

ALESSANDRO MOROSINI

Cambridge, MA

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RESEARCH INTERESTS

Machine Learning and Optimization; Interpretable and Safe AI; Causal Inference; High-Dimensional Learning; Decision-Making under Uncertainty; Large Language Models and Reasoning.

EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

PhD, Operations Research Center (ORC)

Aug. 2025 – Present

- Research in machine learning and optimization, advised by Prof. Georgia Perakis and Prof. Chara Podimata.
- *Relevant coursework*: Linear Optimization; Statistical Learning Theory.

Massachusetts Institute of Technology

Cambridge, MA

Master of Business Analytics (MBA)

Aug. 2024 – Aug. 2025

- Final GPA: 4.9/5
- *Relevant coursework*: Machine Learning (I, II, III); Optimization Methods; Bayesian Methods; Generative AI; Deep Learning; Analytics.

Bocconi University

Milan, Italy

BSc in Economics, Management and Computer Science (BEMACS)

Sep. 2021 – Jul. 2024

- Final GPA: 30.2/30.
- *Relevant coursework*: Mathematics (I, II); Statistics (I, II); Computer Science (I, II); Machine Learning; Econometrics; Game Theory (I, II).
- Thesis: *Statistical Models for Survival Data Theory and Applications*, advised by Prof. Antonio Lijoi.

EXPERIENCE

Massachusetts Institute of Technology

Cambridge, MA

Research Assistant

Sep. 2024 – Present

- Developed *ModuLearn*, an interpretable framework for incorporating gene expression data; submitted for peer review.
- Running large-scale experiments with LLM agents to simulate social behavior and measure algorithmic bias on Twitter.
- Investigating correlation-based clustering methods for high-dimensional data for feature selection.

Lineage Logistics

Cambridge, MA

Machine Learning Engineer — Capstone Project

Feb. 2025 – Aug. 2025

- Built an LLM-based pipeline for entity and relation extraction from emails to create knowledge graphs and ontologies.
- Implemented an LLM-as-a-judge framework to evaluate consistency and schema alignment of extracted graphs.

Balyasny Asset Management

Cambridge, MA

Data Scientist — Analytics Lab Project

Sep. 2024 – Dec. 2024

- Researched atmospheric condition data and the impact of noise in auto-regressive models.
- Developed a model incorporating realistic initial-state noise perturbations that outperformed Google GraphCast.

UniCredit

Milan, Italy

Data Science Intern

Sep. 2022 – Mar. 2023

- Developed “PeerPair”, a graph-theory-based ML algorithm to identify new potential clients.
- Presented the algorithm to the Head of Analytics and AI Products.

PUBLICATIONS

- **ModuLearn: An interpretable transcriptomic framework for cancer outcome prediction**
Authors: M. Gjika*, A. Morosini*, M. Panagopoulou, A. Mertziou, K. Chatzaki, G. Perakis. *Preprint*, 2025.

HONORS AND AWARDS

- **MIT MBAn Best Student Researcher**
MIT Sloan School of Management, 2025.

- **Bocconi Graduate Merit Award**
Università Bocconi, 2024.
- **Full-ride Exchange Scholarship**
University of Southern California, 2024.

ADDITIONAL INFORMATION

- **Programming**
Python, Julia, R, Stata
- **Software Tools:**
PyTorch, TensorFlow, scikit-learn, DSPy, LangChain, Gurobi, SQL
- **Languages**
Italian (native), English (fluent), Spanish (intermediate)
- **Passions**
Soccer (former professional player for Parma FC), art, traveling, and meeting new cultures.