

**EDUCATION****UNIVERSITY OF OXFORD***Master of Science in Statistical Science**Oxford, United Kingdom**Sep 2024 – Sep 2025 (expected)*

- **Relevant Coursework:** Statistical Machine Learning, Applied Statistics, Statistical Inference, Statistical Programming, Computational Statistics, Stochastic Models in Mathematical Genetics, Simulation Methods, Graphical Models, Bayes Methods

**BOCCONI UNIVERSITY***Bachelor of Science in Economics, Management and Computer Science**Milan, Italy**Sep 2021 – Jul 2024*

- Grade: 110/110 Cum Laude
- **Relevant Coursework:** Machine Learning, Computer Programming, Computer Science, Big Data and Databases, Calculus, Probability, Statistics, Linear Algebra, Microeconomics, Macroeconomics, IT Law, Accounting, Game Theory, Econometrics
- Thesis: “Bayesian Optimization for Database Management”

**GEORGIA INSTITUTE OF TECHNOLOGY***Exchange Semester, Computer Science and Economics**Atlanta, Georgia, USA**Jan 2024 – May 2024*

- Grade: 4.0/4.0
- Relevant Coursework: Understanding Markets with Data Science, Network Science, Labor Economics

**EXPERIENCE****AMAZON***Business Intelligence Engineer Intern (Python, SQL, Git, AWS (Redshift, S3, Lambda, QuickSight))**Luxembourg, Luxembourg**Jun 2023 – Nov 2023*

- Identified and corrected inefficiencies in warehousing strategies through data mining techniques
- Developed machine learning models to optimise the performance of several Database Management Systems (DBMSs), reducing their running time by up to 75%, and helping to achieve an estimated reduction in costs of €14 million
- Designed data pipelines that automate the collection of data through various AWS applications

**BOCCONI STUDENTS FOR MACHINE LEARNING (BSML)***President & Co-Founder (Python, Graph Theory, Events Organization and Management)**Milan, Italy**Jun 2023 – Jun 2024*

- <https://www.bsmachinelearning.com/>
- Managed 100+ members and led two research groups
- Organised hackathons and machine learning events (e.g., tech interns experience, discussions about papers)

**DELOITTE***Cyber Security Analyst Intern (Prophet, Archer, Python, Git)**Milan, Italy**Jan 2023 – Apr 2023*

- Worked in the actuarial division
- Used statistical techniques to quantify the client's cybersecurity risks, increasing accuracy in prediction by 26%

**EXTRACURRICULAR ACTIVITIES & ASSOCIATIONS**

Nova Talent Member | LeadTheFuture Mentorship Mentee | Bocconi University Student Ambassador | B.Cyber Researcher | Bocconi Students for Digital Transition Head of Marketing | Bocconi Students for Data Science Associate | Luiss EnLabs Service Learner | Associazione Italiana Malati di Cancro Associate | Banca d'Italia Service Learner | Model UN Delegate

**RESEARCH INTERESTS**

**Automated Tuning of Database Management Systems (DBMSs)** Exploring how machine learning and advanced statistical methods can be used to optimise DBMSs settings (*linked to Amazon*)

**Bayesian Optimisation** Researching ways to optimise complex black-box functions (*linked to Amazon and undergraduate thesis*)

**Network Science** Investigating algorithms for network analysis and modelling (*linked to Bocconi Students for Machine Learning*)

**SELECTED PROJECTS**

**Missing Knowledge Links** My team and I developed an algorithm that, starting from an input Internet page, builds a network of all connected pages, up to a certain depth. The algorithm later identifies pages that, although not connected among them, share many neighbours. The aim was to identify knowledge that may be used in certain fields where it is currently not employed

**Model Predicting House Prices** I trained different ML models using data on houses for sale and points of interest close to them

**Tic-tac-toe with Reinforcement Learning** I trained an AI to play tic-tac-toe using reinforcement learning

**ADDITIONAL INFORMATION**

**Technical Skills** Python (Boto3, Scikit-learn, PyTorch, Pandas), R, SQL, AWS, LaTeX, KNIME, Options Algorithmic Trading

**Udemy Courses** Optimization problems and algorithms, Python for Finance and Algorithmic Trading, Web Scraping in Python

**Standardized Tests** GRE 331 (168 Quant, 163 Verbal, 4.0 AWA), IELTS 8.0

**Interests** Philosophy, Geography, Running, Gym Training, Scuba Diving, Calisthenics, Translations from Latin and ancient Greek