# Giacomo Cirò

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## Education

**Bocconi University** *September 2024 - present*

*MSc in Computer Science (Artificial Intelligence)* Milan, Italy

- GPA: 30.4/30 (top 1/40+).
- Recipient of Bocconi Graduate Merit Award (36,000 €, full tuition waiver based on academic performance).
- Relevant coursework: Software Engineering, Mathematical Methods in Computer Science, Optimization, Deep Learning, Reinforcement Learning, Computer Vision, Natural Language Processing, Information Theory, Financial Markets Microstructure.

**Bocconi University** *September 2021 - July 2024*

*BSc in Economics and Computer Science* Milan, Italy

- Grade: 110 *Cum Laude* (highest possible, final GPA 29.8/30).
- Thesis on gene expression modeling with deep learning, supervised by professor Francesca Buffa (then, hired as a researcher at the same lab).
- Relevant coursework: Machine Learning, Computer Programming, Information Theory, Linear Algebra, Calculus, Complex & Fourier Analysis, Probability, Statistics, Big Data & Databases, Game Theory, Mechanism Design, Econometrics, Principles of Finance, Microeconomics, Macroeconomics.

## Experience

**Lexroom.ai** *June 2025 - September 2025*

*Machine Learning Engineer* Milan, Italy

- Selected as the sole Machine Learning Engineer for a legal tech startup (hire n. 30, top 1% startup by growth), contributing to the development of an AI-powered assistant for legal professionals.
- Developed a recursive algorithm for real-time quote monitoring, and reduced quotes hallucination from 13% to 0%.
- Engineered an ETL pipeline to construct a Neo4j knowledge graph from 5,000+ unstructured Italian Supreme Court's rulings and implemented an out-of-core PageRank algorithm for node relevance scoring.

**Bocconi Institute for Data Science and Analytics (BIDSA)** *March 2024 - present*

*Machine Learning Researcher* Milan, Italy

- Secured two research contracts for the ERC-funded MicroC project, under professor Francesca Buffa's guidance.
- Designed and developed a novel model architecture that combines prior biological knowledge and insights from AlphaFold 2 for gene expression modeling.
- Earned guest researcher status at the AIRC Institute for Molecular Biology to access additional resources.
- Utilized SLURM, Anaconda and Singularity to work on two HPC clusters.
- Used TileDB for efficient out-of-core access and manipulation of 500+ GB of RNA sequencing data.
- Presented our research on transcriptomics scaling laws at CIBB 2025.

**Bocconi Students for Machine Learning (BSML)** *June 2023 - present*

*Co-founder, Vice-President* Milan, Italy

- Built the first machine learning community at Bocconi University from 0 to 60+ active members and 120+ alumni.
- Built and maintained the association's website, managing multiple contributors (Gitflow, PRs and protection rules).
- Published 16 projects and executed 9 events with external speakers (10+ speakers, 300+ attendees in total).
- Hosted a tutorial session on the use of Bocconi's HPC cluster.
- Organized and promoted 4 hackathons, including one with 30 participants (70+ applications), a 150 € prize, and partnership with Boston Consulting Group X (BCG-X), The HackLab Bocconi and Bocconi For Innovation (B4I).
- Launched and led the "Transfer Learning Program", a student mentorship initiative connecting undergraduate students with older peers to facilitate university and early professional life. Mentoring three students.

## Additional Information

- **Skills**: Python, C; NumPy, Pandas, PyTorch; Git, Linux; English (C1 - Fluent - IELTS 8.0), Italian (Native).
- **Community Involvement & Volunteering**: AGESCI boy-scout for over 10 years. Summer camp animator and cook. Mentee at Lead the Future. Fellow at EuroTech Federation. Quant Developer at Bocconi Students Investment Club. Podcast host at AI AI che male che mi fai.
- **Open-source Contributions**: Fixed errors in the Understanding Deep Learning textbook by Simon J.D. Prince (The MIT Press, 2023). Fixed a bug in TileDB-Vector-Search, a library for efficient out-of-core vector search. Contributed to the Conda package manager.
- **Sport, Interests and more**: I played rugby in major italian leagues from 2010 to 2023, I now practice boxe. I enjoy running fast (21 km in 1hr:50min and 10 km in 44min) and typing fast (141 words/minute at monkeytype.com). I minted an NFT collection on OpenSea.