

# KEVIN MANCINI

*Mathematician and Computer Scientist*

Flat 19 Edith Villas, W14 9AA London – +39 351 4425753 – kevinmanciniciao@gmail.com

## EDUCATION

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### 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 ICLR 2025.
- Thesis: Graph Neural Network with Information Flow Control and Interaction-Decoupling Module.

### 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 cum laude. Awarded 3 merit scholarships.
- Erasmus Scholarship (placed 1<sup>st</sup>/23). Selected among top 40 most promising students to innovate the Alma Mater.

## RESEARCH & PROJECTS

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### *Researcher – Information Flow Control on Graph Neural Networks*

2024 - Present

- Lead author of paper under review at ICLR 2025. 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

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### 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

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**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

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### *Adventurer & Polymath*

Mountaineer (summitted 7 Alpine peaks this year), Climber (fell over 1000 times), Volunteer at the Italian Alpine Club since 2017. Scuba diver (personal depth record: 33 meters), Avid reader (read 100+ books this year). Math enthusiast.

### *Personal Achievements*

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