

Education

Trinity College, University of Cambridge Engineering BA and MEng Grades: 4th out of 323 in University of Cambridge and 1st in Trinity College for Part IA (799/900) Elected Senior Scholar and received the Garrett Fund Prize, for exam performance	Expected 2027 2024
53rd International Physics Olympiad Silver Medal — 55th out of 400+ contestants (32/50) 1st in the UK for the British Physics Olympiad Round 3 and NPL Theoretical Physics Prize	2023
Nottingham High School 4 A* in Further Mathematics, Mathematics, Physics and Chemistry Distinction in British Mathematics Olympiad (33/60) and full marks in the Senior Maths Challenge Gold in the UK Chemistry Olympiad Round 1 (72.5/86) Qualified for the International Chemistry Olympiad UK team selection camp	2023

Experience and Projects

Snake Game Project <ul style="list-style-type: none">• Wrote a 500 line OOP-based implementation of the popular game Snake in C++• Stored data through extensive use of the STL. Used OpenGL for rendering game graphics• Included several features into the UI, such as toggleable help prompts.	September 2024
Sepal AI Consultant — Physics Specialist <ul style="list-style-type: none">• Solved and wrote 8 advanced physics questions for an AI reasoning evaluation dataset• Streamlined objectives with client AI lab via reviewal feedback loops	Remote August 2024
British Physics Olympiad Lecturer <ul style="list-style-type: none">• Delivered a 2 hour lecture on AC theory to the top 14 students in the British Physics Olympiad• Wrote 20 pages of mathematically rigorous supplementary notes with \LaTeX• Tutored a student who subsequently qualified for the International Olympiad of Astronomy and Astrophysics UK team selection camp	Oxford April 2024

Extra-Curricular Courses and Societies

Stanford CS229 - Machine Learning <ul style="list-style-type: none">• Rigorous and mathematical coverage of Machine Learning, including supervised and unsupervised models, ranging from GLMs and SVMs to Neural Networks and A2C algorithms.	January 2025
IBM Quantum Learning <ul style="list-style-type: none">• Introduced to the basics of quantum information, algorithms and applications of entanglement.	January 2025
MIT 18.S096 - Matrix Calculus for Machine Learning and Beyond <ul style="list-style-type: none">• Introduced to backpropagation and autodifferentiation, and applications to gradient descent.• Extensive exploration of computational and mathematical concepts, such as finite differences.	August 2023
Trinity College Engineering Society President <ul style="list-style-type: none">• Organising several speaker events and socials for Trinity engineers.• Reaching out to companies for potential sponsors of the society.• Efficiently managing the committee workload and aligning team interests.	Cambridge October 2023 – Present

Skills

Technical: Python, NumPy, Matplotlib, Pandas, Pytorch, QisKit, C++, OpenGL, STL, SolidWorks 2022, \LaTeX
Language: English (Native fluency), Chinese (Conversational fluency)