

Coy Zhu

Engineering Undergraduate at Trinity College, University of Cambridge.

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Education

Trinity College, University of Cambridge	Cambridge
Engineering BA and MEng	2023-2027
Grades: 3rd out of 24 in Trinity College for Lent Term Progress Test (92%)	2024
53rd International Physics Olympiad	Tokyo
Silver Medal, 55th out of 400+ contestants (64%)	2023
1st in the UK for the British Physics Olympiad Round 3 and NPL Theoretical Physics Prize	
Nottingham High School	Nottingham
4 A* in Further Mathematics, Mathematics, Physics and Chemistry	2016-2023
Distinction in British Mathematics Olympiad Round 1 (33/60) and full marks in the Senior Maths Challenge	
Gold in the UK Chemistry Olympiad Round 1 (84%) and qualified for the International Chemistry Olympiad UK team selection camp	

Experience and Projects

British Physics Olympiad	Oxford
Lecturer	April 2024
<ul style="list-style-type: none">Delivered a 2 hour lecture on AC theory and applications to the top 14 students in the British Physics Olympiad.Written self-made notes with \LaTeX(not yet available online).Tutored a student who subsequently qualified for the International Olympiad of Astronomy and Astrophysics UK team selection camp.	
Flood Warning System	Cambridge
Software Engineer	January 2024 - March 2024
<ul style="list-style-type: none">Coded a real-time flood warning system library using python.Used GitHub version control to enable effective teamwork.	
Orbyts AGN Research Paper	Nottingham
Student Researcher	October 2022 – April 2023
<ul style="list-style-type: none">Analysed data of active galactic nuclei from the XMM Newton X-ray telescope using Python.Published results and conclusions in the Astronomy Theory, Observations and Methods Journal.Delivered a final remote presentation detailing some theoretical aspects and results.	

Leadership & Activities

Cambridge University Space Flight	Cambridge
Computational Fluid Dynamics Engineer	January 2024 – Present
<ul style="list-style-type: none">Learning COMSOL in a team to model aerodynamic flutter of rocket fins.	
Trinity College Engineering Society	Cambridge
Freshers' Representative	October 2023 – Present
<ul style="list-style-type: none">Representing first year engineering undergraduates at Trinity College in social and academic matters.Organising engineering freshers' events according to student desires.	

Skills & Interests

Technical: Python, COMSOL, Solidworks 2022, \LaTeX , Microsoft Office

Language: English (Native fluency), Chinese (Conversational fluency)

Interests: Saxophone (dipABRSM) and violin (Merit Grade 8) player, Jazz enjoyer, Badminton enthusiast