# MARCELLO DI BELLO

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| EDUCATION | | |
|---|---|---|
| **Stanford University**, Ph.D., Philosophy | | *2007–2013* |
| DISSERTATION: *Statistics and Probability in Criminal Trials* | | |
| **University of Amsterdam**, M.Sc., Logic | | *2005–2007* |
| M.SC. THESIS: *Formalizing Legislation in the Event Calculus* | | |
| **Catholic University of Milan**, B.A., Philosophy | | *2001–2004* |

| ACADEMIC POSITIONS | | |
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| **Arizona State University** | | *from 2020* |
| ASSISTANT PROFESSOR, *School of Historical, Philosophical & Religious Studies* | | |
| **Lehman College, City University of New York** | | *2014-2020* |
| ASSISTANT PROFESSOR, *Department of Philosophy* | | |
| **Institute for Advanced Study, Princeton** | | *2016–2017* |
| INFOSYS FELLOW, *School of Social Science* | | |
| **Stanford University** | | *2014* |
| LECTURER, *Department of Philosophy* | | |

**RESEARCH INTERESTS**

Evidence and probability; risk and decision-making; algorithmic fairness; statistics in the law

| GRANTS/ AWARDS | |
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| ASU Seed Grant | *2022–2023* |
| PSC-CUNY Research Grant | *2020–2021* |
| Faculty Fellowship Publication Program, CUNY | *2019–2020* |
| Summer Seminar in the Philosophy of Statistics, Virginia Tech | *2019* |
| PSC-CUNY Research Grant | *2016–2017* |
| Infosys Fellowship, IAS, Princeton | *2016–2017* |
| Scholar Incentive, Lehman College, CUNY | *2016–2017* |
| PSC-CUNY Research Grant | *2015–2016* |
| Huygens Scholarship, Netherlands Organization for International Cooperation | *2006-2007* |

| JOURNAL ARTICLES | |
|---|---|
| **"A Probabilistic Analysis of Cross-examination Using Bayesian Networks"** | *2021* |
| *Philosophical Issues (a supplement to Noûs)*, 31(1): 41-65 | |
| **"When Statistical Evidence Is Not Specific Enough"** | *2021* |
| *Synthese*, 199: 12251-12269 | |
| **"Profile Evidence, Fairness and the Risks of Mistaken Convictions"** (w/ Collin O'Neil) | *2020* |
| *Ethics*, 130(2): 147-178 | |
| **"Proof Paradoxes and Normic Support: Socializing or Relativizing?"** | *2020* |
| *Mind*, 129(516): 1269-1285 | |

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| JOURNAL ARTICLES *(cont'd)* | **"Trial by Statistics: Is a High Probability of Guilt Enough to Convict?"** | *2019* |
| | *Mind*, 128(512): 1045-1084 | |
| | **"Can Probability Theory Explain Why Closure Is Both Intuitive and Prone to Counterexamples?"** | *2018* |
| | *Philosophical Studies*, 175(9): 2145-2168 | |
| | **"Epistemic Closure, Assumptions and Topics of Inquiry"** | *2014* |
| | *Synthese*, 191(16): 3977-4002 | |
| SHORT *(< 5,000 words)* | **"Plausibility and Reasonable Doubt in the Simonshaven Case"** | *2020* |
| | *Topics in Cognitive Science*, 12(4): 1200-1204 | |
| | **"Plausibility and Probability in Juridical Proof"** | *2019* |
| | *International Journal of Evidence and Proof*, 23(1/2) | |
| ENCYCLOPEDIA ENTRIES | **"Legal Probabilism"** (w/ Rafal Urbaniak) | *2021* |
| | *Stanford Encyclopedia of Philosophy* | |
| EDITED VOLUMES | **"Evidence and Decision Making in the Law"** | *2020* |
| | Guest editor with Bart Verheij | |
| | *Artificial Intelligence and Law*, 28, special issue | |
| CHAPTERS/ PROCEEDINGS | **"Evidential Reasoning"** (w/ Bart Verheij) | *2018* |
| | Bongiovanni, Postema, Rotolo, Sartor, Valentini and Walton (eds) | |
| | *Handbook of Legal Reasoning and Argumentation*, Springer | |
| | **"Betraying Davidson: The Quest for the Incommensurable"** | *2009* |
| | Carrara and Morato (eds) | |
| | *Language, Knowledge and Metaphysics*, College Publications | |
| | **"The LKIF Core Ontology of Basic Legal Concepts"** (w/ Hoestra, Breuker and Boer) | *2007* |
| | Casanovas, Biasiotti, Francesconi and Sagri (eds) | |
| | *Proceedings of the Workshop on Legal Ontologies and Artificial Intelligence Techniques* | |
| REVIEWS | **"Douglas Walton:** *Argument Evaluation and Evidence***"** (w/ Bart Verheij) | *2018* |
| | *Argumentation*, 32(2) | |
| TRANSLATIONS | **"L'individualizzazione come decisione"** | *2020* |
| | *Philosophical Readings*, 12(2) – Italian translation of Alex Biederdam, Franco Taroni and Silvia Bozza "The Decisionalization of Individualization," *Forensic Science International*, 266 | |

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| TALKS *(*=peer-reviewed)* | "Accuracy and the Weight of Evidence" (w/ Rafal Urbaniak) | *November 2022* |
| | North Sea Group (Groningen/King's College/Lund), online | |
| | "Artificial Intelligence for Judges" (w/ Giulia Lasagni) | *November 2022* |
| | Faculty of Law, University of Lisbon | |
| | *"Cross-Examination with Bayesian Networks" | *October 2022* |
| | BayesiaLab Conference, online | |
| | "Unanticipated Possibilities for Legal Probabilism" | *May 2022* |
| | Michele Taruffo Evidence Week, University of Girona | |
| | "The Conjunction Paradox" (w/ Rafal Urbaniak) | *Mar. 2022* |
| | Information Ethics Workshop, Northeastern University | |

TALKS
*(cont'd )*
*(\*=peer-reviewed)*

\*"Is Algorithmic Fairness Possible?"                                                                  *Nov. 2021*
    Biennial Meeting of the Philosophy of Science Association, Baltimore

"Resolving Algorithmic Fairness" (w/ Ruobin Gong)                                                       *Nov. 2020*
    Australian National University

\*"Is Algorithmic Fairness Possible?" – postponed                                                      *Nov. 2020*
    Biennial Meeting of the Philosophy of Science Association, Baltimore

"Probability and Conviction" – cancelled                                                               *Aug. 2020*
    Netherland Institute for Advanced Study

"Statistical *versus* Specific Evidence"                                                               *Mar. 2020*
    University of California, San Diego, Halicioglu Data Science Institute

\*"Varieties of Statistical Evidence" – cancelled                                                      *Mar. 2020*
    Philosophy, Politics, and Economics Society, New Orleans

"Profile Evidence, Fairness and the Risks of Mistaken Convictions"                                     *Jan. 2020*
    University of Alabama, Department of Philosophy

"Is Algorithmic Fairness Possible?"                                                                    *Nov. 2019*
    Rutgers University

"Comments on Dahlman's 'Statistical Evidence and the Futility of Lawful Conduct'"                      *Nov. 2019*
    University of Groningen

"Statistics in the Courtroom: What Is Wrong With Them?"                                                *Feb. 2019*
    University of Nevada, Las Vegas

"Statistics in the Courtroom: Do They Threaten the Fair Trial?"                                        *Jan. 2018*
    Polytechnic University of Milan

"Rethinking the Prosecutor's Fallacy"                                                                  *Nov. 2017*
    CUNY Graduate Center, Philosophy Colloquium

\*"Does More Evidence Lead to Fewer Errors?"                                                           *Oct. 2017*
    High Performance Computing Center, University of Stuttgart

\*"A Two-dimensional Theory of Proof Beyond a Reasonable Doubt"                                        *June 2017*
    Truth and the Criminal Trial, University of Nottingham

"Statistics in the Courtroom: Do They Threaten the Fair Trial?"                                        *April 2017*
    Institute for Advanced Study, Princeton

"Statistics in the Courtroom: Do They Threaten the Fair Trial?"                                        *Jan. 2017*
    University of Lausanne

\*"Can Probability Explain the Successes and Failures of Epistemic Closure?"                           *Sept. 2016*
    XII SIFA Conference, University of Siena

\*"Fairness and Statistical Evidence"                                                                  *Sept. 2016*
    XII SIFA Conference, University of Siena

\*"Is a High Probability of Guilt Enough to Convict?"                                                  *Jan. 2016*
    Legal Theory Research Group, University of Edinburgh

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| **TALKS**<br>*(cont'd )*<br>*(*=peer-reviewed)* | "Is a High Probability of Guilt Enough to Convict?"<br>    International AI & Law Conference, University of San Diego | *June 2015* |
| | "Is a High Probability of Guilt Enough to Convict?"<br>    University of Bayreuth | *May 2015* |
| | "Beyond a Reasonable Doubt: Probability and Certainty in Criminal Trials"<br>    Catholic University of Milan | *May 2015* |
| | "Statistics, Eyewitnesses, and Fingerprints"<br>    International Conference on Law, Governance and Development, Bangalore | *May 2012* |
| | "The Wells Effect, Lotteries, and Newspapers"<br>    National Institute of Advanced Studies, Bangalore | *Aug. 2011* |
| | "DNA evidence: the Illusionary Precision of Numbers"<br>    Alternative Law Forum, Bangalore | *Aug. 2011* |
| | *"Betraying Davidson: a Quest for the Incommensurable"<br>    First SIFA Graduate Conference, University of Padua | *Sept. 2007* |

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| **TEACHING**<br>*(*=T.A.)* | ASU | The Common Ground | *Spring 2023* |
| | | Algorithmic Fairness | *Fall 2021* |
| | | Bayesian Networks in Philosophy | *Spring 2021* |
| | | Philosophy of Law | *Fall 2020, 2021; Spring 2021, 2022* |
| | | Ethics, Big Data and AI | *Fall 2020* |
| | 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* |

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| **REFEREEING** | *Pacific Philosophical Quarterly; Economics and Philosophy; Noûs; Journal of Ethics & Social Philosophy; Philosophical Review; Episteme; Ethics; Philosopher's Imprint; Mind; Australasian Journal of Philosophy; Journal of Moral Philosophy; Analysis* (×2); *Philosophy Compass; International Journal of Evidence & Proof; Philosophical Studies* (×3); *Law, Probability, and Risk; Philosophical Quarterly; Philosophy of Science* (×2); *Applied Ontology; Erkenntnis; Synthese* (×4); *Artificial Intelligence and Law* (×3); *Frontiers in Sociology* |

| ORGANIZATION CONFERENCES/ SYMPOSIA | "Social Studies of Data" (w/ Ben Gansky)<br>    Arizona State University | *October 2022* |
| | "Is Racial Equity Possible?"<br>    Lehman College, CUNY | *March 2019* |
| | "Fighting Fake News with Math and Logic"<br>    Lehman College, CUNY | *May 2018* |
| | "Evidence and Decision Making in the Law" (w/ Bart Verheij)<br>    King's College London | *June 2017* |
| | "Studying Evidence in the Law" (w/ Bart Verheij)<br>    University of San Diego | *June 2015* |
| | "The Killing of Michael Brown and Eric Gardner"<br>    Lehman College, CUNY | *May 2015* |
| | "Trial With and Without Mathematics" (w/ Bart Verheij)<br>    Stanford Law School | *May 2014* |

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| SUPERVISION | Samuel Thomas, "De Re Beliefs and Evidence in Legal Cases"<br>    M.A. Thesis in Philosophy (main advisor)<br>    Arizona State University | *2021* |
| | Charles Barclay, "Formal Tools in the Law"<br>    Ph.D. Thesis in Philosophy (committee member)<br>    University of Maryland | *2021* |
| | Tera Phelps, "Horror and Slasher Films: A New Perspective"<br>    B.A. Thesis in Philosophy<br>    Lehman College | *2020* |
| | Tasmina Khair, "Philosophical Considerations of Juvenile Incarceration Trajectories from Adverse Childhood Experiences"<br>    B.A. Thesis in Philosophy<br>    Lehman College | *2019* |
| | Lillian Rosado Barreto, "The Perpetuation of Mass Incarceration"<br>    B.A. Thesis in Political Science and Philosophy<br>    Lehman College | *2018* |
| | Lino Hower, "Consequentialism and Rights"<br>    B. A. Thesis in Philosophy and Economics<br>    University of Bayreuth | *2016* |