

KEVIN MANCINI

Mathematician and Computer Scientist

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My passion for discovery defines my approach to both work and life. Whether tackling a partial differential equation or testing my limits through deep-sea diving and alpine climbing, I thrive on challenges that demand perseverance and creative problem-solving. As an aspiring researcher in mathematics, I am dedicated to exploring unsolved problems, particularly at the intersection of mathematics and computer science.

EDUCATION

SAPIENZA UNIVERSITY OF ROME

Rome, IT

MSc Applied Mathematics and Theoretical Physics

2024 - Present

- Specializing in stochastic calculus. Received honourable Mention at International Math Competition.

IMPERIAL COLLEGE LONDON

London, UK

MSc Advanced Computing – Major in Artificial Intelligence & Mathematics

2023 - 2024

- GPA 4.0/4.0 (average 86.7%). Oral paper at MICCAI workshop and under review paper at IEEE TPAMI.
- Splunk Prize for best thesis in AI - DeltaGNN: Graph Neural Network with Information Flow Control.

ALMA MATER STUDIORUM – UNIVERSITY OF BOLOGNA

Bologna, IT

BSc in Computer Science and Engineering

2018 - 2021

- GPA 3.88/4.0 (top 2% class). Final Grade: 110/110 cum laude. Erasmus Scholarship (ranked 1st/23).

RESEARCH & PROJECTS

Lead Researcher – IX (AI Innovation center at Imperial College London)

2024 - Present

- Designed novel topology-aware graph neural network in Python (under review paper at IEEE TPAMI).
- Achieved average accuracy increase of 4.72% and avg reduction in training time of 30.61%.

Student Researcher – Deep Learning & Topology

2023 - 2024

- Developed curvature-based deep neural network for medical imaging (oral presentation at MICCAI workshop).

Developer – Mathematical Graphic Engine

2019 - 2019

- Built a Windows/Unix desktop app in Java to graphically represent complex 2D/3D functions.
- Capable of rendering 70 million points of a complex 3D function in under 1 second using parallel computing.

WORK EXPERIENCE

DELOITTE

Milan, IT

Business Analyst & Developer, Full Time

2022 - 2023

- Designed and developed a financial planner, led client meetings online and in-person.
- Reduced development time of OSBs to 1/5 by automating processes with Python, saving 15 working days.
- Dealt with Agile, Microservices, AWS Cloud, APIs, Spring Boot, Oracle BD, Redis, Docker, OpenShift.

CRIF

Bologna, IT

Global FinTech & Analytics Company

2021 - 2021

Software Engineer, Intern

- Winner of “CRIF GT Smart Up Internship” competition (top 16/120 students).
- Reduced SQL Server installation time by 80% using Ansible and Jenkins automation.

SKILLS

Coding: Java, Python, C, MATLAB, Scala, C++, HTML, CSS, PHP, SQL, LaTeX, CUDA, OpenCL, XQuery, Assembly.

Expertise: Data Science, Cloud, Microservices, Agile, Machine Learning, Cryptography, IoT, Databases, HPC, GitFlow.

INTERESTS & ACHIEVEMENTS

Adventurer & Polymath

Mountaineer, Climber, Volunteer at the Italian Alpine Club since 2017, Scuba diver, Avid reader, Cuber, Math enthusiast.

Personal Achievements

Funded my tuition through scholarships and part-time jobs, helped my mother learn English.