy

2022

The Epistemic Risk in Representation

Harvard, S., Winsberg, E.

Kennedy Institute of Ethics Journal

2022

Causal Inference, Moral Intuition, and Modeling in a Pandemic

Harvard, S., Winsberg, E.

Philosophy of Medicine

2021

Don't Stop Thinking About Tomorrow!

Winsberg, E.

Pacific Philosophical Quarterly

2021

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

Harvard, S., Winsberg, E., Symons,

J., Adibi, A.

Social Science & Medicine

The Philosophers' Magazine

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.

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

Surprenant, C.

Winsberg, E., Brennan, J,

CHISIS

2020

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Kennedy Institute of Ethics Journal

Studies in History and Philosophy of Science

Winsberg, E., Oreskes N., Lloyd, E.

2020

Hawking Radiation and Analogue Experiments: a Bayesian Analysis

Studies in History & Philosophy of Modern Physics

Dardashti, R., Hartmann, S., Thébault, K., Winsberg, E.

201

An Antidote for Hawkmoths: a Response to Recent Arguments Grounded in the Topology of Dynamical Systems

European Journal for Philosophy of Science

Nabergall, L., Navas, A., Winsberg, E.

2018

2018

What does Robustness Teach us in Climate Science: a Re-appraisal

Sythese

Winsberg, E.

Values and Evidence: How Models Make a Difference

European Journal for Philosophy of Science

Parker, W., Winsberg, E.

2017

The Adventures of Climate Science in the Sweet Land of Idle Dreams

Studies in History and Philosophy of Modern Physics

Winsberg, E., Goodwin, W.

2016

2016

Missing the Forest for the Fish: How Much does the 'Hawkmoth effect' Threaten the Viability of Climate Projections?

Philosophy of Science

Goodwin. W, Winsberg, E.

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

British Journal for the Philosophy of Science

Dardashti, R., Thébault, K.,

Winsberg, E.

2015

Accountability and Values in Radically Collaborative Research

Studies in History and Philosophy of Science

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

2014

Bumps on the Road to Here (from Eternity)

Entropy 14(3), 390-406

Winsberg, E.

Values and Uncertainties in the Predictions of Global Climate Models

Kennedy Institute of Ethics Journal 22 (2), 111-137

Winsberg, E.

2012

Holism, Entrenchment, and the Future of Climate Model Pluralism

Studies in History and Philosophy of Modern Physics 41 (3): 253-262

Lenhard, J., and Winsberg, E.

2012

2009

A Tale of Two Methods

Synthese 169 (3): 575-92

Winsberg, E.

Winsberg, E.

Laws and Chances in Statistical Mechanics

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

Philosophy of Science 73: 582-594

Winsberg, E.

Models of Success vs. the Success of Models: Reliability without Truth

Synthese 152: 1-19

Winsberg, E.

2006

2006

Laws and Statistical Mechanics Winsberg, E. Philosophy of Science 71: 707-718 2004 Can Conditionalizing on the "Past Hypothesis" Militate Against the Reversibility Winsberg, E. **Objections?** 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 Simulated Experiments: Methodology for a Virtual World Winsberg, E. Philosophy of Science 70: 105-125 2003 Simulations, Models, and Theories: Complex Physical Systems and their Winsberg, E. Representations Philosophy of Science 68: S442-S454 2001 **Sanctioning Models: The Epistemology of Simulation** Winsberg, E. Science in Context 12 (3): 275-92 1999 **Encyclopedia Entries** _____ **Computer Simulation in Science** Winsberg, E. Stanford Encyclopedia of Philosophy 2013 Computer Simulation and the Philosophy of Science Winsberg, E. Philosophy Compass, Vol 4 2009 **Simulation** Winsberg, E. Oxford Companion to the History of Science 2002 **Book Chapters** _____ The Metaphysics of PROB and PH Winsberg, E. Time's arrow and the Probability Structure of the World, edited by Loewer, B., Winsberg, E. and Weslake, B., In Press HARVARD UNIVERSITY PRESS **Uncertainty Quantification in Climate Modelling** Winsberg, E. Philosophical and Conceptual Issues in Climate Modeling, Edited by Winsberg, E. and Lloyd, E., Palgrave 2018 MACMILLAN Success and Scientific Realism: Considerations from the Philosophy of Winsberg, E. and Mirza, A. Routledge Handbook on Scientific Realism, Edited by Juha Saatsi, Routledge 2017 Huebner, B., Kukla, R. and Winsberg, **Making an Author in Radically Collaborative Research** The Collective Dimensions of Science, Edited by Weisberg, Mayo-Wilson and Boyer, Oxford University

PRESS

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

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.

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.

Kukla, R., and Winsberg, E.

2009

Book Reviews

Nature, the Artful Modeler

Nancy Cartwright

Notre Dame Philosophical Reviews

2019

Simulation and Similarity

Michael Weisberg

Notre Dame Philosophical Reviews

201

Science without Laws: Model Systems, Cases, Exemplary Narratives

A. Creager & E. Lunbeck, eds

Metascience, 18(2): 265-8 2009

Model-Based Reasoning: Technology, Science, Values

L. Magnani & N. Nersessian,eds.

Philosophy of Science 2003

The Dappled World: Essays on the Boundaries of Science

Nancy Cartwright

Journal of Philosophy

2002

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

Wittgenstein, Finitism and the Foundations of Mathematics

Mathieu Marion

Philosophy of Science

2000

Summer Schools Taught ____

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

Invited keynotes, plenaries, etc. _

Simlulating Epidemics: Why the Models Failed Us

Orlando, FL

December, 2020

Evidence in Simulation Stillwater, Minnesota

June, 2018

Simulation in Cosmology

SEVEN PINES CONFERENCE

WINTER SIMULATION CONFERENCE

Washington, DC

AMERICAN PHILOSOPHICAL ASSOCIATION PACIFIC DIVISION MEETING

April, 2017

• Invited symposium on physics and cosmology in practice

METHODOLOGY AND EPISTEMOLOGY IN COSMOLOGY CONFERENCE

Irvine, California

Cosmology

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

February, 2017

· Plenary talk

Confirmation in Analog and Computer Simulation

AMERICAN PHILOSOPHICAL ASSOCIATION EASTERN DIVISION MEETING

• Invited symposium on computer simulation

Threats to Model Confidence: A Cautionary Tale

DESIGN MODELING SYMPOSIUM

Keynote Address

How Important is the Hawkmoth Effect for Climate Science?

KNOWLEDGE AND MODELS IN CLIMATE SCIENCE

• Plenary talk

Values and Uncertainties in Climate Modeling

VALUES AND NORMS IN MODELING

• Keynote Address

Author Meets Critics: Science in the Age of Computer Simulation

AMERICAN PHILOSOPHICAL ASSOCIATION EASTERN DIVISION MEETING

• Critics: Isabelle Peschard, Wendy Parker

Verification and Validation

SCIENTIFIC MODELING AT SFU: THEMATIC YEAR 2011

Keynote Address

Washington, DC

January, 2016

Copenhagen, Denmark

Rotman Institute, London, ON, CA

October, 2014

October, 2015

Eindhoven, Netherlands

June, 2012

Other Presentations

SELECTED INVITED PRESENTATIONS SINCE 2013

A Modest Defense of Geoengineering Research: a Case Study in the Cost of

THE INSTITUTE FOR MARINE AND ATMOSPHERIC RESEARCH UTRECHT (IMAU)

Value Judgments in Modeling and Causal Inference for Decision-Making

FACULTY OF PHARMACEUTICAL SCIENCES

Value Judgments in a Covid-19 Vaccination Model

PHILOSOPHY DEPARTMENT COLLOQUIUM

The Joint Strategy in Simulation Modeling: Machine Learning in Parameterization

APPROXIMATION METHODS: HISTORICAL AND PHILOSOPHICAL PERSPECTIVES

Severe Weather Event Attribution: Why Values Won't Go Away

10TH ANNIVERSARY CONFERENCE OF THE INSTITUTE OF PHILOSOPHY AT THE LEIBNIZ UNIVERSITY

Causal Inference in Non-linear Systems

Understanding the Nature of Inference: Causation and Correlation

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

GEORGE MASON PANDEMIC MODELING FORUM

Washington, DC

December 2011

IRMACS, Burnaby, BC, Canada

April, 2011

Utrecht, Netherlands

December, 2021

University of British Columbia, BC,

October, 2021

University of Guelph, Ontario, CA October, 2021

Max Planck Institute for the History of Science, Berlin, Germany

June, 2021

Leibniz University, Germany

June, 2021

Franke Program in Science and the Humanities, Yale University

June, 2021

George Mason University

March, 2021

Simulations and Dark Matter

Denver

AMERICAN PHYSICAL SOCIETY 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

Understanding the Nature of Inference: Causation and Correlation

February, 2021

Models, Values, and Precaution

Online

AMERICAN PHILOSOPHICAL ASSOCIATION, CENTRAL DIVISION MEETING

February, 2021

Philosophy, Science and Pandemics: Why the Models Failed Us

Barcelona, Spain

BARCELONA INSTITUTE FOR ANALYTIC PHILOPHY

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

Severe Weather Event Attribution: Why Values Won't Go Away

INSTITUTE COLLOQUIUM, INSTITUTE FOR PRACTICAL ETHICS

University of California, San Diego

March, 2020

A Modest Defense of Geoengineering Research

DEPARTMENT COLLOQUIUMM

Dalhousie University,NS, Canada

July, 2019

Severe Weather Event Attribution: Why Values Won't Go Away

DEPARTMENT COLLOQUIUMM

Boston University, MA

April, 2019

Philosophy and Climate Science

DEPARTMENT COLLOQUIUMM

St Edwards University, TX

January, 2019

Simulation and Experiment

WORKSHOP ON ANALOG EXPERIMENTS

University of Bristol, UK

July, 2018

Values and Event Attribution

PHILOSOPHY AND POLITICS OF CLIMATE CHANGE

University of Chicago April, 2018

Model Skill Rome, Italy

WILL SCIENCE REMAIN HUMAN March, 2018

Probability in Weather and Climate

Ruhr-Universität Bochum

June 2016

April 2016

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Confirmation in Analog and Computer Simulation

Confirmation in Analog and Computer Simulation

DEPARTMENT COLLOQUIUM

DEPARTMENT COLLOQUIUM

Leibniz Universität Hannover

MECS, Universität Leuphana January 2016

Interferences Events

AUGUST 13, 2023 ERIC B. WINSBERG · CV

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

WORKSHOP ON "THE ART AND SCIENCE OF SIMULATION"

Stuttgart, Germany

October 2015

Reflections on the Relationship between Verification and Validation in Computer Simulation

WORKSHOP ON "HOW TO BUILD TRUST IN COMPUTER SIMULATIONS: TOWARDS A GENERAL EPISTEMOLOGY OF VALIDATION."

Hannover, Germany

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

July 2015

The Adventures of Climate Science in the Sweet Land of Idle Arguments

WORKSHOP ON "CLIMATE MODELING AND PUBLIC POLICY"

• joint work with William Goodwin

University of Pittsburgh Philosophy

Department, PA

February 2015

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

MODELS AND EXPERIMENTS WORKSHOP

• joint work with Radin Dardashti and Karim Thébault

Geneva, Switzerland

June, 2014

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

DEPARTMENT COLLOQUIUM

University of Maryland

March, 2014

July, 2013

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

REDUCTION AND EMERGENCE IN SCIENCE WORKSHOP

LMU, Munich, Germany

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

REDUCTION AND EMERGENCE IN SCIENCE WORKSHOP

• with Radin Dardashti and Karim Thébault

LMU, Munich, Germany

July, 2013

Handshaking Your Way to the Top

CULTURES OF ENERGY SPRING SYMPOSIUM

MULTISCALE MODELING AND ARCHITECTURE. CENTER FOR INFORMATION TECHNOLOGY AND ARCHITECHTURE

Copenhagen, Denmark

Fuzzy Modularity Rice University, Houston, TX

April 2013

May 2013

Climate Uncertainty and Ambiguity Aversion

LMPS COLLOQUIUM

UC, Berkeley

March 2013

SELECTED RECENT PEER-REVIEWED PRESENTATIONS

 Robustness Rebooted
 Seattle Washington

 PHILOSOPHY OF SCIENCE ASSOCIATION
 November 2018

A Framework for Emergent Constraints in Climate Science

BRITISH SOCIETY FOR THE PHILOSOPHY OF SCIENCE

Oxford, UK

July, 2018

Missing the Forest for the Fish: Uncertainty in Climate Modeling

PHILOSOPHY OF SCIENCE ASSOCIATION

with William Goodwin

Chicago, IL November 2014

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

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

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

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

Amsterdam, Netherlands

October, 2009

Grant review

Service .

Profession

Contributions to Diversity

MENTOR FOR PSA'S UNDERREPRESENTED PHILOSOPHY OF SCIENCE SCHOLARS PROGRAM

Profession

NSF; NATIONAL HUMANITIES CENTER; SSHRC (CANADA); FWF (AUSTRIA); NWO (NETHERLANDS); DFG (GERMANY); 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 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

Profession Manuscript review

CAMBRIDGE UNIVERSITY PRESS; UNIVERSITY OF CHICAGO PRESS; ROUTLEDGE; PRENTICE-HALL.

ProfessionProgram 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.

Languages _____

Fluent

ENGLISH; FRENCH

Intermediate

GERMAN