

# Matthew Coates

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Updated 2024/10/28

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## Education

**Ph.D. Candidate - Philosophy Ph.D. Candidate - Philosophy (Logic and Philosophy of Science)** 2019 - 2025 [Expected]

*University of California, Irvine (UCI)*

Graduate Emphasis in Biology and the Behavioral Sciences

Advisor: Cailin O'Connor

Dissertation: "Network Epistemology and Scientific Dissent"

**MSc - Philosophy of Science** 2017 - 2018

*The London School of Economics*

**BSc (Hons) - Mathematics** 2014 - 2017

*Queen Mary, University of London*

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## Research Areas

### AOS

Philosophy of Science, Philosophy of Biology, Epistemology (Social, Formal), Game Theory (esp. Evolutionary Game Theory)

### AOC

Philosophy of Probability, History of Analytic Philosophy, Values in Science

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## Publications

### Published

**Coates, Matthew.** "Does it Harm Science to Suppress Dissenting Evidence?" forthcoming in *Philosophy of Science*

**Coates, Matthew.** "Keynes, Wittgenstein, and Probability in the Tractatus" forthcoming in *HOPOS*

Sherlock, Emma, **Matthew Coates** and Csaba Csuzdi. "Modelling of climatic tolerances of three earthworm species; *Satchellius mammalis*, *Lumbricus friendi* and *Lumbricus festivus* using Maximum Entropy Modeling". *Opuscula Zoologica*. 53(1): 51–65. 2022

### In Progress

Coates, Matthew. "Multilayer Networks and the Evolution of Risky Cooperation" in progress

Coates, Matthew. "Does Managing Industrial Dissent Help Public Belief?" in progress

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## Talks and Presentations

### Refereed

"Multilayer Networks and the Evolution of Risky Cooperation", The 29th Meeting of the Philosophy of Science Association (PSA). New Orleans, LA. November 2024. [Forthcoming]

“Multilayer Networks and the Evolution of Risky Cooperation”, The 8th Meeting of the Philosophy, Politics and Economics Society (PPE). New Orleans, LA. November 2024. [Forthcoming]

“Does it Harm Science to Suppress Dissenting Evidence?”, The 8th Meeting of the Philosophy, Politics and Economics Society (PPE). New Orleans, LA. November 2024. [Forthcoming]

“Multilayer Networks and the Evolution of Risky Cooperation”, Philosophical Engagement with Biology and Medicine Workshop, Bielefeld University, Bielefeld, Germany. September 2024

“Multilayer Networks and the Evolution of Risky Cooperation”, Philosophy of Biology at the Mountains (POBAM) 2024. University of Utah, Salt Lake City, UT. July 2024

“Does it Harm Science to Suppress Dissenting Evidence?”, Sixth University of Kent Graduate Colloquium. Kent, United Kingdom. June 2024

“Does it Harm Science to Suppress Dissenting Evidence?”, Workshop on Computational Models in Social Epistemology. Bochum, Germany. December 2023

“Modeling Hiding Dissent in Journal Publications”, 17th International Congress on Logic, Methodology and Philosophy of Science and Technology (CLMPST). Buenos Aires, Argentina. July 2023

“Modeling Hiding Dissent in Journal Publications”. Poster at the 28th Meeting of the Philosophy of Science Association (PSA). Pittsburgh, PA. November 2022.

“Modeling Scientific Advisory Groups”. Poster at the Formal Epistemology Workshop (FEW). Irvine, CA. May 2022.

“The Unconscious Conventionalism of the Geometry of Space Time”, 6th LSE-Bayreuth Student Philosophy Conference, University of Bayreuth, Germany. May 2018

### **Invited**

“Modeling Hiding Dissent in Journal Publications”, University of California Science, Values, and Policy Workshop, June 2023

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### **Awards and Fellowships**

LPS Graduate Service Award (UC Irvine, 2024, \$150)

LPS Graduate Service Award (UC Irvine, 2023, \$150)

Social Science Merit Fellowship, School of Social Science (UC Irvine, 2019-2025)

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### **Professional Service**

**Organizer**, Symposium on “Modeling the Social Structure of Science,” PPE 2024, New Orleans, November 2024.

**Coordinator**, Work-in-Progress (WiP) talk series, UC Irvine LPS, 2023-2024.

**Coordinator**, Kent Johnson Memorial Fund Teaching Workshop: Syllabus Design, UC Irvine, 2023-2024.

**Reviewer**, UC Irvine Graduate Philosophy Conference, 2023-2024

**Judge**, Undergraduate Research Symposium, UC Irvine, April-May 2024

**Session Chair**, Logic and Philosophy of Science Colloquium Series, UC Irvine, October 2023

**Judge**, Undergraduate Research Symposium Poster Session, UC Irvine, May 2023.

**Co-organizer**, Conference on “Values, Fairness, and Machine Learning,” UC Irvine, June 2022.

**Organizer**, Talk by John Worrall, The London School of Economics and Political Science, November 2017.

**Volunteer Curation and Research**, Freelifing and Parasitic Worm Collections, Natural History Museum London, 2017-2019.

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## Teaching

### Instructor

- Introduction to Symbolic Logic (LPS 30), Summer 2024, UC Irvine - Aysnchronous Online
- Philosophy of Sex (LPS 91), Fall 2023, UC Irvine
- Introduction to Symbolic Logic (LPS 30), Summer 2023, UC Irvine

### Teaching Assistant

- Probability and Statistics (Sociol 10C), Spring 2024, UC Irvine
  - Voting and Manipulation (Pol Sci 151H), Winter 2024, UC Irvine
  - Global Economy (Econ 13), Spring 2023, UC Irvine
  - Philosophy of Sex (LPS 91), Winter 2023, UC Irvine
  - Peoples of the Pacific (Anthro 163A), Fall 2022, UC Irvine
  - Introduction to Inductive Logic (LPS 31), Spring 2022, UC Irvine
  - Introduction to Symbolic Logic (LPS 30), Winter 2022, UC Irvine
  - Critical Reasoning (LPS 29), Fall 2021, UC Irvine
  - Introduction to Symbolic Logic (LPS 30), Winter 2021, UC Irvine
  - Critical Reasoning (LPS 29), Fall 2020, UC Irvine
  - Introduction to Inductive Logic (LPS 31), Spring 2020, UC Irvine
  - Critical Reasoning (LPS 29), Winter 2020, UC Irvine
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## Graduate Coursework - \* = audit

### UC Irvine

- Self Assembling Games (with Jeff Barrett and Brian Skyrms)
- Puzzles in Modern Biology (with Steve Frank)
- How We Became Human (with Kyle Stanford)\*
- Game Theory in the Philosophy of Biology (with Cailin O'Connor)
- Social Dynamics (with Louis Narens and Brian Skyrms) x5
- Mathematical and Computational Biology (with German Encisco)
- Keynes' Philosophy of Probability (independent study with Brian Skyrms)
- Chance (with Simon Huttegger and Brian Skyrms)
- Intro to Voting Theory (with Marek Kaminski)
- Emerging Inequality (with Cailin O'Connor)\*
- History of Analytic Philosophy 2 (with Jeremy Heis)\*
- History of Analytic Philosophy 1 (with Jeremy Heis)
- Kant's First Critique (with Jeremy Heis)
- Philosophy of Science (topic: Decision Theory and Deliberation with Simon Huttegger)
- Philosophy of Cosmology (with Chris Smeenk and James Weatherall)\*
- Political Economy 1 (with Stergios Skaperdas)
- The Social Contract (with Brian Skyrms)
- Network Epistemology (with Cailin O'Connor)
- Incompleteness (with Toby Meadows)
- Metalogic (with Kai Wehmeier)
- Money (with Aaron James)
- University Teaching x4

### LSE

- Set Theory and Further Logic (with Miklos Redei and David Makinson)
- Philosophy of Science (with Ioannis Votsis)
- Einstein for Everyone (with Bryan Roberts)
- Physics and the City (with Bryan Roberts)

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### **Additional Educational and Professional Training**

- Kent Johnson Memorial Fund Teaching Workshop: Syllabus Design, Spring 2023
- Microsoft Excel Core Certification

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### **Research Employment and Collaborations**

**Graduate Student Researcher**, Supported by NSF grant 1922424: “Consensus, Democracy, and the Public Understanding of Science” (Co-PIs O’Connor and Weatherall). Conducted research on hiding dissent by scientists to policy makers. Summers 2020, 2021

**Researcher**, Freelifing and Parasitic Worm Collections, Natural History Museum London. Helped to perform research using mapping and computational modelling to understand the effects of climate change on worm populations. 2017-2019

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