

Phillip Hintikka Kieval (he/him/his)

Department of History and Philosophy of Science
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Specialization

Philosophy of Science · Philosophy of Machine Learning · Philosophy of Neuroscience · AI Ethics

Competence

American Pragmatism · Feminist Philosophy · Political Philosophy · Logic

Education

UNIVERSITY OF CAMBRIDGE

PhD in History and Philosophy of Science 2021-present
Supervisor: Marta Halina Advisor: Hasok Chang

UNIVERSITY OF HOUSTON

MA in Philosophy 2019-2021
BA in Philosophy 2015-2019
Magna Cum Laude with University Honors and Honors in Major

Work Experience

Student Fellow 2022-present
Leverhulme Center for the Future of Intelligence, University of Cambridge

Awards & Fellowships

Best Student Paper Award, Issues in XAI4, TU Delft, Delft, Netherlands 2022
Gates Cambridge Scholarship, Gates Trust / [Link](#) 2021-present
Graduate Teaching Assistantship, Department of Philosophy, University of Houston 2019-2021
Mellon Research Scholars Fellowship, Andrew W. Mellon Foundation / [Link](#) 2018-2019

Publications

2. Kieval P. H. (2022b). Permission to believe is not permission to believe at will. *Synthese*, 200(347): 1-12

1. Kieval, P. H. (2022a). Mapping representational mechanisms with deep neural networks. *Synthese*, 200(196): 1-25

Talks & Presentations

REFEREED

9. "Automated Exploration, Understanding, and Semantic Opacity," 13 November 2022
Philosophy of Science Association 2022
Pittsburgh, PA
8. "Biased-by-design: why algorithms are necessarily value-laden" 19 October 2022
Graduate Student Workshop on Philosophy of Machine Learning
Max Planck Institute for Intelligent Systems in Tübingen
7. "Getting Real about Neural Data Science" 11 September 2022
Philosophy of Cognitive Neuroscience: Content, Self, and Cognitive Ontology
37th Annual Boulder Conference on the History and Philosophy of Science
University of Colorado Boulder
6. "Biased-by-design: why algorithms are necessarily value-laden" 3 June 2022
Ethical Issues in AI and Computing Conference Embedded EthiCS @ Harvard
in partnership with Social & Ethical Responsibilities of Computing at MIT,
Harvard University
5. "Unsupervised Discoveries, Understanding, and Semantic Opacity," 25 May 2022
Issues in XAI #4 - Explanatory AI: Between ethics and epistemology
TU Delft
4. "Unsupervised Discoveries, Understanding, and Semantic Opacity," 13 May 2022
Rotman Graduate Student Conference 2022: Models and Idealization
Rotman Institute of Philosophy
3. "Unsupervised Discoveries, Understanding, and Semantic Opacity," 23 April 2022
4th Annual Scientific Understanding and Representation (SURE) Workshop,
Fordham University
2. "Unsupervised Discoveries, Understanding, and Semantic Opacity," 16 December 2021
Philosophy in Informatics VI
1. "Artificial Achievements," 2 October 2021
Rice-UH Graduate Conference, Rice University

INVITED

3. "Getting Real about Neural Data Science" 22 June 2022
LCFI Kinds of Intelligence Work in Progress Retreat
Department of History and Philosophy of science, University of Cambridge

2. "Biased-by-design: why algorithms are necessarily value-laden" 7 May 2022
Gates Day of Research, University of Cambridge

1. "Unsupervised Discoveries and Semantic Opacity in Data-driven Neuroscience," 2 February 2022
Poldrack Lab, Stanford University

Teaching

UNIVERSITY OF CAMBRIDGE

SUPERVISOR

NST HPS Part IB *Philosophy of Science* 2022-2023
HPS PART II, PAPER 6 *Ethics and Politics of Technology* Lent 2022

UNIVERSITY OF HOUSTON

TEACHING ASSISTANT

PHIL132I *Logic I* Spring 2021
PHIL130I *Introduction to Philosophy* Fall 2020
PHIL132I *Logic I* Spring 2020
PHIL132I *Logic I* Fall 2019

GRADING ASSISTANT

PHIL130I *Introduction to Philosophy* Summer 2020
PHIL136I *Philosophy and the Arts* Summer 2020

Professional Activities

DIVERSITY AND INCLUSION

Wellness, Inclusion, Diversity, and Equity (WIDE) Committee Member, 2022-present
Leverhulme Center for the Future of Intelligence, University of Cambridge

Organizing Committee, Cambridge University Minorities and Philosophy (MAP) 2021-present

BIPOC Philosophical Film Series with UH Minorities and Philosophy (MAP) April 2021
funded by The Media and the Moving Image Initiative (MMI)

Co-Founder, University of Houston Chapter of Minorities and Philosophy (MAP) 2020

COMPASS: Undergraduate Philosophy Workshop, March 2018
University of Texas at Austin Chapter of Minorities and Philosophy (MAP)

Preventing Genocide: Global and Local Workshop and Teach-in (*invited*),
Hobby School of Public Affairs' Civitas Program and UH Human Rights Series,
The Honors College at the University of Houston October 2017

Displaced Populations: Statelessness and Refugee Crises, UH Human Rights Series,
The Honors College at the University of Houston April 2017

TUTORING AND MENTORSHIP

Learning for Purpose Co-director, Gates Cambridge Scholars Council 2021-2022

LAUNCH Tutor for Logic I and Logic II,
Undergraduate Student Success Center at the University of Houston 2018-2019

LAUNCH Tutor for Writing and Rhetoric,
Undergraduate Student Success Center at the University of Houston 2018-2019

Graduate Coursework

UNIVERSITY OF HOUSTON

Logic and Ontology, <i>James Garson</i>	Spring 2021
Luck and Achievement, <i>Christy Mag Uidhir</i>	Spring 2021
The Problem of Evil, <i>Luis Oliveira</i>	Spring 2021
Philosophy of Science*, <i>Josh Weisberg</i>	Spring 2021
The Meta-problem of Consciousness, <i>Josh Weisberg</i>	Fall 2020
The Methods of Ethics, <i>David Phillips</i>	Fall 2020
Deep Learning, <i>Cameron Buckner</i>	Spring 2020
Temporal Asymmetries, <i>Yael Lowenstein</i>	Spring 2020
Inference and Reference, <i>James Garson</i>	Fall 2019
Doxastic Agency, <i>Luis Oliveira</i>	Fall 2019
Philosophy of Film, <i>Christy Mag Uidhir</i>	Fall 2019

RICE UNIVERSITY (VISITING STUDENT)

Origins of Mind, <i>Alex Morgan</i>	Fall 2020
Personal Relationship Goods, <i>Elizabeth Brake</i>	Spring 2020

* = Course audited

References

Marta Halina

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Department of Philosophy
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Hasok Chang

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Luis Oliveira

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