

# MARCELLO DI BELLO

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EDUCATION	<b>Stanford University</b> , Ph.D., Philosophy DISSERTATION: <i>Statistics and Probability in Criminal Trials</i> <b>University of Amsterdam</b> , M.Sc., Logic M.SC. THESIS: <i>Formalizing Legislation in the Event Calculus</i> <b>Catholic University of Milan</b> , B.A., Philosophy	2007–2013 2005–2007 2001–2004
ACADEMIC POSITIONS	<b>Arizona State University</b> ASSOCIATE PROFESSOR, <i>School of Historical, Philosophical &amp; Religious Studies</i> ASSISTANT PROFESSOR, <i>School of Historical, Philosophical &amp; Religious Studies</i> <b>Lehman College, City University of New York</b> ASSISTANT PROFESSOR, <i>Department of Philosophy</i> <b>Institute for Advanced Study, Princeton</b> INFOSYS FELLOW, <i>School of Social Science</i> <b>Stanford University</b> LECTURER, <i>Department of Philosophy</i>	from 2024 2020–2024 2014–2020 2016–2017 2014
RESEARCH INTERESTS	Evidence and probability; risk and decision-making; algorithmic fairness; statistics in the law	
GRANTS/ AWARDS	Fellowship, Institute for Humanities Research, ASU Seed Grant, Institute for Humanities Research, ASU PSC-CUNY Research Grant Faculty Fellowship Publication Program, CUNY Summer Seminar in the Philosophy of Statistics, Virginia Tech PSC-CUNY Research Grant Fellowship, Institute for Advanced Study, Princeton Scholar Incentive, Lehman College, CUNY PSC-CUNY Research Grant Huygens Scholarship, Netherlands Organization for International Cooperation	2023–2024 2022–2023 2020–2021 2019–2020 2019 2016–2017 2016–2017 2016–2017 2015–2016 2006–2007
BOOKS	<b>“Probability on Trial: Making Sense of Arguments and Stories”</b> (w/ Rafal Urbaniak) <i>Oxford University Press</i>	under contract
JOURNAL ARTICLES	<b>“Informational Richness and Its Effects on Algorithmic Fairness”</b> (w/ Ruobin Gong) <i>Philosophical Studies</i>	forthcoming

JOURNAL ARTICLES (cont'd)	<p><b>“A Probabilistic Analysis of Cross-examination Using Bayesian Networks”</b> 2021  <i>Philosophical Issues (a supplement to Noûs)</i>, 31(1): 41-65</p> <p><b>“When Statistical Evidence Is Not Specific Enough”</b> 2021  <i>Synthese</i>, 199: 12251-12269</p> <p><b>“Profile Evidence, Fairness and the Risks of Mistaken Convictions”</b> (w/ Collin O’Neil) 2020  <i>Ethics</i>, 130(2): 147-178</p> <p><b>“Proof Paradoxes and Normic Support: Socializing or Relativizing?”</b> 2020  <i>Mind</i>, 129(516): 1269-1285</p> <p><b>“Trial by Statistics: Is a High Probability of Guilt Enough to Convict?”</b> 2019  <i>Mind</i>, 128(512): 1045-1084</p> <p><b>“Can Probability Theory Explain Why Closure Is Both Intuitive and Prone to Counterexamples?”</b> 2018  <i>Philosophical Studies</i>, 175(9): 2145-2168</p> <p><b>“Epistemic Closure, Assumptions and Topics of Inquiry”</b> 2014  <i>Synthese</i>, 191(16): 3977-4002</p>
SHORT (< 5,000 words)	<p><b>“Plausibility and Reasonable Doubt in the Simonshaven Case”</b> 2020  <i>Topics in Cognitive Science</i>, 12(4): 1200-1204</p> <p><b>“Plausibility and Probability in Juridical Proof”</b> 2019  <i>International Journal of Evidence and Proof</i>, 23(1/2): 161-167</p>
ENCYCLOPEDIA ENTRIES	<p><b>“Legal Probabilism”</b> (w/ Rafal Urbaniak) 2021  <i>Stanford Encyclopedia of Philosophy</i></p>
EDITED VOLUMES	<p><b>“Evidence and Decision Making in the Law”</b> 2020  Guest editor with Bart Verheij  <i>Artificial Intelligence and Law</i>, 28, special issue</p>
CHAPTERS/ PROCEEDINGS	<p><b>“Evidential Reasoning”</b> (w/ Bart Verheij) 2018  Bongiovanni, Postema, Rotolo, Sartor, Valentini and Walton (eds)  <i>Handbook of Legal Reasoning and Argumentation</i>, Springer</p> <p><b>“Betraying Davidson: The Quest for the Incommensurable”</b> 2009  Carrara and Morato (eds)  <i>Language, Knowledge and Metaphysics</i>, College Publications</p> <p><b>“The LKIF Core Ontology of Basic Legal Concepts”</b> (w/ Hoestra, Breuker and Boer) 2007  Casanovas, Biasiotti, Francesconi and Sagri (eds)  <i>Proceedings of the Workshop on Legal Ontologies and Artificial Intelligence Techniques</i></p>
REVIEWS	<p><b>“Douglas Walton: Argument Evaluation and Evidence”</b> (w/ Bart Verheij) 2018  <i>Argumentation</i>, 32(2)</p>
TRANSLATIONS	<p><b>“L’individualizzazione come decisione”</b> 2020  <i>Philosophical Readings</i>, 12(2) – Italian translation of Alex Biederdam, Franco Taroni and Silvia Bozza “The Decisionalization of Individualization,” <i>Forensic Science International</i>, 266</p>

TALKS  
(\* = peer-reviewed)

"Sure You Are Unsure? A Defense of Higher Order Probabilism " (w/ Rafal Urbaniak) University of Minnesota, Philosophy Colloquium	Oct 2024
"Equal Protection as Algorithmic Fairness" (w/ Loi and Cangiotti) Macalester College, Philosophy Colloquium	Oct 2024
*"Higher-Order Legal Probabilism" (w/ Rafal Urbaniak) International Conference on Forensic Inference and Statistics, Lund University	June 2023
"Gaps in the Evidence" (w/ Rafal Urbaniak) University of Groningen	June 2023
*"Causal Equal Protection and Algorithmic Fairness" (w/ Loi and Cangiotti) European Workshop on Algorithmic Fairness, Winterthur, Switzerland	June 2023
"Gaps in the Evidence" (w/ Rafal Urbaniak) Epistemology Workshop on Legal Epistemology, Orange Beach, Alabama	May 2023
"Gaps in the Evidence" (w/ Rafal Urbaniak) Legal Philosophy Trident seminar (Leeds, Pompeu Fabra, Torcuato di Tella), online	Mar. 2023
*"Causal Equal Protection and Algorithmic Fairness" (w/ Loi and Cangiotti) Philosophy and AI Society (PAIS) Workshop, Stanford University	Jan. 2023
"Accuracy and the Weight of Evidence" (w/ Rafal Urbaniak) North Sea Group (Groningen/King's College/Lund), online	Nov. 2022
"Artificial Intelligence for Judges" (w/ Giulia Lasagni) Faculty of Law, University of Lisbon	Nov. 2022
*"Cross-Examination with Bayesian Networks" BayesiaLab Conference, online	Oct. 2022
"Unanticipated Possibilities for Legal Probabilism" Michele Taruffo Evidence Week, University of Girona	May 2022
"The Conjunction Paradox" (w/ Rafal Urbaniak) Information Ethics Workshop, Northeastern University	Mar. 2022
*"Is Algorithmic Fairness Possible?" Biennial Meeting of the Philosophy of Science Association, Baltimore	Nov. 2021
"Resolving Algorithmic Fairness" (w/ Ruobin Gong) Australian National University, online	Nov. 2020
*"Is Algorithmic Fairness Possible?" – postponed Biennial Meeting of the Philosophy of Science Association, Baltimore	Nov. 2020
"Probability and Conviction" – cancelled Netherland Institute for Advanced Study	Aug. 2020
"Statistical <i>versus</i> Specific Evidence" University of California, San Diego, Halicioglu Data Science Institute	Mar. 2020
*"Varieties of Statistical Evidence" – cancelled Philosophy, Politics, and Economics Society, New Orleans	Mar. 2020

TALKS (cont'd) (* = peer-reviewed)	"Profile Evidence, Fairness and the Risks of Mistaken Convictions" University of Alabama, Department of Philosophy	Jan. 2020
	"Is Algorithmic Fairness Possible?" Rutgers University	Nov. 2019
	"Comments on Dahlman's 'Statistical Evidence and the Futility of Lawful Conduct'" University of Groningen	Nov. 2019
	"Statistics in the Courtroom: What Is Wrong With Them?" University of Nevada, Las Vegas	Feb. 2019
	"Statistics in the Courtroom: Do They Threaten the Fair Trial?" Polytechnic University of Milan	Jan. 2018
	"Rethinking the Prosecutor's Fallacy" CUNY Graduate Center, Philosophy Colloquium	Nov. 2017
	*"Does More Evidence Lead to Fewer Errors?" High Performance Computing Center, University of Stuttgart	Oct. 2017
	*"A Two-dimensional Theory of Proof Beyond a Reasonable Doubt" Truth and the Criminal Trial, University of Nottingham	June 2017
	"Statistics in the Courtroom: Do They Threaten the Fair Trial?" Institute for Advanced Study, Princeton	April 2017
	"Statistics in the Courtroom: Do They Threaten the Fair Trial?" University of Lausanne	Jan. 2017
	*"Can Probability Explain the Successes and Failures of Epistemic Closure?" XII SIFA Conference, University of Siena	Sept. 2016
	*"Fairness and Statistical Evidence" XII SIFA Conference, University of Siena	Sept. 2016
	*"Is a High Probability of Guilt Enough to Convict?" Legal Theory Research Group, University of Edinburgh	Jan. 2016
	"Is a High Probability of Guilt Enough to Convict?" International AI & Law Conference, University of San Diego	June 2015
	"Is a High Probability of Guilt Enough to Convict?" University of Bayreuth	May 2015
	"Beyond a Reasonable Doubt: Probability and Certainty in Criminal Trials" Catholic University of Milan	May 2015
	"Statistics, Eyewitnesses, and Fingerprints" International Conference on Law, Governance and Development, Bangalore	May 2012
	"The Wells Effect, Lotteries, and Newspapers" National Institute of Advanced Studies, Bangalore	Aug. 2011
	"DNA evidence: the Illusionary Precision of Numbers" Alternative Law Forum, Bangalore	Aug. 2011

TALKS (cont'd) (* = peer-reviewed)	“Individualized Evidence” Istituto Bruno Leoni, Milan		June 2010
	*“Betraying Davidson: a Quest for the Incommensurable” First SIFA Graduate Conference, University of Padua		Sept. 2007
TEACHING (* = T.A.)	ASU	Lergal probabilism	Fall 2024
		Race, Causality and Discrimination	Fall 2023
		The Common Ground	Spring 2023
		Algorithmic Fairness	Fall 2021
		Bayesian Networks in Philosophy	Spring 2021
		Philosophy of Law	Fall 2023, 2020, 2021; Spring 2021, 2022
		Ethics, Big Data and AI	Fall 2020
	CUNY, LEHMAN	Asian Philosophies	Spring 2019
		Introduction to Logic	Spring 2019, 2020
		Is the Criminal Justice System Racist?	Spring 2018
		Philosophy of Law	Spring 2015, 2016, 2020
		Legal Reasoning	Fall 2015, 2017, 2019
		Critical Reasoning	Fall 2014, 2017, 2018; Spring 2015, 2016, 2018
		Problems of Philosophy	Fall 2014, 2015, 2017, 2019
	BAYREUTH	Math on Trial	Summer 2015
		Convicting the Innocent	Summer 2016
	STANFORD	Introduction to Logic	Spring 2014
		Probability and the Law	Winter 2013, 2014
		Political Philosophy*	Spring 2010
		Ancient Greek Philosophy*	Winter 2012
		First-order Logic (up to completeness)*	Winter 2009, Spring 2011
	QINGDAO	Introduction to Statistics	Summer 2013
		Introduction to Philosophy	Summer 2013
REFEREEING	<i>Canandian Journal of Philosophy; Pacific Philosophical Quarterly; Economics and Philosophy; Noûs; Journal of Ethics &amp; Social Philosophy; Philosophical Review; Episteme; Ethics; Philosopher's Imprint; Mind; Australasian Journal of Philosophy; Journal of Moral Philosophy; Analysis; Philosophy Compass; International Journal of Evidence &amp; Proof; Philosophical Studies; Law, Probability, and Risk; Philosophical Quarterly; Philosophy of Science; Applied Ontology; Erkenntnis; Synthese: Artificial Intelligence and Law; Frontiers in Sociology</i>		
ORGANIZATION CONFERENCES/ SYMPOSIA	“Social Studies of Data” (w/ Ben Gansky) Arizona State University		Oct. 2022
	“Is Racial Equity Possible?” Lehman College, CUNY		Mar. 2019
	“Fighting Fake News with Math and Logic” Lehman College, CUNY		May 2018
	“Evidence and Decision Making in the Law” (w/ Bart Verheij) King's College London		June 2017
	“Studying Evidence in the Law” (w/ Bart Verheij) University of San Diego		June 2015

ORGANIZATION CONFERENCES/ SYMPOSIA ( <i>cont'd</i> )	"The Killing of Michael Brown and Eric Gardner" Lehman College, CUNY	May 2015
	"Trial With and Without Mathematics" (w/ Bart Verheij) Stanford Law School	May 2014
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SUPERVISION	Aubrey Spivey, "Gender and Disability within the Prison" Ph.D. Thesis in Philosophy (committee member) Arizona State University	ongoing
	Samuel Thomas, "De Re Beliefs and Evidence in Legal Cases" M.A. Thesis in Philosophy (main advisor) Arizona State University	2021
	Charles Barclay, "A New Theory of Individualized Evidence" Ph.D. Thesis in Philosophy (committee member) University of Maryland	2021
	Tera Phelps, "Horror and Slasher Films: A New Perspective" B.A. Thesis in Philosophy Lehman College	2020
	Tasmina Khair, "Philosophical Considerations of Juvenile Incarceration Trajectories from Adverse Childhood Experiences" B.A. Thesis in Philosophy Lehman College	2019
	Lillian Rosado Barreto, "The Perpetuation of Mass Incarceration" B.A. Thesis in Political Science and Philosophy Lehman College	2018
	Lino Hower, "Consequentialism and Rights" B. A. Thesis in Philosophy and Economics University of Bayreuth	2016