

# Giacomo Cirò

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## EDUCATION

### Bocconi University

MSc in Computer Science (Artificial Intelligence)

September 2024 - present

Milan, Italy

- GPA: 30.43/30 (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

BSc in Economics and Computer Science

September 2021 - July 2024

Milan, Italy

- Grade: 110 *Cum Laude* (highest possible).
- 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

Machine Learning Engineer

June 2025 - September 2025

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.
- Built and maintained the association's website, managing multiple contributors systematically (Gitflow, PRs and protection rules).
- Supervised and directed the publication of 3 articles and 3 projects.
- Planned and executed 6 events with external speakers (10+ speakers, 200+ attendees in total).
- Hosted a tutorial session on the use of Bocconi's HPC cluster.
- Organized a hackathon with 30 participants (70+ applications) and 150 € prize, in 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. Mentored 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 Researcher at

### Bocconi Students Investment Club

- **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.