

AYDIN MOHSENI

curriculum vitae

CONTACT INFORMATION

address Department of Logic and Philosophy of Science
University of California, Irvine
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citizenship United States, Iran (dual citizen)

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RESEARCH INTERESTS

AOS Philosophy of Science, (Formal, Social) Epistemology

AOC Philosophy of Biology, Philosophy of Statistics, Middle Eastern Philosophy

EDUCATION

PhD 2021 UNIVERSITY OF CALIFORNIA, IRVINE
(Expected) **Logic and Philosophy of Science**
Dissertation: *Crisis, Intervention, and Backfire: An Algebra for the Social Epistemology of the Social and Biomedical Sciences*
Committee: Simon Huttegger and Cailin O'Connor (co-chairs),
Brian Skyrms, Kyle Stanford, and Marek Kaminski

MA 2020 **Mathematical Behavioral Science**

MS 2015 CARNEGIE MELLON UNIVERSITY
Logic, Computation, and Methodology

BFA 2007 MINNEAPOLIS COLLEGE OF ART AND DESIGN
Interactive Media

PEER-REVIEW JOURNAL ARTICLES

- A4 **Mohseni, A.**, & C. Williams (2019) "Truth and Conformity on Networks." *Erkenntnis*.
- A3 **Mohseni, A.**, O'Connor, C., & H. Rubin (2019) "On the Emergence of Minority Disadvantage: Testing the Red King Hypothesis." *Synthese*.

- A2 Barrett, J., Skyrms, B., & **A. Mohseni** (2019). “Self-Assembling Networks.” *British Journal of Philosophy of Science*, 70 (2), 301–325.
- A1 **Mohseni, A.** (2019). “Stochastic Stability and Disagreements Between Dynamics.” *Philosophy of Science*, 86 (3), 497-521.

ARTICLES UNDER REVIEW († ≡ revise & resubmit.)

- R2 **Mohseni, A.** “Limitations of Equilibrium Concepts in Evolutionary Games”†
- R1 LaCroix, T. & **A. Mohseni** “The Tragedy of the AI Commons”

WORKS IN PROGRESS († ≡ commissioned articles.)

- W9 **Mohseni, A.** “HARKing: From Misdiagnosis to Misprescription”
- W8 **Mohseni, A.** “Intervention and Backfire in the Replication Crisis”
- W7 **Mohseni, A.** “Changing Scientific Norms: Epistemic Trade-Offs from Classical and Bayesian Perspectives”
- W6 **Mohseni, A.**, O’Connor, C., & J. Weatherall “Journalistic Practice and the Public Perception of Science”
- W5 Stanford, K. & **A. Mohseni** “Cooperation and Folk Moral Relativism”
- W4 **Mohseni, A.** & S. Huttegger “Are Nash Equilibria Rational?”
- W3 **Mohseni, A.** “Stochasticity and Intermediate Regimes”
- W2 **Mohseni, A.** “What is the Scientific Method?” appearing in *Science and Ethics*. (Ed.) Monroe, K. University of California Press.†
- W1 **Mohseni, A.** “Recent Computational Work in Social Epistemology of Science.” *American Philosophical Quarterly*.†

RESEARCH PRESENTATIONS († ≡ invited; ‡ ≡ commenter; * ≡ poster.)

- P7 “Intervention and Backfire in the Replication Crisis”
Philosophy of Science Association Biennial · Baltimore 2021
Society for Philosophy of Science in Practice Biennial · Lansing 2020
†**Public Choice Society Annual Meeting** · Newport Beach 2020
Philosophy of Social Science Round Table · Atlanta 2020
12th Munich-Sydney-Tilburg/Turin (MuST) Conference in Philosophy of Science · Munich 2019

- P6 “On the Emergence of Minority Disadvantage”
†**APA: Central Division Meeting** · Denver 2019
APA: Pacific Division Meeting · Vancouver 2019
Agent-Based Models in Philosophy Conference · Bochum 2019
†**Philosophy, Politics & Economics Society Meeting** · New Orleans 2019
†**Philosophy and Complex Systems Seminar** · Moscow 2018
- P5 ‡“Ungrounded Payoffs”
†**Formal Epistemology Workshop** · Toronto 2018
- P4 “Truth and Conformity on Networks”
Philosophy of Science Association Biennial · Seattle 2018
Computational Modeling in Philosophy Conference · Munich 2018
†**Formal Social Epistemology Workshop** · Irvine 2018
IMBS Luce Graduate Student Conference · Irvine 2017
- P3 “Stochastic Stability and Disagreements Between Dynamics”
Generalized Theory of Evolution Conference · Dusseldorf 2018
Infinite Idealizations in Science Conference · Munich 2017
***Philosophy of Science Association Biennial** · Atlanta 2016
***PNAS: The Extension of Biology Through Culture** · Irvine 2016
IMBS Luce Graduate Student Conference · Irvine 2016
- P2 “Self-Assembling Networks”
IMBS Luce Graduate Student Conference · Irvine 2015
- P1 “Limitations of Equilibrium Concepts in Evolutionary Games”
International Society for History, Philosophy & Social Studies of Biology Biennial Meeting · Montreal 2015
Decisions, Games and Logic Conference · London 2015

AWARDS & FELLOWSHIPS

Christian Werner Fellowship · 2020
NSF Graduate Research Assistantship (Grant 1922424 for “Consensus, Democracy, and the Public Understanding of Science”; PIs Cailin O’Connor & James Weatherall) · 2019
NSF Graduate Research Assistantship (Grant 1535139 for “Social Dynamics and Epistemic Communities”; PI Cailin O’Connor) · 2016-2019
UCI DTEI Pedagogical Fellowship · 2019
IMBS Summer Research Fellowship · 2018
UCI Associate Dean Fellowship · 2018
UCI Summer Research Fellowships · 2015-2020
UCI School of Social Science Merit Scholarships · 2015-2020
CMU Merit Scholarships · 2013-2015
MCAD Merit Scholarships · 2003-2007

TEACHING EXPERIENCE

Making Modern Science	Instructor	UCI	Fall 2020
Intro to Inductive Logic	Instructor	UCI	Summer 2020
Interm Statistics	Teaching Assistant	UCI	Winter 2020
Game Theory & Politics	Teaching Assistant	UCI	Spring 2019
Voting Theory	Guest Lecturer	UCI	Winter 2019
Interm Macro Economics	Teaching Assistant	UCI	Spring 2018
Bayesian Epistemology	Guest Lecturer	UCI	Winter 2018
Interm Statistics	Teaching Assistant	UCI	Fall 2017
Intro to Game Theory	Teaching Assistant	UCI	Winter 2017
Intro to Inductive Logic	Teaching Assistant	UCI	Spring 2016
Philosophy of Biology	Teaching Assistant	UCI	Winter 2016
Intro to Logic	Grader	CMU	Summer 2015
Web Design	Instructor	MCAD	Spring 2013
Web Development	Instructor	MCAD	Fall 2012

TEACHING TRAINING

UCI DTEI Mentoring Excellence Program workshops · 2020
 Mentoring Across Differences · Spring 2020
 Balancing Academics and Wellness · Winter 2020
 UCI DTEI Certificate of Teaching Excellence · 2019
 UCI DTEI Certificate of Course Design · 2018
 UCI course in advanced course design: Uni Stu 390Z · 2020
 UCI courses in pedagogy: Uni Stu 390X, S90A, 390B, and 390C · 2018-19
 UCI Diversity and Inclusion in the Classroom workshops · 2019-20
 Inclusive Course Design Workshop · Winter 2020
 Inclusive Classroom Practices and Pedagogies Workshop · Spring 2019
 Enhancing Diversity and Equitable Inclusion Workshop · Fall 2019
 UCI Teaching Assistant Professional Development Program · 2015

PROFESSIONAL SERVICE

Referee (Journals) · Philosophy of Science, The British Journal for the Philosophy of Science, Studies in History and Philosophy of Science C: Studies in History and Philosophy of Biological and Biomedical Sciences, Synthese, Theoria, American Philosophical Quarterly
Referee (Books) · Pittsburgh University Press
Referee (Conferences) · Formal Epistemology Workshop (2020), Agent Based Models in Philosophy (Spring 2019)

Workshop Designer and Presenter · Twelve-hour TA Professional Development Program workshop for philosophy grad students (Fall 2019), two-hour workshops on diversity & inclusion for graduate students in the school of social sciences (Winter 2020, Spring 2020)

Organizer · Philosophy of Science Association Symposium Panel on “Modeling the Social Structure of Science” (Fall 2021)

Program Facilitator · LPS Summer Diversity Workshop (Summer 2020), 17th Annual Formal Epistemology Workshop (Spring 2020), Formal Social Epistemology Workshop (Spring 2018), Philosophy of Machine Learning Conference (Spring 2018), Medical Knowledge in a Social World Conference (Spring 2016)

Public Outreach Volunteer · Public Philosophy Booth, Long Beach Farmer’s Market (2020), Center for Open Science Ambassador

LANGUAGES

English (fluent) primary language of education

Persian (native) fluent oral skills, 4 years writing instruction

Moroccan Arabic (advanced) certified proficiency, 2 years living in Morocco

TECHNICAL CAPACITIES

Mathematics · Real Analysis, Stochastic Processes, Probability Theory, (Bayesian & Classical) Statistics, Machine Learning, Differential Equations, Linear Algebra, Multivariate Calculus

Logic · Set Theory, Computability Theory, Predicate Logic

Programming · R, Shiny, Stan, Python, Processing, Lingo

Scientific Computing · Mathematica, MATLAB, NetLogo, Excel

Experiment Design · oTree, zTree, Amazon Turk, Qualtrics

Markup · L^AT_EX, XML, CSS & HTML

AFFILIATIONS

Philosophy of Science Association

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

Philosophy, Politics, and Economics Society

American Philosophical Association

Center for Open Science (Ambassador)

COMMITTEE REFERENCES

Dr. Simon Huttegger

Professor of Logic and Philosophy of Science
University of California, Irvine
shuttegg@uci.edu

Dr. Cailin O'Connor

Associate Professor of Logic and Philosophy of Science
University of California, Irvine
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Dr. Brian Skyrms

Distinguished Professor of Logic and Philosophy of Science
University of California, Irvine
bskyrms@uci.edu

Dr. Kyle Stanford

Professor of Logic and Philosophy of Science
University of California, Irvine
stanford@uci.edu

EXTERNAL REFERENCES

Dr. Bert Baumgaertner

Associate Professor of Philosophy, Acting Chair of Politics and Philosophy
University of Idaho
bbaum@uidaho.edu

Dr. Daniel Mann (teaching reference)

Director of Grad Student & Postdoc Scholar Instructional Development
University of California, Irvine
dmann@uci.edu

Dr. Kevin Zollman

Professor of Philosophy and Social and Decision Sciences
Carnegie Mellon University
kzollman@andrew.cmu.edu

SELECTED GRADUATE COURSEWORK († ≡ directed study; * ≡ audited.)

<i>Philosophy of Science and Epistemology</i>	Philosophy of Science	J. Norton	PITT	2014
	Scientific Representation & Explanation	K. Waters	UMN	2013
	Scientific Realism & Antirealism	K. Stanford	UCI	2017
	Kant's Philosophy of Science	J. Heis	UCI	2018
	Social Epistemology of Science	C. O'Connor	UCI	2016
	Network Epistemology	C. O'Connor	UCI	2020
	Philosophy of Modeling	C. O'Connor	UCI	2018
	Conscious Systems	K. Saberi	UCI	2018
	Information Theory	C. O'Connor	UCI	2017
	Probability & Determinism	J. Manchak	UCI	2018
	Foundations of Quantum Mechanics	J. Barrett	UCI	2018
	<i>Game & Decision Theory and Rational Choice</i>	Game Theory	T. Seidenfeld	CMU
Foundations of Game Theory [†]		T. Seidenfeld	UCI	2014
Evolutionary Game Theory [†]		K. Zollman	UCI	2014
Advanced Game Theory		J. Carvallo	UCI	2017
Rationality and Nash Equilibria [†]		S. Huttegger	UCI	2016
Evolution of Signals		B. Skyrms	UCI	2019
Self-Assembling Games [†]		J. Barrett	UCI	2015
Algorithms, Games & Networks*		A. Procaccia	CMU	2015
Experimental Applications of Games [†]		C. O'Connor	UCI	2015
Utilitarianism & Measurement Theory		B. Skyrms & L. Narens	UCI	2019
<i>Philosophy of Statistics and Statistics</i>	Philosophy of Statistics	S. Huttegger	UCI	2018
	Bayesian Data Analysis*	M. Guindani	UCI	2019
	Bayesian Epistemology	S. Huttegger	UCI	2018
	Bayesian Statistics	B. Shahbaba	UCI	2019
	Chance	B. Skyrms	UCI	2017
	Measure Theory*	K. Krupchyk	UCI	2017
	Foundations of Analysis	J. Rogness	UMN	2013
	Intermediate Probability & Statistics	Y. Yu	UCI	2016
	Probabilistic Machine Learning	P. Smyth	UCI	2017
Stochastic Processes	J. Jin	CMU	2016	
<i>Philosophy of Biology and Philosophy of Economics</i>	Evolution of Morality	K. Stanford	UCI	2016
	Evolution of Cognition*	K. Stanford	UCI	2018
	Cultural Evolution	W. Wimsatt	UMN	2013
	Ecology and Evolutionary Biology*	S. Frank	UCI	2015
	Mathematical Computational Biology	F. Wan	UCI	2015
	Philosophy of Genetics	K. Schaffner	PITT	2015
	Experimental Economics	J. Duffy	UCI	2016
	Economics of Identity and Culture*	J. Carvallo	UCI	2018
	The Social Contract	B. Skyrms	UCI	2020
Social Dynamics	B. Skyrms	UCI	2015	
<i>Philosophy of Logic and Logic</i>	Philosophy of Logic	R. Cook	UMN	2012
	Wittgenstein's Philosophy of Logic I	P. Maddy	UCI	2018
	Wittgenstein's Philosophy of Logic II	P. Maddy	UCI	2019
	Undecideability and Incompleteness	C. Roux	CMU	2014
	Advanced Symbolic Logic	R. Cook	UMN	2012
	Formal Logic	J. Avigad	CMU	2013
	Set Theory	S. Walsh	UCI	2016
	Formal Methods	K. Kelly & K. Zollman	CMU	2014
	Introduction to Formal Methods	T. Seidenfeld & P. Spirtes	CMU	2013