

Matilde Dolfato

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EDUCATION	Bocconi University, Milan, Italy M.Sc. Artificial Intelligence · Courses: Linear Algebra, Algorithms for Opt and Inference, Software Eng, Deep and Reinforcement Learning, NLP, Computer Vision, Infomation Thoery	Sep 2024–Present
	B.Sc. Economic and Social Sciences · Advised by Prof. Jérôme Adda · Final work: <i>Can Machine Learning Aid Econometrics?</i>	2021–2024
	Universitat Pompeu Fabra, Barcelona, Spain Exchange Program	2024
	Università degli Studi di Milano Statale B.Sc. Biotechnology, Single Courses	2022–2023
EXPERIENCE	Research fellow <i>NOVA Information Management School, Lisbon</i> · Supervisor: Prof. Mauro Castelli · Research area: explaining <i>double descent</i> phenomenon, what underlies stochastic gradient descent preference for smoothness, what is smoothness	Nov 2025–Present
	Visiting Student <i>Bocconi Institute for Data Science and Analytics (BIDSA)</i> · Mentor: Prof. Elia Brué · Research area: Ricci curvature bounds for discrete spaces, optimal transport, convergence of diffusion processes and functional inequalities in spectral theory · Two presentations (1 , 2) to the Stats and Maths reading group within BIDSA	Apr 2025–Nov 2025
	Founding and Board Member, Co-Head Pure Math Division <i>Bocconi Student Association for Mathematical Sciences</i> · Aim: introduce Bocconi students to mathematical sciences, through conferences with professors, collaborative study and chats	Sep 2025–Present
	Reading Seminars Information Geometry Research Internship Algebraic Topology <i>Department of Decision Sciences, Bocconi</i>	Spring 2025 Spring 2025
	Research Assistant <i>Innocenzo Gasparini Institute for Economic Research, Bocconi</i> · Mentor: Prof. Massimo Marinacci · Research area: re-interpretation and adaptation of the first quantitative analysis in social sciences by Cesare Beccaria (with tools of probability and decision theory)	Jun 2023–Dec 2023
SELECTED PROJECTS	saLM-1: Self-Aware Language Model Ensemble (LLM ensemble architecture) Adversarial Robustness Pipeline (CNN adversarial training) Wordle Guesser (Entropy-based guesser) Movie Recommendation System (Web app)	
SKILLS	Programming: Python (proficient), R, STATA (advanced), C, C++ (beginner) Languages: Italian (native), English (proficient), Spanish (advanced)	
OTHER INTERESTS	Sailing, surfing, windsurfing; volleyball (ex-professional); mountain hiking and skiing; piano; theater and cinema	