

Cailin O'Connor

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Areas of Specialty

Philosophy of biology and behavioral science. Philosophy of science. Game theory and evolutionary game theory. Agent based modeling.

Areas of Competence

Formal Social Epistemology. Decision theory and rational choice. Values in Science.

Academic Appointments

University of California, Irvine

Associate Professor of Logic and Philosophy of Science, 2018–Present.

Assistant Professor of Logic and Philosophy of Science, 2013–2018.

Member, Institute for Mathematical Behavioral Science, 2013–Present.

Visiting Positions

Visiting Fellow, Center for Philosophy of Science, Australian National University, Summer 2019.

Visiting Fellow, Department of Mathematics, Politecnico di Milano, Spring 2019.

Visiting Fellow, Department of Philosophy, Australian National University, Summer 2017.

Visiting Fellow, Center for Natural and Social Sciences, London School of Economics, Summer 2016.

Visiting Fellow, Center for Philosophy of Science, University of Pittsburgh, Fall 2015.

Visitor, Munich Center for Mathematical Philosophy, Ludwig-Maximilians Universität, Summer 2013.

Education

Ph.D. Philosophy (LPS), *University of California, Irvine*, 2013. Dissertation: “Categories, Generalization, and Vagueness”; committee: P. Kyle Stanford (UCI, co-chair), Brian Skyrms (UCI, co-chair), Jeffrey Barrett (UCI), Simon Huttegger (UCI).

A.B. Visual and Environmental Studies, *Harvard College*, 2006.
Cum laude.

Publications

Books

- B3. “Games in the Philosophy of Biology.” in series, *Cambridge Elements in Philosophy of Biology*. G. Ramsey and M. Ruse series eds., Cambridge University Press. (2020)
- B2. “The Origins of Unfairness: Social Categories and Cultural Evolution.” Oxford University Press. (2019)
- B1. “The Misinformation Age: How False Beliefs Spread.” with James O. Weatherall, Yale University Press. (2019)

Peer Reviewed Articles

- A29. “Measuring Conventionality.” *Australasian Journal of Philosophy*. doi: 10.1080/00048402.2020.1781220 (forthcoming)
- A28. “The Dynamics of Retraction in Epistemic Networks.” with T. LaCroix and A. Geil. *Philosophy of Science*. (forthcoming)
- A27. “Communication Without Common Interest: A Signaling Experiment.” with H. Rubín, J. Bruner, and S. Huttegger. *Studies in History and Philosophy of Science C*. (forthcoming)
- A26. “Methods, Models, and the Evolution of Moral Psychology.” in *The Oxford Handbook of Moral Psychology*. M. Vargas and J. Doris eds. Oxford University Press. (forthcoming)
- A25. “Promoting Diverse Collaborations.” with M. Schneider and H. Rubín. in *The Dynamics of Science: Computational Frontiers in History and Philosophy of Science*. G. Ramsey and A. De Block eds., University of Pittsburgh Press. (forthcoming)
- A24. “Endogenous Epistemic Factionalization.” with J. Weatherall. *Synthese*. doi: 10.1007/s11229-020-02675-3 (2020)
- A23. “Conformity in Scientific Networks.” with J. Weatherall. *Synthese*. doi: 10.1007/s11229-019-02520-2 (2020)
- A22. “On the Emergence of Minority Disadvantage: Testing the Cultural Red King Hypothesis.” with A. Mohseni and H. Rubín. *Synthese* doi: 10.1007/s11229-019-02424-1 (2019)
- A21. “Social Epistemology.” with A. Goldman. *The Stanford Encyclopedia of Philosophy*. (2019)
- A20. “Experimental Economics for Philosophers.” with H. Rubín and J. Bruner. *Methodological Advances in Experimental Philosophy*. E. Fisher and M. Curtis eds., in series, *Advances in Experimental Philosophy*. J. Beebe series ed., Bloomsbury Press: London (2019)
- A19. “Inequity and Inequality in the Emergence of Norms.” with C. Cochran. *Politics, Philosophy, and Economics*. **18**(3), 264–281. doi:10.1177/1470594X19828371 (2019)
- A18. “Dynamics and Diversity in Epistemic Communities.” with J. Bruner. *Erkenntnis*. **84**(1), 101–119. doi: 10.1007/s10670-017-9950-y (2019).
- A17. “The Emergence of Intersectional Disadvantage.” with L. Bright and J. Bruner. *Social Epistemology*. **33**(1), 23–41. doi: 10.1080/02691728.2018.1555870 (2019)
- A16. “How to Beat Science and Influence People: Policy and Propaganda in Epistemic Networks.” with J. Weatherall and J. Bruner. *British Journal for the Philosophy of Science*. (2018). doi:10.1093/bjps/axy062
- A15. “The Natural Selection of Conservative Science.” *Studies in the History and Philosophy of Science A*. Special Issue on Creativity, Conservatism, and the Social Epistemology of Science. A. Currie ed. doi: 10.1016/j.shpsa.2018.09.007 (2018)
- A14. “Scientific Polarization.” with J. Weatherall. *European Journal for Philosophy of Science*. **8**(3), 855–875. doi: 10.1007/s13194-018-0213-9 (2018)
- A13. “Discrimination and Collaboration in Science.” with H. Rubín. *Philosophy of Science*. **85**(3), 380–402. doi: 10.1086/697744 (2018)
- A12. “When it’s Good to Feel Bad: Evolutionary Models of Guilt and Apology” with S. Rosenstock. *Frontiers in Robotics and AI*. doi: 10.3389/frobt.2018.00009 (2018)
- A11. “David Lewis in the Lab: An Experimental Study of Signaling Conventions,” with J. Bruner, S. Huttegger, and H. Rubín. *Synthese* **195**(2), 603–621. doi: 10.1093/bjps/axv038. (2018)
- A10. “Games and Kinds.” *British Journal for the Philosophy of Science*. doi: 10.1093/bjps/axx027 (2017)
- A9. “Power, Bargaining, and Collaboration.” with J. Bruner. *Scientific Collaboration and Collective Knowledge*. T. Boyer-Kassem, C. Mayo-Wilson, and M. Weisberg eds. Oxford University Press: Oxford (2017)

- A8. “The Cultural Red King Effect.” *The Journal of Mathematical Sociology*
doi: 10.1080/0022250X.2017.1335723 (2017).
- A7. “Evolving to Generalize: Trading Precision for Speed.” *British Journal for the Philosophy of Science*.
68(2), 389–410 (2017).
- A6. “In Epistemic Networks, Is Less Really More?” with S. Rosenstock and J. Bruner. *Philosophy of Science* **84**(2), 234–252 (2017).
- A5. “The Evolution of Guilt.” *Philosophy of Science* **83**(4), 897–908 (2016).
- A4. “Ambiguity is Kinda Good, Sometimes.” *Philosophy of Science* **82**(1), 110–121 (2015).
- A3. “Evolving Perceptual Categories.” *Philosophy of Science* **81**(5), 840–851 (2014).
- A2. “The Evolution of Vagueness.” *Erkenntnis*. **79**(4), 707–727 (2014).
- A1. “Deus Ex Machina: A Cautionary Tale for Naturalists,” with N. Fulton, E. Wagner, and P. K. Stanford. *Analyse & Kritik*. **34**(1), 276–281 (2012).

Book Reviews

- R4. “Review of *Agents and Goals in Evolution*.” *Philosophy of Science*. (2020).
- R3. “Black Holes, Black-Scholes, and Prairie Voles: an Essay Review of *Simulation and Similarity*” with J. Weatherall. *Philosophy of Science* **83**(4), 613–626 (2016).
- R2. “Review of *Philosophy of Biology*.” *Philosophy of Science*. **82**(4), 731–733 (2015).
- R1. “Review of *Darwinian Populations and Natural Selection*.” *Philosophy of Science* **79**(4), 598–593 (2012).

Other Articles/White Papers

- O6. “Fair Elections During a Crisis” white paper with twenty-five interdisciplinary authors. (2020)
- O5. “Intellectual Vice and Social Networks?” *Social Epistemology Review and Reply Collective*. **9**(2), 32–34 (2020)
- O4. “False Beliefs and the Social Structure of Science: Some Models and Case Studies” with J. Weatherall. in *Groupthink in Science*. David M. Allen and James W. Howell, Springer. (2020)
- O3. “White Paper: Deep Fakery—an Action Plan” with fifteen interdisciplinary authors. (2019)
- O2. “Guilt, Games, and Evolution.” *Emotions Researcher*, ISRE’s Sourcebook for Research on Emotion and Affect, Andrea Scaratino ed. (2016).
- O1. “Sexual Selection Studies: an NESCent Catalyst Meeting.” with Joan Roughgarden and fifteen other interdisciplinary researchers. (2015).

Public Philosophy

- P18. “No, Animals do not Have Genders.” *Nautil.us*. (August 2020).
- P17. “Hydroxychloroquine and the Political Polarization of Science.” with J. Weatherall, *Boston Review*. (May 2020).
- P16. “Why False Claims about COVID-19 Refuse to Die.” with J. Weatherall, *Nautil.us*. (April 2020).
- P15. “Using Math to Understand Inequity.” *The Oxford University Press Blog*. (February 2020).
- P14. “Gendered Division of Labor Served a Purpose. To Make Progress, Don’t Erase It. Replace It.” *The Behavioral Scientist*. (December 2019).
- P13. “The Social Media Problem is Worse Than You Think,” with J. Weatherall, *Issues in Science and Technology*. (October 2019).
- P12. “How Powerful Interests Use Science to Sway Public Opinion,” with J. Weatherall, *Zocalo Public Square*. (September 2019).

- P11. “How Misinformation Spreads—and Why We Trust It,” with J. Weatherall, *Scientific American*. (August 2019).
- P10. “The Information Arms Race Can’t Be Won, But We Have to Keep Fighting,” *Aeon*. (June 2019).
- P9. “How Misinformation Can Spread Among Scientists,” with J. Weatherall, *The Behavioral Scientist*. (April 2019).
- P8. “Six Tips for Avoiding Misinformation on Social Media,” with J. Weatherall, *Yale University Press Blog*. (March 2019).
- P7. “The Misinformation Age, summary,” with J. Weatherall, *Imperfect Cognitions Blog*. (March 2019).
- P6. “Weaponizing Reputation,” with J. Weatherall, excerpted from ‘The Misinformation Age’, *Yale Review*. **106**(4) (October 2018).
- P5. “If Evolution Favours Fairness, Why Does Inequality Persist?” *The Forum for European Philosophy Blog*, Guest Post (November 2016).
- P4. “Game Theory and The Walking Dead.” *The Huffington Post Blog* (July 2015).
- P3. “Strategic Learning and Discrimination in Academia” *Digressions and Impressions*, Guest Post (February 2015).
- P2. “Are Women Worse at Math? It’s Time to Stop Asking.” *The Huffington Post Blog* (February 2015).
- P1. “Life is Random.” *Slate Magazine* (September 2014).

Works in Progress

- W1. “Power by Association.” with T. LaCroix (under review)
- W2. “Modeling How False Beliefs Spread.” with J. Weatherall (under review)
- W3. “Modeling Minimal Conditions for Inequity.” (draft available)
- W4. “Interdisciplinarity Can Aid the Spread of Better Methods Between Scientific Communities” with P. Smaldino
- W5. “Journalistic Practice and the Public Perception of Science.” with A. Mohseni and J. Weatherall

Awards, Grants, and Honors

- Global Guests of the Madera Fellowship on Democracy and Human Rights, UNAM-Mexico, 2020.
- Network Member. Norwegian Research Council Grant, “New Frontiers of Speech: Linguistic Meaning and Communication in the Information Age,” \$9.1M Norwegian Kroner, 2020-2022.
- Top Science Stories of 2019, *Scientific American*, “How Misinformation Spreads”, December 2019.
- NSF Grant 1922424, co-PI J. Weatherall, “Consensus, Democracy, and the Public Understanding of Science,” NSF Science, Technology, and Society Research Grant, \$431,892, 2019-2022.
- Selection for New York Times, Editor’s Choice Reading List, “The Misinformation Age”, January 2019.
- Selection for *Scientific American*’s Recommended Reading List, “The Misinformation Age”, January 2019.
- Selection for Oxford University Think Festival Reading List, “How to Beat Science and Influence People”, 2018.
- Honorable Mention, Philosophy of Science Association Women’s Caucus Prize in Feminist Philosophy of Science, for “Discrimination and Collaboration in Science”, 2018.
- NSF Grant 1535139, “Social Dynamics and Diversity in Epistemic Communities,” NSF Science, Technology, and Society Research Grant, \$305,986, 2015-2019.

Justine Lambert Graduate Prize in the Foundations of Science, for “The Evolution of Vagueness,” University of California, Irvine, 2013.

A. Kimball Romney Award for Outstanding Graduate Paper, for “The Evolution of Vagueness,” University of California, Irvine, 2012.

NSF Graduate Research Fellowship Program, Honorable Mention, 2012.

Media Appearances/Coverage of Work

Walter Veit “How to Avoid Falling Victim to Fake News”, Medium Science and Technology, Q&A, June 14, 2020.

Plenary Sessions Podcast, “Misinformation and Disinformation with Dr. Cailin O’Connor”, June 15 2020.

The New Books Network Podcast, Interview about “The Misinformation Age”, May 20 2020.

Health in all Matters Podcast, Interview about “The Misinformation Age”, April 2020.

Aja Watkins and Rory Smead, Review of “The Origins of Unfairness”, Economics and Philosophy, March 2020.

Steven Sloman. “Do People Care About Evidence?” American Scientist review of “The Misinformation Age”, February 1 2020.

The Jefferson Exchange Radio Show, Interview about “The Misinformation Age”, January 22 2020.

Ann Cudd, Review of “The Origins of Unfairness, Notre Dame Philosophical Reviews, December 2019.

Thinking Clearly Radio Show, Interview about “The Misinformation Age”, December 5 2019.

Mixed Mental Arts Podcast, Interview about “The Misinformation Age”, November 14 2019.

“Where Did That Idea Come From?” This Study Shows, Interview about “The Misinformation Age”, September 30 2019.

The David Pakman Show, Interview about “The Misinformation Age”, September 25 2019.

Michael Nietzel. “A College Reading List for a Post-Truth Era”, Forbes Magazine, about “The Misinformation Age”, August 26 2019.

Chris Martin, “How False Beliefs Spread”, interview on Heterodoxy Podcast about “The Misinformation Age”, August 1 2019.

Morning Edition, radio show NPR, interview about “The Misinformation Age”, July 22 2019.

Vlasta Sikimic, interview in The Reasoner, vol 13, no 7-8 July-August, 2019.

NSW Breakfast, radio show ABC, interview about “The Misinformation Age”, June 19 2019.

Erin Nash “Review of The Misinformation Age”, British Journal for the Philosophy of Science, 2019.

Walter Veit “From Filmmaking to the Philosophy of Science”, Psychology Today, Q&A, June 4, 2019.

Walter Veit “How to Avoid Falling Victim to Fake News”, Psychology Today, Q&A, May 14, 2019.

“Facts Aren’t Enough: The Psychology of False Beliefs”, Hidden Brain, Interview about “The Misinformation Age”, May 2019.

Mike Pesca, “Why Do Fools Fall in Love?”, interview on Slate’s The Gist podcast, April, 2019.

Deutschlandfunk radio show, interview with Anneke Meyer, April, 2019.

PBS’s Open Mind, interview with Alexander Heffner, April, 2019.

Walter Veit “3 Reasons for the Rise of Fake News”, Psychology today, Q&A, April 17, 2019.

Why? radio show, interview with Jack Weinstein about “The Misinformation Age”, April 15 2019.

Inquiry, radio show WICN, interview with Mark Lynch about “The Misinformation Age”, April 4 2019.

Evan Nesterak “When the Nerves of Knowledge Send False Signals”, the Behavioral Scientist, Q&A about “The Misinformation Age”, April 2, 2019.

Get the Funk Out, radio show KUCI, interview about “The Misinformation Age”, March 11 2019.

“The Truth About Lies”, the Colin McEnroe radio show (NPR), interview about “The Misinformation Age” with co-author, March 7 2019.

“Snakes, Pando in Trouble, Spreading Misinformation, Exploring a New Island”, Constant Wonder radio show, about “The Misinformation Age”, February 21 2019.

Kenneth Silber. “Fake People and Real Scandals”, Splice Today, about “The Misinformation Age”, February 14 2019.

Brian Gallaher and Kevin Berger. “Why Misinformation is About Who You Trust, Not What You Think”, Nautilus Magazine, Q&A about “The Misinformation Age”, February 14 2019.

“Why Did So Many Americans Trust Russian Hackers’ Election Propaganda?”, NPR Morning Addition, about “The Misinformation Age”, January 22 2019.

“Tips for Reading List: Why People Spread Fake News”, The Indian Express, about “The Misinformation Age”, January 23 2019.

“How Science Spreads: Smallpox, Stomach Ulcers, and ‘The Vegetable Lamb of Tartary’”, Hidden Brain, Interview about “The Misinformation Age”, January 2019.

“Why Fighting Fake News with Facts Might Not Be Enough”, New York Times Book Review of “The Misinformation Age”, January 2019.

The Sci Phi Podcast, episode 54, (interview about my work), January 2019.

“Fake News Spreads Because We Yearn to Conform”, Pacific Standard, interview about “The Misinformation Age”, 4 January 2019.

“The Guardian view on misinformation: a moral problem”, The Guardian, about “How to Beat Science and Influence People”, 26 October 2018.

“Gender disparities and the science of women in organizations and teams”, Medium, NSF Social Media, 28 March 2018.

Emerging Technology Staff. “The tricks propagandists use to beat science”, MIT Technological Review. about “How to Beat Science and Influence People”, 22 January 2018.

“The Culture of Risk in Science”, The Naked Scientist. 24 August 2017. (Interview for podcast)

Sanford, Kiki. “Minorities Groups Lose When They Collaborate with Power”, Nautilus Magazine. Q&A article about “Power, Bargaining, and Collaboration”, 6 February 2017.

“Women in Science: Past, Present, and Future”, Forum for European Philosophy, London School of Economics. 27 September 2016. (90 minute panel discussion for public audience and podcast)

Public Lectures

- L10. The Misinformation Age. The Ethics and Empirics of Engineering Humanity Speaker Series, Villanova University, PA. (November 2020, canceled due to Coronavirus)
- L9. Misinformation Age. Los Angeles Public Library Series, CA. (August 2020)
- L8. Information Zombies and COVID-19. Press Freedom Day: Journalists Facing the COVID-19 Pandemic, Online through the US Embassy in Brasilia. (May 2020)
- L7. The Misinformation Age. University of Pennsylvania, Philadelphia, PA. (April 2020, canceled due to Coronavirus)
- L6. Will There Always be Gender Discrimination?. Fourth Annual Lecture in History and Philosophy of the Life Sciences. Tel Aviv University, Tel Aviv Israel. (March 2020, canceled due to Coronavirus)

- L5. The Misinformation Age. Central Michigan University, MI. (March 2020, canceled due to Coronavirus)
- L4. The Misinformation Age. Campus Theme Program on Uncertainty, Southern Oregon University, Ashland, OR. (January 2020)
- L3. The Misinformation Age. The Rottman Institute, University of Western Ontario, Ontario, Canada. (November 2019)
- L2. The Misinformation Age. University of Minnesota Public Lecture Series, University of Minnesota, Minneapolis, Minnesota. (September 2019)
- L1. The Misinformation Age. Cazenovia Public Lecture Series, Cazenovia, NY. (May 2019)

Invited Talks

- T88. TBA. (keynote) Science and Society, Online through LSE, London, UK. (September 2020)
- T87. TBA. (keynote) Magisterial Conference of the Francisco I. Madero Chair, Online through UNAM, Mexico City, Mexico. (September 2020)
- T86. Retraction in Scientific Networks. Philosophie und Wissenschaftsreflexion, University of Hannover, Germany. (July 2020, canceled due to Coronavirus)
- T85. Hydroxychloroquine and Belief Factions. Sinai and Sinapses, Online via The National Jewish Center for Learning and Leadership. (July 2020)
- T84. Information Zombies and Hydroxychloroquine. Thinking the Pandemic: Philosophical Perspectives on Covid-19, Online through Federal University of Minas Gerais, Brazil. (July 2020)
- T83. Risk in Science. Breakthrough Epistemology, University of St. Andrews, Scotland. (June 2020, canceled due to Coronavirus)
- T82. The Dynamics of Retraction, Online through Social Distance Epistemology. (June 2020)
- T81. Information Zombies and COVID-19. Management of COVID-19 Crisis and Fake News, Online through Berkeley Global Society and Frances-Americans. (May 2020)
- T80. Misinformation Age. Edinburgh Future Series, Edinburgh, Scotland. (June 2020, canceled due to Coronavirus)
- T79. The Evolutionary Dynamics of Inequity. Department of Evolution, Ecology, and Organismal Biology, Ohio State University, Columbus, OH. (April 2020, canceled due to Coronavirus)
- T78. Book Symposium: The Misinformation Age. Pacific APA, San Francisco, CA. (April 2020, canceled due to Coronavirus)
- T77. Scientific Polarization. (keynote) PPE Workshop, University of Pennsylvania, Philadelphia, PA. (April 2020, canceled due to Coronavirus)
- T76. Mathematical Modeling. Tel Aviv University, Tel Aviv Israel. (March 2020, canceled due to Coronavirus)
- T75. The Misinformation Age. (keynote) Medical Director Meeting, Satellite Healthcare, San Jose, CA. (March 2020)
- T74. Panelist. Can American Democracy Survive the 2020 Elections?, UC Irvine, CA. (February 2020)
- T73. The Misinformation Age, Lunchtime Talk for The Librarians Association of UCI, UC Irvine, CA. (February 2020)
- T72. Dynamics of Inequity. BEC Speaker Series. UCLA Center for Behavior, Evolution, and Culture. UCLA, CA. (February 2020)
- T71. Scientific Polarization. Archeology in a Post-Truth World. UC Irvine, Irvine, CA. (February 2020)
- T70. The Subtleties of Industrial Propaganda. Boston Colloquium for Philosophy of Science, Boston University, Boston, MA. (December 2019)

- T69. The Misinformation Age, Department of Philosophy, Northeastern University, Boston, MA. (December 2019)
- T68. The Misinformation Age. Symposium on Science, Media, and the Public, UC Irvine, Irvine, CA. (November 2019)
- T67. The Misinformation Age. Debunking 101: How to Spot Fake News and What to Do About It, UC Irvine, Irvine, CA. (November 2019)
- T66. Information Arms Races. Deep Fakery: Mathematical, Cryptographic, Social, and Legal Perspectives, UCLA, Los Angeles, CA. (November 2019)
- T65. The Misinformation Age. Impact Guild Meeting, Salt Lake City, Utah. (November 2019)
- T64. The Misinformation Age. Rotman Institute Speaker Series, Western University, Ontario, Canada. (November 2019)
- T63. The Cultural Red King Effect. Workshop on “The Origins of Unfairness”, University of Zurich, Zurich, Switzerland. (October 2019)
- T62. Dynamics and Inequity. Department of Sociology, University of Zurich, Zurich, Switzerland. (October 2019)
- T61. Faculty Panelist. Wonder Philosophy Workshop, UC Irvine, Irvine, CA. (September 2019)
- T60. Testing the Red King Hypothesis. RFMP Workshop, University of Minnesota, Minneapolis, Minnesota. (September 2019)
- T59. Faking It: False Beliefs. Panelist. World Affairs Counsel, Newport Beach, CA. (August 2019)
- T58. Making Science Propaganda Proof , Workshop on Misinformation, Australia National University, Canberra, Australia. (June 2019)
- T57. Why Do Retractions Fail? , Department of Philosophy, Australia National University, Canberra, Australia. (June 2019)
- T56. The Misinformation Age. Public Relations Boutiques International, Santa Monica, California. (June 2019)
- T55. The Misinformation Age. Incubator for Media Education and Development, via Skype, Athens, Greece. (May 2019)
- T54. The Cultural Red King Effect. Computational Philosophy Past and Future, Pacific APA, Vancouver, Canada. (April 2019, presented by co-author)
- T53. Discrimination and Collaboration in Science. Workshop on Gender, Politecnico di Milano, Milan, Italy. (March 2019)
- T52. The Science of Science. Scientific Models Lecture Series, Politecnico di Milano, Milan, Italy. (March 2019)
- T51. Polarization and Factionization in Science. (keynote) Agent Based Models in Philosophy, Munich Center for Mathematical Philosophy. Ludwig-Maximilians Universität. München, Germany. (March 2019).
- T50. The Misinformation Age. Rand Pardee Graduate Program, Santa Monica, CA. (March 2019)
- T49. How to Beat Science and Influence People. Department of Philosophy, UCLA, California. (March 2019).
- T48. The Cultural Red King Effect. Political Theory Workshop, UCSD, California. (January 2019).
- T47. Testing the Cultural Red King. California Philosophy Workshop, UCLA Malibu Forest Station, California. (October 2018).
- T46. How to Beat Science and Influence People. Descartes Center Colloquium Talk, Utrecht, Netherlands. (October 2018).
- T45. Formal Approaches to Social Epistemology. International Rationality Summer Institute 2018, Irsee, Germany. (September 2018).

- T44. Formal Approaches to Social Epistemology. Summer Program for Women in Philosophy, UCSD, La Jolla. (August 2018).
- T43. How to Beat Science and Influence People. (keynote) Conference on Computational Modeling in Philosophy, Munich Center for Mathematical Philosophy. Ludwig-Maximilians Universität. München, Germany. (June 2018).
- T42. Discrimination and Collaboration in Science. Formal Social Epistemology Workshop, UC Irvine, Irvine, CA. (May 2018).
- T41. Discrimination and Collaboration in Science. Identity, Cooperation, and Conflict, IMBS, UC Irvine, Irvine, CA. (April 2018).
- T40. Discrimination and Collaboration in Science. Formal Epistemology and Social Networks, University of Lund, Lund, Sweden. (April 2018, Presented by co-author).
- T39. Making Science Propaganda-Proof. Politics, Philosophy, and Economics Society Meeting, New Orleans, Louisiana. (March 2018).
- T38. Evolving a Gendered Division of Labor. Politics, Philosophy, and Economics Society Meeting, New Orleans, Louisiana. (March 2018).
- T37. The Dynamics of Inequity. Evolution of Social Behavior Workshop, University of Groningen, Groningen, Netherlands. (January 2018).
- T36. How to Beat Science and Influence People. IMBS Colloquium, University of California, Irvine, Irvine, CA. (January 2018).
- T35. How to Beat Science and Influence People. Department of Philosophy, University of California, San Diego, San Diego, CA. (October 2017).
- T34. How to Beat Science and Influence People. Mind, Technology, and Society Seminar Series, University of California, Merced, Merced, CA. (October 2017).
- T33. The Cultural Red King Effect. Tempo and Mode Seminar Series, Center for Macroevolution and Macroecology, Australia National University, Canberra, Australia. (August 2017).
- T32. Dynamics of Inequity. Department of Philosophy, The University of Auckland, Auckland, New Zealand. (August 2017).
- T31. Evolving Collaborative Networks. Department of Philosophy, Australia National University, Canberra, Australia. (August 2017).
- T30. Dynamics of Inequity. Moral and Political Philosophy Seminar. Department of Philosophy, Australia National University, Canberra, Australia. (July 2017).
- T29. Dynamics of Inequity. Department of Philosophy, Monash University, Melbourne, Australia. (July 2017).
- T28. Modeling the Evolution of Moral Emotions. Awesome Workshop, Australia National University, Canberra, Australia. (July 2017).
- T27. Writing Op-Eds: How and Why?, Pacific American Philosophical Association Meeting, Seattle, Washington. (April 2017).
- T26. Risk and Collaboration. Risk and the Culture of Science - Do We Need a Maverick Room?, Center for the Study of Existential Risk, Cambridge, England. (April 2017).
- T25. Games and Kinds. 10th Logos Barcelona Workshop of Naturalistic Theories of Intentionality, University of Barcelona, Barcelona, Spain. (December 2016).
- T24. Games and Kinds. Department of Philosophy, University of Salzburg, Salzburg, Austria. (October 2016).
- T23. Panel Participant. Women in Science Forum, London School of Economics, London, England. (September 2016).
- T22. Games and Kinds. Popper Seminar, Department of Philosophy, Logic, and Scientific Method, London School of Economics, London, England. (September 2016).

- T21. The Emergence of Bargaining Inequity. Choice Group, London School of Economics, London, England. (September 2016).
- T20. The Emergence of Bargaining Inequity. Department of History and Philosophy of Science, University of Cambridge, Cambridge, England. (September 2016).
- T19. “Evolutionary Behavioral Modeling” [lecture series]. MCMP Summer School on Mathematical Philosophy for Female Students. Munich Center for Mathematical Philosophy. Ludwig-Maximilians Universität. München, Germany. (July 2016).
- T18. “Power, Bargaining, and Evolution”. Colombia Workshop on Group Agency and Social Epistemology, Columbia University, New York, NY. (April, 2016).
- T17. “Power, Bargaining, and Evolution”. Institute for Mathematical Behavioral Studies, University of California, Irvine, Irvine, CA. (January 2016).
- T16. “Dynamics and Diversity in Epistemic Communities”. Minorities and Philosophy, CUNY, New York, NY. (December 2015).
- T15. “Induction.” Fundamental Concepts in Philosophy of Science Lecture Series, Politecnico di Milano, Milan, Italy. (November 2015).
- T14. “The Evolution of Guilt”. Department of Philosophy, Carnegie Melon University. Pittsburgh, PA. (November 2015).
- T13. “Dynamics and Diversity in Epistemic Communities”. Minorities and Philosophy, Carnegie Melon University, Pittsburgh, PA. (November 2015).
- T12. “Dynamics and Diversity in Epistemic Communities”. The Center for Philosophy of Science, University of Pittsburgh, Pittsburgh, PA. (September 2015).
- T11. “Modeling the Evolution of Guilt.” Philosophy Day, California State University, Long Beach, Long Beach, CA. (April 2015).
- T10. “Guilt as an Individual Level Benefit”. Philosophy of Science Conference, University of Southern California, Los Angeles, CA. (March 2015).
- T9. “Evolution, Models, and Philosophy.” Eastern American Philosophical Association Meeting, Philadelphia, PA. (December 2014).
- T8. “Evolving to Generalize: Trading Speed for Precision.” The Center for Philosophy of Science, University of Pittsburgh, Pittsburgh, PA. (December 2014).
- T7. “The Evolution of Vagueness.” 3rd CSLI Workshop on Logic, Rationality, and Intelligent Interaction. Stanford University. Stanford, CA. (May 2014).
- T6. “Evolving Perceptual Categories.” Department of Philosophy, University of Nevada, Las Vegas. Las Vegas, NV. (April 2014).
- T5. “Evolving Perceptual Categories.” Epistemology and Philosophy of Psychology Workshop, University of California, Riverside. Riverside, CA. (January 2014).
- T4. “The Evolution of Vagueness.” Department of Philosophy, University of Southern California. Los Angeles, CA. (October 2013).
- T3. “Evolving Perceptual Categories.” Department of Philosophy, Notre Dame University. South Bend, IN. (October 2013).
- T2. “Evolving to Categorize.” Munich Center for Mathematical Philosophy, Ludwig Maximilian University. Munich, Germany. (July 2013).
- T1. “Evolving to Categorize.” Department of Logic and Philosophy of Science, University of California, Irvine. Irvine, CA. (June 2013).

Referred Talks

- RT31. "Inequity and Inequality in the Emergence of Norms." Philosophy of Science Association 2018 Biennial Meeting. Symposium: "The Origins of Convention and the Impact of Conventional Origins" Seattle, WA. (November 2018, symposium contribution, presented by co-author).
- RT30. "Making Science Propaganda Proof." Philosophy of Science Association 2018 Biennial Meeting. Symposium: "Funding, Publication, and the Credit Economy in Science." Seattle, WA. (November 2018, symposium contribution).
- RT29. "Power by Association." Canadian Philosophical Association. Montreal, Canada. (June 2018, presented by co-author).
- RT28. "Power by Association." Fifth Conference of the Latin American Association for Analytic Philosophy. Villa de Leyva, Colombia. (May 2018, presented by co-author).
- RT27. "The Cultural Red King Effect". The Generalized Theory of Evolution Conference. Dusseldorf, Germany. (January 2018).
- RT26. "Discrimination and Collaboration in Science." The Fifth Conference of the European Network on Social Ontology. Lund, Sweden. (August 2017, presented by co-author).
- RT25. "Discrimination and Collaboration in Science." Formal Models of Scientific Inquiry. Ruhr-University, Bochum, Germany. (July 2017, presented by co-author).
- RT24. "Discrimination and Collaboration." Formal Epistemology Workshop. University of Washington, Seattle, Washington. (May 2017).
- RT23. "Games, Evolution, and Intersectionality." Philosophy of Science Association 2016 Biennial Meeting. Symposium: "Formal Methods and Social Epistemology." Atlanta, GA. (November 2016, symposium contribution).
- RT22. "The Evolution of Discriminatory Norms in Scientific Disciplines." The Science of Evolution and the Evolution of the Sciences. Leuven, Belgium. (October 2016).
- RT21. "Games and Kinds." 8th Quadrennial Fellows Conference. Lund, Sweden. (August 2016).
- RT20. "Cooperation Without the Cooperative Principle." Decisions, Games, and Logic. Ann Arbor, MI (July 2016, presented by co-author).
- RT19. "In Epistemic Communities, Is Less Really More?" Formal Epistemology Workshop. Groningen, Netherlands (June 2016, presented by co-author).
- RT18. "In Epistemic Communities, Is Less Really More?" Models and Simulations 7 Conference. Universitat de Barcelona. Barcelona, Spain (May 2016, presented by co-author).
- RT17. "Communication Without the Cooperative Principle." Southwest Experimental and Behavioral Economics Conference. University of California, Irvine, Irvine, CA (May 2016).
- RT16. "In Epistemic Communities, Is Less Really More?" Medical Knowledge in a Social World. University of California, Irvine. Irvine, CA. (March 2016, presented by co-author).
- RT15. "Communication Without the Cooperative Principle." Experimental Philosophy Conference. Buffalo, New York (September 2015).
- RT14. "The Evolution of Guilt: A Modeling Based Approach." Ninth Principia International Symposium, Florianopolis, Brazil (August 2015 [accepted contribution]).
- RT13. "Communication Without the Cooperative Principle." International Society for the History, Philosophy, and Social Studies of Biology Meeting 2015. Montreal, Canada. (July 2015, presented by co-author).
- RT12. "Strategic Thinking in Biology." International Society for the History, Philosophy, and Social Studies of Biology Meeting 2015. Symposium: "Evolutionary Modeling in Biology and the Behavioral Sciences 2." Montreal, Canada. (July 2015, symposium contribution).
- RT11. "Evolving to Generalize." Conference on Agent Based Models in Philosophy, Munich Center for Mathematical Philosophy, Ludwig Maximilian University, Munich, Germany (December 2014).

- RT10. “Modeling the Underrepresentation of Women in Academia.” Conference on Feminist Philosophy of Science, Ghent University, Ghent, Belgium (November 2014).
- RT9. “Guilt as a Signal.” Philosophy of Science Association 2014 Biennial Meeting. Symposium: “Moral Emotions: Approaches, Origins, and Ethics.” Chicago, IL. (November 2014, symposium contribution).
- RT8. “Experimenting on Sim-Max Games.” Experimental Social Science Laboratory Workshop. University of California, Irvine. Irvine, CA. (March 2014, presented by co-author).
- RT7. “Learning Generalization: Trading Speed for Precision.” Winter Quantitative Biology Meeting. Big Island, Hawaii. (February 2014).
- RT6. “The Evolution of Learning Generalization.” International Society for the History, Philosophy, and Social Studies of Biology Meeting 2013. Symposium: “Models of Functional Plasticity.” University of Montpellier. Montpellier, France. (July 2013, symposium contribution).
- RT5. “Perceptual Categorization.” Games, Interactive Rationality, and Learning 2013. University of Lund. Lund, Sweden. (April 2013).
- RT4. “David Lewis in the Lab: An Experimental Study of Signaling Conventions,” with J. Bruner, S. Huttegger, and H. Rubin. Games, Interactive Rationality, and Learning 2013. University of Lund. Lund, Sweden. (April 2013, presented by co-author).
- RT3. “Signaling Games and Categorization in Biological Systems.” Philosophy of Science Association 2012 Biennial Meeting. Symposium: “Signals, Signaling Games, and Biological Behavior.” San Diego, CA. (November 2012, symposium contribution).
- RT2. “The Evolution of Vagueness.” Games, Interactive Rationality, and Learning 2012. University of Lund. Lund, Sweden. (April 2012).
- RT1. “Did the Development of Language Faculties in Humans Influence the Speed of Our Cognitive Evolution?” History and Philosophy of Biology in the Desert. Arizona State University. Phoenix, AZ. (February 2011).

Courses Taught

- LPS 242: Network Epistemology (graduate seminar) Spring 2020.
- LPS 242: Philosophy of Climate Change (graduate seminar) Spring 2019.
- LPS 91: The Philosophy of Sex (lower division course) Winter 2018-present.
- LPS 242: Philosophy of Modeling (graduate seminar) Winter 2018.
- LPS 242: Information Theory (graduate seminar) Spring 2017.
- LPS 242: Formal and Empirical Approaches to Social Epistemology (graduate seminar) Spring 2016.
- LPS H91: The Philosophy and Biology of Sex (honor’s program seminar) 2016-present.
- Soc Sci H1E: The Good Life (honor’s program social science core course) Spring 2015-present.
- LPS 242: Philosophy of Biology (graduate seminar) Winter 2015.
- LPS 60: The Making of Modern Science (lower division course) 2014-2015.
- LPS 242: Cultural and Genetic Evolution (graduate seminar) Spring 2014.
- LPS 144/244: Evolutionary Game Theory (upper division/graduate lecture course) Spring 2014.

Professional Service

- Mentor**, Underrepresented Philosophy of Science Scholars mentoring program, 2020.
- Guest Speaker**, Seminar on Misinformation, University of Bayreuth, 2020.
- Speaker**, The Rockefeller University Science Outreach Program, 2020.
- Editorial Board**, Philosophy of Science Archive, 2015–present.
- Faculty Advisor**, Hypatia Society for Graduate Women in Philosophy, University of California, Irvine, 2013–present.
- Area Editor**, Ergo, 2019–present.
- Poster Committee Chair**, Philosophy of Science Association Meeting, Baltimore, 2019–2020.
- Editor**, Highlighted Philosophers on Science Visions blog, 2015–2020.
- Mentor**, Athena in Action Program, Cornell, 2019–2020.
- Speaker**, Sato Academy of Math and Sciences, 2019.
- Mentor**, The Job Candidate Mentoring Program For Women in Philosophy, 2015–2019.
- Faculty Organizer**, Women and Academia Workshop, University of California, Irvine, May, 2019.
- Program Committee Member**, Biases in Science, MCMP, LMU Munich, Germany, April, 2019.
- Poster Committee Member**, Philosophy of Science Association Meeting, Seattle, 2018.
- Organizer**, Formal Social Epistemology Workshop, University of California, Irvine, May, 2018.
- Program Committee Member**, British Society for the Philosophy of Science Annual Meeting, University of Edinburgh, July, 2018.
- Program Committee Member**, Society for the Metaphysics of Science, Milan, Italy, August, 2018.
- Chair**, Selection Committee for the Philosophy of Science Association Women’s Caucus Prize Symposium, 2018.
- Program Committee Member**, Reasoning and Argumentation in Science, Center for Advanced Studies, Ludwig Maximilian Universität, Munich, Germany, May, 2017.
- Member**, Open Access Monograph Publishing Initiative, 2016–2017.
- Member**, Future Goals for the Philosophy of Science Women’s Caucus Committee, 2016–2017.
- Program Committee Member**, British Society for the Philosophy of Science Annual Meeting, University of Edinburgh, July, 2017.
- Program Committee Member**, Formal Epistemology Workshop, University of Washington, Seattle, Washington, May, 2017.
- Symposium Organizer**, “Formal Methods and Social Epistemology,” Philosophy of Science Association 2016 Biennial Meeting, November, 2016.
- Selection Committee Member**, Philosophy of Science Association Women’s Caucus Prize Symposium, 2016.
- Organizing Committee Member**, “Games, Interaction, Rationality, Learning, and Semantics 2016,” University of Lund, 2016.
- Chair**, Philosophy of Science Association Women’s Caucus Celebrating Women Committee, Winter 2015.
- Symposium Organizer**, “Evolutionary Modeling in Biology and the Behavioral Sciences 1 and 2,” International Society for the History, Philosophy, and Social Studies of Biology Meeting 2015, July, 2015.
- Symposium Organizer**, “Moral Emotions: Approaches, Evolution, and Ethics,” Philosophy of Science Association 2014 Biennial Meeting, November, 2014.

Organizer, Southern California Philosophy of Biology Reading Group, 2013–2015.

Organizing Committee Member, Perspectives on Gender, University of California, Irvine, Fall, 2014.

Program Committee Member, Conference on Agent Based Models in Philosophy, Munich Center for Mathematical Philosophy, Ludwig Maximilian University, Munich, Germany, October, 2014.

Managing editor, *Philosophy of Science*, University of California, Irvine, January 2013–January 2014.

Organizing Committee Member, “Games, Interactive Rationality, Learning, and Signaling 2014,” University of Lund, April, 2014.

Symposium Organizer, “Information and Plasticity,” International Society for the History, Philosophy, and Social Studies of Biology Meeting 2013, July, 2013.

Program Committee Member, “Games, Interactive Rationality, and Learning 2013,” University of Lund, April, 2013.

Symposium Organizer, “Signals, Signaling Games, and Biological Behavior,” Philosophy of Science Association 2012 Biennial Meeting, November, 2012.

Founder and Organizer, Hypatia Society for Graduate Women in Philosophy, University of California, Irvine, 2010–2013.

Referee for: *Nature Human Behavior*, *Royal Society Open Science*, *Economics and Philosophy*, *Philosophical Studies*, *Proceedings of the Royal Society B*, *National Science Foundation*, *Journal of Philosophy*, *Philosopher’s Imprint*, *Australasian Journal of Philosophy*, *Oxford University Press*, *Games and Economic Behavior*, *Philosophy of Science*, *Synthese*, *Journal of the American Philosophical Association*, *The British Journal for the Philosophy of Science*, *Biology and Philosophy*, *Studies in History and Philosophy of Science*, *Philosophy & Theory in Biology*, *Southern Journal of Philosophy*, *American Philosophical Quarterly*, *Religion Brain and Behavior*.

University Service

Director, Politics, Philosophy, and Economics Master’s Program, University of California, Irvine, 2018–present.

Graduate Evaluation Committee Member, Department of Logic and Philosophy of Science, University of California, Irvine, 2013–present.

Graduate Portfolio Committee Member, Department of Logic and Philosophy of Science, University of California, Irvine, 2013–present.

Admissions Committee Member, Department of Logic and Philosophy of Science, University of California, Irvine, 2013–present.

Admissions Committee Member, Philosophy, Political Science, and Economics Master’s Degree, University of California, Irvine, 2019–present.

DECADE Mentor, Department of Logic and Philosophy of Science, University of California, Irvine, 2019-2020.

Committee Member, IMBS Executive Committee, University of California, Irvine, 2019-2020.

Committee Member, School of Social Sciences Committee on Faculty Diversity, Inclusion and Development, University of California, Irvine, 2018–present.

Faculty Keynote, Student Parent Orientation Program, University of California, Irvine, July 2019.

Presenter, Ethics in the Modern World, University of California, Irvine, April 2019.

Hiring Committee Member, Jean Claude Falmagne Chair, University of California, Irvine, 2019.

Director of Undergraduate Studies, Department of Logic and Philosophy of Science, University of California, Irvine, 2017–2018.

Presenter, LPS Graduate Student Career Day, University of California, Irvine, Spring 2016, 2017, 2018, 2019.

Presenter, Campuswide Honors Program Fireside Chat, University of California, Irvine, Winter 2016, Winter 2017.

Presenter, Campuswide Honors Program Preview Day, University of California, Irvine, Fall 2016-2019.

Rough Sort Hiring Committee Member, Department of Logic and Philosophy of Science, University of California, Irvine, Fall 2015.

Hiring Committee Member, Department of Philosophy, University of California, Irvine, Fall 2014.

Colloquium Director, Department of Logic and Philosophy of Science, University of California, Irvine, July 2013–2018.

Prize Committee Member, Experimental Social Sciences Laboratory Workshop, University of California, Irvine, February 2014.

Student Supervision

Kevin Kadowaki, (LPS) advancement committee, Summer 2020, dissertation committee (member).

Matthew Coates, (LPS) portfolio advisor, 2020-present.

Rebecca Korf, (LPS) portfolio advisor, 2020-present.

Connor Robinson-Arnall, (Carnegie Mellon University Philosophy) dissertation committee (external member), 2020

Michelle Chong, (CHP) undergraduate honor's thesis advisor, 2020.

Travis LaCroix, (LPS) advancement committee, Spring 2018, dissertation committee, Spring 2020

Esther Nikbin, (UCLA Philosophy) advancement committee (external member), 2020

Emma Cushman, (LPS) portfolio advisor, 2018-2020.

Kaetlin Taylor, (LPS) portfolio advisor, 2018-present.

Aydin Mohseni, (LPS) advancement committee (co-chair), Spring 2019, dissertation committee (co-chair)

Alysha Kassam, (LPS) portfolio advisor (2018), advancement committee (chair), Spring 2019, dissertation committee (chair)

Calvin Cochran, (IMBS) advancement committee, Fall 2018, dissertation committee Summer 2019

Alberto Soto, (EEB) advancement committee, Fall 2018

Kino Zhao, (LPS) advancement committee, Spring 2018

Gerard Rothfus, (LPS) advancement committee, Spring 2018

Jennifer Briner, (EEB) advancement committee, Spring 2017

Lindley Slipetz, (LPS) portfolio advisor, 2017

Hannah Rubin, (LPS) advancement committee, Winter 2015, dissertation committee, Spring 2017

Sarita Rosenstock, (LPS) advancement committee, Spring 2016

Nathan Fulton, (Philosophy) advancement committee, Spring 2014, dissertation committee, Fall 2016

Bahattin Tolga Oztan, (IMBS) dissertation committee, 2014-2016

Rolf Johansson, (IMBS) advancement committee, Spring 2014

Justin Bruner, (LPS) advancement committee, Fall 2013

Affiliations

Philosophy of Science Association

International Society for the History, Philosophy, and Social Studies of Biology