

ALESSANDRO MOROSINI

Cambridge, MA

📞 +1 (857) 639-0915 | 📧 morosini@mit.edu | 💬 linkedin.com/in/alessandro-morosini | 🌐 morosini.mit.edu

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 <i>PhD, Operations Research Center (ORC)</i>	Cambridge, MA <i>Aug. 2025 – Present</i>
• Research in machine learning and optimization, advised by Prof. Georgia Perakis and Prof. Chara Podimata.	
• <i>Relevant coursework:</i> Linear Optimization; Statistical Learning Theory.	
Massachusetts Institute of Technology <i>Master of Business Analytics (MBAn)</i>	Cambridge, MA <i>Aug. 2024 – Aug. 2025</i>
• Final GPA: 4.9/5	
• <i>Relevant coursework:</i> Machine Learning (I, II, III); Optimization Methods; Bayesian Methods; Generative AI; Deep Learning; Analytics.	
Bocconi University <i>BSc in Economics, Management and Computer Science (BEMACS)</i>	Milan, Italy <i>Sep. 2021 – Jul. 2024</i>
• Final GPA: 30.2/30.	
• <i>Relevant coursework:</i> Mathematics (I, II); Statistics (I, II); Computer Science (I, II); Machine Learning; Econometrics; Game Theory (I, II).	
• Thesis: <i>Statistical Models for Survival Data Theory and Applications</i> , advised by Prof. Antonio Lijoi.	

EXPERIENCE

Massachusetts Institute of Technology <i>Research Assistant</i>	Cambridge, MA <i>Sep. 2024 – Present</i>
• Developed <i>ModuLearn</i> , 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 <i>Machine Learning Engineer — Capstone Project</i>	Cambridge, MA <i>Feb. 2025 – Aug. 2025</i>
• 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 <i>Data Scientist — Analytics Lab Project</i>	Cambridge, MA <i>Sep. 2024 – Dec. 2024</i>
• 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 <i>Data Science Intern</i>	Milan, Italy <i>Sep. 2022 – Mar. 2023</i>
• 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. Mertzios, 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.