Boris Babic

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last update: March 2023

Academic Appointments

Academic Appointments	
Assistant Professor, University of Toronto, St. George Department of Philosophy and Department of Statistical Sciences (joint appointment Faculty Fellow, Schwartz Reisman Institute for Technology and Society	2021- ent)
Assistant Professor, INSEAD Department of Decision Sciences (France and Singapore)	2019-2021
Postdoctoral Scholar, California Institute of Technology	2017-2019
Education	
PhD in Philosophy, University of Michigan, Ann Arbor	2013-2017
Dissertation Title: Foundations of Epistemic Risk Committee: James Joyce (Chair), Peter Railton, Brian Weatherson, Rich Gonzalez (Statistics/ Psychology)	
MS in Statistics, University of Michigan, Ann Arbor	2015-2017
JD, cum laude, Harvard Law School	2007-2010
BA, summa cum laude, York University	2003-2007
Areas of Specialization and Competence	

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AOS: Bayesian Statistics; Ethics Law and Policy of AI and Machine Learning; Epistemology **AOC**: Decison & Game Theory, Legal Theory

Publications

Academic Journal Articles.	
1. The Algorithmic Explainability Bait and Switch, Minnesota Law Review with I. Glenn Cohen	Exp. 2023
2. Moral Encroachment Under Moral Uncertainty, Philosophers' Imprint with Zoë Johnson King	Exp. 2023

3. Algorithmic Fairness and Resentment, Philosophical Studies with Zoë Johnson King	Exp. 2023
4. Comment on Ariel Dora Stern, "Regulation of Medical AI", The Economics of Artificial Intelligence edited by Ajay Agrawal, Joshua Gans, and Avi Goldfarb	Exp 2023
5. Beware Explanations from AI in Health Care, Science with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke	2021
6. Direct Advertising of Medical Machine Learning, Nature Machine Intelligence with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke	2021
7. Normativity, Epistemic Rationality and Noisy Statistical Evidence, British Journal for the Philosophy of Science with Anil Gaba, Ilia Tsetlin, and Robert L. Winkler	2021
8. Approximate Coherentism and Luck, Philosophy of Science	2021
9. A System View for Medical Machine Learning Policy, Nature Digital Medicine with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke	2020
10. Moral Obligation & Epistemic Risk, Oxford Studies in Normative Ethics with Zoë Johnson-King	2020
11. Algorithms on Regulatory Lockdown, Science with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke	2019
12. A Theory of Epistemic Risk, Philosophy of Science	2019
Other Writing	
13. Explaining Medical AI is Easier Said than Done, STAT News with Sara Gerke	2021
14. When Machine Learning Goes off the Rails, Harvard Business Review with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke	2020
15. Can AI Decide Who Gets an Organ Transplant?, Harvard Business Review with I. Glenn Cohen, Theodoros Evgeniou, Sara Gerke, and Nikos Trichakis	2020
16. Onboarding AI, Harvard Business Review with Daniel Chen, Theodoros Evgeniou, and Anne-Laure Fayard	2020

In Progress

- 17. Resolute and Correlated Bayesians (under review) with Anil Gaba, Ilia Tsetlin, and Robert L. Winkler
- 18. Reframing the Interpretability Accuracy Tradeoff (under review) with Zhanghan Yin
- 19. Bayesian Bandits and New Hypotheses (in progress) with Ilia Tsetlin
- 20. The Cost of Data Bias:

A Model of the Diminishing Value of Noisy Information (in progress) with Robin Gong

Presentations

"The Cost of Data Bias"

IMS International Conference on Statistics and Data Science, Lisbon (December 2023)

"Bayesian Bandits and New Hypotheses"

NYU-Rutgers Workshop on the Foundations of Probability (January 2023)

"The Case Against Explainable Medical Machine Learning"

Canadian Statistical Society, Annual Meeting (June 2021)

University of Toronto, Schwartz Reisman Institute (September 2021)

Frankfurt School of Finance and Management (June 2022)

University of Toronto, Rotman School of Management (October 2022)

"Resolute and Correlated Bayesians"

California Institute of Technology (June 2021)

University of Bristol (May 2021)

UC Irvine, Formal Epistemology Workshop (May 2022)

"Noisy Stereotypes"

UC Irvine, Formal Epistemology Workshop (April 2020)

University of Toronto (February 2020)

University of Washington (February 2020)

University of Stirling and Edinburgh, Varieties of Risk Project (November 2021)

"Algorithmic Discrimination and Epistemic Risk"

London School of Economics (February 2019)

INSEAD (February 2019)

California Institute of Technology (January 2019)

King's College London (July 2021)

"Moral Obligation and Epistemic Risk"

Arizona Workshop in Normative Ethics (January 2019)

"A Challenge for Approximate Coherentism"

University of Colorado, Boulder, 34th Conf. on Chance and Probability (October 2018)

"Testing for Discrimination and the Risk of Error"

The Australian National University (July 2018)

"Dynamic Epistemic Risk"

University of California, Irvine (February 2018) California Institute of Technology (January 2018)

"Generalized Entropy and Epistemic Risk"

University of Michigan, Philosophy of Science Colloquium (February 2018) London School of Economics, Philosophy of Probability Conference (June 2017) University of Chicago, Graduate Conference (April 2016)

"Frequency Encoding Credences"

London School of Economics, Decisions, Games and Logic Workshop (June 2015)

"Degrees of Belief, Moral Judgment, and Legal Responsibility"

Harvard Legal Philosophy Colloquium (November 2014)

Fellowships & Awards (Selected)

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From Outcome Disparity to Data Inequality, Insight Grant (Sole PI, \$76,500) Social Sciences and Humanities Research Council of Canada	2021-2025
Faculty Fellowship (\$25,000) Schwartz Reisman Institute	2021-2025
Faculty Fellowship (\$25,000) Connaught New Faculty Research Prize	2021-2025
Reconceiving Procedural Fairness, Insight Dlpt Grant (Collaborator, \$64,584) Social Sciences and Humanities Research Council of Canada	2021-2025
Institutional Grant (Sole PI, \$2,500) Social Sciences and Humanities Research Council of Canada	2021-2022
Fair Machine Learning, Research Grant (\$7,500) The Desmarais Fund for Research in AI	2020
Doctoral Fellowship (\$60,000) Social Sciences and Humanities Research Council of Canada	2015-2018
Rackham Dissertation Fellowship (\$10,200) University of Michigan, Ann Arbor	2017
Rackham Research Grant (\$3,000) University of Michigan, Ann Arbor	2017
Mellon Recruitment Fellowship (\$4,000) University of Michigan, Ann Arbor	April 2013
Rhodes Scholarship Finalist Ontario	December 2009

Harvard Law School

Teaching

Bayesian Statistics (BA) Spring 2023, Spring 2022

University of Toronto

Philosophy of Science (PhD)

Spring 2022

University of Toronto

Statistics, Ethics and Law (new course) (MSc)

Fall 2021

University of Toronto

Ethical Issues in Big Data (new course) (BA)

Spring 2023, Fall 2021

University of Toronto

Bayesian Statistics (PhD) Fall 2020, Fall 2019

INSEAD

Management Decision Making (MBA) Spring 2021, Spring 2020

INSEAD

Data Analysis (Masters in Management) Fall 2020

INSEAD

Quantitative Methods (MBA) Summer 2019, Fall 2019, Fall 2020

INSEAD

Statistics, Ethics and Law (new course)

Spring 2018

Caltech

Probability, Evidence and Belief Spring 2018, Fall 2018

Caltech

Knowledge and Reality Fall 2017, Spring 2019

Caltech

Nature of Science Fall 2016

University of Michigan

Knowledge and Reality Summer 2016

University of Michigan

Legal Experience

Stikeman Elliott, LLP Toronto
Litigation Attorney 2012–2013

Quinn, Emanuel, Urquhart & Sullivan, LLP Los Angeles
Litigation Attorney 2010–2012

Kirkland & Ellis, LLP

Summer Associate (offer extended)

New York

Summer 2009

Summer Associate (offer extended)

Summer 2009

Petrie-Flom Center for Health Law Policy, Biotechnology & Bioethics Cambridge, MA *Research Assistant* 2009–2010

Professional Service

Reviewer for the following publications:

Philosophy of Science, Mind, BJPS, Theory & Decision, PPR, Ergo, Synthese, PPQ, APQ, Philosophical Studies

ACM Transactions on Probabilistic Machine Learning Associate Editor	2023-	
ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT) <i>Program Committee</i>	June 2022	
AAAI/ACM Conference on AI, Ethics and Society Program Committee	May 2021	
10th Workshop in Decisions, Games and Logic Organizer (Co-), \$10,000+ grant funding	June 2019	
Philosopher's Annual <i>Editor (Volumes 35 and 36)</i>	2017, 2016	
Foundations of Belief and Decision Making Workshop Coordinator (and Co-founder), \$11,000+ grant funding	2015-2017	
9th Workshop in Decisions, Games and Logic Organizer (Co-), \$4,000 grant funding	July 2015	
Law & Philosophy Working Group Coordinator (Co-), \$12,000 grant funding	2013-2015	
Harvard Journal of Law and Technology Editor	2007-2009	

Computer Skills

R, Python, SAS, JAGS, Stan

Memberships & Affiliations

State Bar of California, Provincial Bar of Ontario

References

Research

James Joyce

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Jonathan Weisberg

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Teaching.....

Elizabeth Anderson

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