# Giacomo Cirò

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## EDUCATION

**Bocconi University**      *September 2024 - present*
*MSc in Artificial Intelligence*      Milan, Italy

- GPA: 30.43/30.
- 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, Partial Differential Equations, Complex Systems and Physical Models, Microstructure of Financial Markets.

**Bocconi University**      *September 2021 - July 2024*
*BSc in Economics and Computer Science*      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**      *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.
- Reduced client-facing model hallucination from 13% to 0% by developing a lightweight solution for real-time quote quality monitoring.
- Identified and resolved critical bugs in the production system, improving API cost tracking and efficiency.

**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, contributing to advanced gene expression modeling 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 a contract as guest researcher at IFOM to access additional computational 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.

**Bocconi Students for Machine Learning (BSML)**      *June 2023 - present*
*Co-founder, Vice-President*      Milan, Italy

- Screened and interviewed 60+ candidates.
- 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.
- Conceived, developed and promoted the "Thesis Repo" to collect and make BSc theses available for free consultation.
- 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).

## ADDITIONAL INFORMATION

- **Skills**: Python, C/C++, R, SQL; NumPy, Pandas, scikit-learn, TensorFlow, PyTorc; Git, Linux/Unix, Microsoft Excel; Mathematical Modeling, Probability Theory, Linear Algebra, Optimization, Data Structures & Algorithms, Parallel Computing, Object-Oriented Programming (OOP).

- **Languages**: English (C1 - Fluent - IELTS 8.0); Italian (Native); Spanish (B1 - Basic).

- **Community Involvement & Volunteering**: AGESCI boy-scout for over 10 years. Summer camp animator and cook at boy-scout summer camps.

- **Sport**: Rugby player 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.

- **Interests and more**: I'm good at typing fast (141 words/minute at monkeytype.com).