Alessandro Barbini

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Education
MSc Engineering Mathematics, Merit | University of Bristol 2023
BSc Mathematics, First Class Honours | University of Southampton 2022

Award: Dean's List 2021 - Top 5% students.

Work Experience

Graduate Research Assistant, Cambridge, UK | University of Cambridge | September - December 2023
Worked at the ISAAC national institute of Mathematical Sciences in researching, implementing and solving complex advanced stochastic models. The process involved the high technical application of advanced mathematical techniques as well as the translation of models into computer code. The successful research project led to an expected publication of the work in 2024.

Research project in collaboration with Sagentia Innovation | University of Bristol | January – April 2023
Worked with my MSc course fellows to analyse the behaviour of magnetic mirrors and blurring images. We applied mathematical and computational methods to understand the behaviour of reflecting waves under small values of skin depth and electrical conductivity. The successful analysis led to the development of an efficient way of calculating the point spread function for reflected magnetic fields.

Extracurricular Activities

Beekeeping Assistant, Fabro, IT | Summer 2020 & 2021 & 2022
Experienced in all aspects of beekeeping, from hive maintenance to honey extraction. Proficient in identifying and addressing beehive health issues, with a solid commitment to sustainable practices.

Volunteer Care Project, Cape Town, South Africa | Summer 2018
Through teaching and supporting teachers in a township school, I gained practical experience in sharing knowledge and assisting with daily tasks, from academics to hygiene and food preparation.

Construction Worker – Internship, Orvieto, IT | Local Decorating firm | Summer 2016 & 2017 & 2018
I interned for three summers, where I had to be precise, reliable, self-disciplined and I learned to work well under pressure.

Coding Skills
Programming: Beginner: Java, Jason | Intermediate: MATLAB, R & RStudio, Weka |
Proficient: Python, Mathematica
Operating Systems: MacOs, Linux, Microsoft Windows

Languages
English: Professional, technical, and social fluency |Italian: Fluent native tongue

Other interests
Beekeeping | Italian cuisine | Motorsport & football | Art
Reading: History, Biography, Novels, Science