Boris Babic

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last update: June 2021

Academic Appointments

Assistant Professor, **University of Toronto**   *2021-*
Department of Philosophy and Department of Statistical Sciences (co appointed)

Assistant Professor, **INSEAD**   *2019-2021*
Department of Decision Sciences (France and Singapore)

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

AOS: Philosophy of Science & Epistemology, Bayesian Statistics, Ethics & Data Science
AOC: Decison & Game Theory, Philosophy of Law, History of Analytic Philosophy

Publications

Peer-Reviewed Journal Articles

1. The Case Against Explainable Medical Machine Learning, **Science**   Exp 2021
with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke

2. Direct Advertising of Medical Machine Learning, **Nature Machine Intelligence**   2021
with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke

3. Normativity, Epistemic Rationality and Noisy Statistical Evidence,   2021
British Journal for the Philosophy of Science
with Anil Gaba, Ilia Tsetlin, and Robert L. Winkler

4. Approximate Coherentism and Luck, **Philosophy of Science**   2021

5. A System View for Medical Machine Learning Policy, **Nature Digital Medicine**   2020
with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke

6. Moral Obligation & Epistemic Risk, **Oxford Studies in Normative Ethics**   2020
with Zoë Johnson-King

7. Algorithms on Regulatory Lockdown, **Science**   2019
with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke

8. A Theory of Epistemic Risk, **Philosophy of Science**   2019

Other Writing

9. When Machine Learning Goes off the Rails, **Harvard Business Review**   2020
with I. Glenn Cohen, Theodoros Evgeniou, and Sara Gerke

10. Can AI Decide Who Gets an Organ Transplant?, **Harvard Business Review**   2020
with I. Glenn Cohen, Theodoros Evgeniou, Sara Gerke, and Nikos Trichakis

11. Onboarding AI, **Harvard Business Review**   2020
with Daniel Chen, Theodoros Evgeniou, and Anne-Laure Fayard

In Progress

12. Moral Encroachment under Moral Uncertainty
with Zoë Johnson King

13. Resolute and Correlated Bayesians
with Anil Gaba, Ilia Tsetlin, and Robert L. Winkler

14. Algorithmic Fairness and Resentment
with Zoë Johnson King

15. Machine Learning, Epistemic Risk, and the Value Free Ideal

Presentations

"The Case Against Explainable Medical Machine Learning"

Canadian Statistical Society, Annual Meeting (June 2021)

"Resolute and Correlated Bayesians"

California Institute of Technology (June 2021)
The University of Bristol (May 2021)

"Noisy Stereotypes"

UC Irvine, Formal Epistemology Workshop (April 2020)
University of Toronto (February 2020)
University of Washington (February 2020)

"Algorithmic Discrimination and Epistemic Risk"

London School of Economics (February 2019)
INSEAD (February 2019)
California Institute of Technology (January 2019)

"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)

Reconceiving Procedural Fairness, Insight Grant (Collaborator)   *2021-*
Social Sciences and Humanities Research Council of Canada

Fair Machine Learning, Research Grant ($7,500)   *2020*
The Desmarais Fund for Research in AI

Doctoral Fellowship ($60,000)   *2015-2018*
Social Sciences and Humanities Research Council of Canada

Rackham Dissertation Fellowship ($10,200)   *2017*
University of Michigan, Ann Arbor

Rackham Research Grant ($3,000)   *2017*
University of Michigan, Ann Arbor

Mellon Recruitment Fellowship ($4,000)   *April 2013*
University of Michigan, Ann Arbor

Rhodes Scholarship Finalist   *December 2009*
Ontario

Public Interest Law Fellowship ($5,000)   *2008*
Harvard Law School

Teaching

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 (designed 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 | New York
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

AAAI/ACM Conference on AI, Ethics and Society | *May 2021*
Program Committee

10th Workshop in Decisions, Games and Logic | *June 2019*
Organizer (Co-), $10,000+ grant funding

Philosopher's Annual | *2017, 2016*
Editor (Volumes 35 and 36)

Foundations of Belief and Decision Making Workshop | *2015-2017*
Coordinator (and Co-founder), $11,000+ grant funding

9th Workshop in Decisions, Games and Logic | *July 2015*
Organizer (Co-), $4,000 grant funding

Law & Philosophy Working Group | *2013-2015*
Coordinator (Co-), $12,000 grant funding

Harvard Journal of Law and Technology | *2007-2009*
Editor

Computer Skills

R, Python, SAS, JAGS, Stan

Memberships & Affiliations

State Bar of California, Provincial Bar of Ontario

References

Research

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Teaching

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