KEVIN MANCINI

Mathematician and Computer Scientist

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My passion for discovery define 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 in 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, statistical mechanics. 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 ML - 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 (placed 1st/23).

RESEARCH & PROJECTS

Researcher – Information Flow Control on Graph Neural Networks *2024 - Present*
- Lead author of paper under review at IEEE TPAMI. Designed novel topology-aware deep learning model in Python.
- Achieved avg accuracy increase of 4.72% and avg reduction in training time of 30.61% compared to SOTA methods.

Researcher – Graph Homophily and Heterophily Interaction-Decoupling in Medical Imaging *2023 - 2024*
- Oral presentation at MICCAI 2024 workshop, Developed curvature-based graph neural network at I-X hub

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 to 1/5 the developing time of OSBs using an automation script in 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 by 80% the installation time of a SQL Server using automation with Ansible and Jenkins

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
Paid tuition fees with savings from scholarships and jobs since high school, helped my mother learn English