Boris Babic

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last update: August 2024

Academic Appointments

Tenure Stream Associate Professor and HKU100 Scholar, **University of Hong Kong**2023Institute of Data Science
Department of Philosophy
Faculty of Law (by courtesy)

I am also a Principal Investigator of the AI & Humanity Lab and a faculty member/affiliate of the Urban Systems Institute, the Programme on Artificial Intelligence and the Law, and the Centre for Interdisciplinary Legal Studies, all at HKU.

Additionally, I will remain Associate Professor (status only) at the University of Toronto, and a faculty affiliate of the Schwartz Reisman Institute for Technology and Society, also at the University of Toronto.

Tenure Stream Assistant Professor, University of Toronto	2021-2024
Department of Statistical Sciences Department of Philosophy Faculty of Law (by courtesy) Faculty Fellow, Schwartz Reisman Institute for Technology and Society	
NOTE : For 2023-2024, I took a leave of absence and joined the University of Hong Kong, where I have remained since.	
Tenure Stream Assistant Professor, INSEAD Department of Decision Sciences (France and Singapore)	2019-2021
Postdoctoral Scholar, California Institute of Technology (Caltech)	2017-2019
Education	
Education PhD in Philosophy, University of Michigan, Ann Arbor	2013-2017
	2013-2017
PhD in Philosophy, University of Michigan, Ann Arbor Dissertation Title: Foundations of Epistemic Risk Committee: James Joyce (Chair), Peter Railton,	2013-2017 2015-2017
PhD in Philosophy, University of Michigan, Ann Arbor Dissertation Title: Foundations of Epistemic Risk Committee: James Joyce (Chair), Peter Railton, Brian Weatherson, Rich Gonzalez (Statistics/ Psychology)	

Grants/Fund Raising

I have raised over $430,000\ \text{CAD}$ / $2.5\ \text{million}$ HKD in research funding in the last three years from:

- o Research Grants Council, Government of Hong Kong
- O Social Sciences and Humanities Research Council of Canada,
- O Schwartz Reisman Institute for Technology and Society,
- o Connaught Labs Fund,
- o Transform Heart Failure, and
- o the Ted Rogers Center for Heart Research.

Further details are provided below.

Areas of Specialization and Competence

AOS: Law, Policy, and Ethics of AI and Machine Learning; Bayesian Statistics

AOC: Decision & Game Theory, Legal Theory

Publications

Academic Journal Articles	
1. Resolute and Correlated Bayesians, Philosophers' Imprint with Anil Gaba, Ilia Tsetlin, and Robert L. Winkler	Exp 2024
2. On the Epistemic Significance of Noise, Oxford Studies in Epistemology with Zoe Johnson King	Exp 2024
3. The Algorithmic Explainability Bait and Switch, Minnesota Law Review with I. Glenn Cohen	2023
4. Moral Encroachment Under Moral Uncertainty, Philosophers' Imprint with Zoë Johnson King	2023
5. How AI Can Learn from the Law, Nature Digital Medicine with I. Glenn Cohen, Sara Gerke, Theodoros Evgeniou, Klaus Wertenbroch and Qiong Xia	2023
6. Algorithmic Fairness and Resentment, Philosophical Studies with Zoe Johnson King	2023
7. Comment on Ariel Dora Stern, "Regulation of Medical AI", The Economics of Artificial Intelligence edited by Ajay Agrawal, Joshua Gans, and Avi Goldfarb	2023
8. Beware Explanations from AI in Health Care, Science with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke	2021
9. Direct Advertising of Medical Machine Learning, Nature Machine Intelligence with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke	2021
10. Normativity, Epistemic Rationality and Noisy Statistical Evidence, British Journal for the Philosophy of Science	2021

with Anil Gaba, Ilia Tsetlin, and Robert L. Winkler	
11. Approximate Coherentism and Luck, Philosophy of Science	2021
12. A System View for Medical Machine Learning Policy, Nature Digital Medicine with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke	2020
13. Moral Obligation & Epistemic Risk, Oxford Studies in Normative Ethics with Zoë Johnson-King	2020
14. Algorithms on Regulatory Lockdown, Science with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke	2019
15. A Theory of Epistemic Risk, Philosophy of Science	2019
Other Writing.	
16. Explaining Medical AI is Easier Said than Done, STAT News with Sara Gerke	2021
17. When Machine Learning Goes off the Rails, Harvard Business Review with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke	2020
18. Can AI Decide Who Gets an Organ Transplant?, Harvard Business Review with I. Glenn Cohen, Theodoros Evgeniou, Sara Gerke, and Nikos Trichakis	2020
19. Onboarding AI, Harvard Business Review with Daniel Chen, Theodoros Evgeniou, and Anne-Laure Fayard	2020
In Progress.	
20. Justifiable AI: How to Seek Assurance for Large Language Models (in progress) with Julian Savulescu and I. Glenn Cohen	
21. Managing Failure: How Should We Govern Problems from Medical AI/ML Devices? (in progress) with Ariel Dora Stern and I. Glenn Cohen	

Presentations

"Justifiable AI: How to Seek Assurance for Large Language Models"

Centre for the Study of Bioethics/Hastings/Oxford Uehiro Joint Conference (May 2024) IVR 2024, Seoul (July 2024)

HKU Law and Philosophy of AI Workshop (July 2024)

"How Not to Open up the AI Black Box"

HKU Urban Systems Institute (March 2024) Wharton School of Business (December 2023)

HKU Faculty of Law (June 2023)

"The Cost of Data Bias"

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

"Managing Failure: How Should We Govern Problems from Medical AI/ML Devices?"

NUS Faculty of Medicine (September 2023)

"The Algorithmic Explainability Bait and Switch"

HKU Faculty of Law (June 2023)

HKU Institute for Data Science (June 2023)

NUS Faculty of Medicine (June 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)

Grants (Selected)

The Legal and Ethical Foundations of Generative Models (PI, 478,2 General Research Fund (GRF), Hong Kong Research Grants Cou	•
Regulating the AI Lifecycle: A Multidisciplinary Perspective (Co P XSeed Grant, DOSS, ECE, Transform HF/Ted Rogers Centre for	
Summer Research Fellowship (\$5,250) University of Toronto Excellence Award	2023
From Outcome Disparity to Data Inequality, Insight Grant (Sole PI Social Sciences and Humanities Research Council of Canada	, \$76,500) 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 (Collaborato Social Sciences and Humanities Research Council of Canada	r, \$64,584) 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
Teaching	
Ethical Issues in Big Data (new course) (PhD) University of Hong Kong, Institute of Data Science	Fall 2024
Foundations of AI, Data and Algorithms (new course) (MA) <i>University of Hong Kong, Department of Philosophy</i>	Fall 2023, Fall 2024
Formal Methods for AI, Ethics and Society (new course) (MA) <i>University of Hong Kong, Department of Philosophy</i>	Spring 2024, Spring 2025
Law and Ethics of Artificial Intelligence (new course) (LLB) <i>University of Hong Kong, Faculty of Law</i>	Spring 2024, Spring 2025
Bayesian Statistics (BA) University of Toronto	Spring 2023, Spring 2022

Philosophy of Science (PhD) University of Toronto	Spring 2022
Statistics, Ethics and Law (new course) (MSc) <i>University of Toronto</i>	Fall 2021
Ethical Issues in Big Data (new course) (BA) <i>University of Toronto</i>	Spring 2023, Fall 2021
Bayesian Statistics (PhD) INSEAD	Fall 2020, Fall 2019
Management Decision Making (MBA) <i>INSEAD</i>	Spring 2021, Spring 2020
Data Analysis (Masters in Management) <i>INSEAD</i>	Fall 2020
Quantitative Methods (MBA) INSEAD	Summer 2019, Fall 2019, Fall 2020
Statistics, Ethics and Law (new course) Caltech	Spring 2018
Probability, Evidence and Belief <i>Caltech</i>	Spring 2018, Fall 2018
Knowledge and Reality Caltech	Fall 2017, Spring 2019
Nature of Science University of Michigan	Fall 2016
Knowledge and Reality University of Michigan	Summer 2016
Professional Service	
Service at the University of Hong Kong	
Developing new Double BA Program in Computer Scien Core Committee Member	nce and Humanities 2024-
Developing new Executive Education Program on Response Core Committee Member	onsible AI in Business 2024-
Branding and Marketing Committee at the Institute of E Core Committee Member	Data Science 2024-
Developing Hong Kong Ethics Lab and new MAPPE Pro General Committee Member	ogram 2024-
Editorial Positions	
Senior Associate Editor, ACM Transactions on Probabilistic Machine Learning TOPML is a newly established ACM journal on Bayesian ma Theodoros Papamarkou and Wray Buntine.	2023- achine learning, edited by Fang Liu,

Other Service....

Reviewer for the following publications:

Philosophy of Science, Mind, BJPS, Theory & Decision, PPR, Ergo, Synthese, PPQ, APQ Philosophical Studies, Nature Digital Medicine, OUP, Philosophy & Technology Journal of Law and the Biosciences

7th Conference on Bayesian, Frequentist and Fiducial Inference (BFF7) Session Organizer	June 2022
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
Philosopher's Annual <i>Editor (Volumes 35 and 36)</i>	2017, 2016
Harvard Journal of Law and Technology Editor	2007-2009

Legal Experience

Stikeman Elliott, LLP Litigation Attorney	Toronto 2012–2013
Quinn, Emanuel, Urquhart & Sullivan, LLP Litigation Attorney	Los Angeles 2010–2012
Kirkland & Ellis, LLP Summer Associate (offer extended)	New York Summer 2009
Petrie-Flom Center for Health Law Policy, Biotechnology & Bioethics Research Assistant	Cambridge, MA 2009–2010

Computer Skills

R, Python, SAS, JAGS, Stan

Memberships & Affiliations

State Bar of California, Provincial Bar of Ontario

US District Court for the Northern District of California

References

James Joyce

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Peter Railton

Gregory S. Kavka Distinguished University Professor, University of Michigan, Ann Arbor office. 734. 763. 2122 cell. 734. 395. 1350 prailton@umich.edu

Anil Gaba

ORPAR Chaired Professor of Risk Management and Decision Sciences, INSEAD, France and Singapore office. +65. 6799. 5334 anil.gaba@insead.edu

Christopher Hitchcock

J. O. and Juliette Koepfli Professor of Philosophy, California Institute of Technology office. 626. 395. 3602 cricky@caltech.edu

Brian Weatherson

Marshall M. Weinberg Professor of Philosophy, University of Michigan, Ann Arbor office. 734.764.6285 weath@umich.edu

I. Glenn Cohen

James A. Attwood and Leslie Williams, Professor of Law, Deupty Dean, Harvard Law School office. 617.496.2518 igcohen@law.harvard.edu

Simon Huttegger

Professor, Logic and Philosophy of Science, University of California, Irvine office. 949. 824. 3220 shuttegg@uci.edu

Jonathan Weisberg

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Elizabeth Anderson

(Teaching Referee)
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University Professor,
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Ann Arbor
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