

EDUCATION & AWARDS

University of Oxford, St. Hilda's College - MPhys Physics	2019 - 2023
<ul style="list-style-type: none"> - 86% first year average - St. Hilda's College Scholarship in Physics (academic scholarship based on performance) - Crankstart Scholar (widening participation scholarship based on household income) - Apollo Scholar (widening participation scholarship based on academic performance) - Peer Supporter (Trained student welfare role) 	
d'Overbroeck's Sixth Form	2021 - Present
- 5 A Levels: Maths - A*, Further Maths - A*, Economics - A*, Physics - A*, French - B	2016 - 2018
Oulder Hill Community School	2016
- 11 GCSEs A*-A including English, Maths, and Science	

EXPERIENCE

Pupil Misconceptions: Circuits & Voltage (Report author)	Jan 2021 - Apr 2021
<ul style="list-style-type: none"> - Conducted research into electrical misconceptions using 2 secondary school physics cohorts - Evaluated existing teaching against further educational research in electronics - Identified key areas in which pupils struggle in dealing with circuits - Provided recommendations to partner school to bolster their GCSE physics programme 	
The Brilliant Club (Charity and Development Intern)	Dec 2020
<ul style="list-style-type: none"> - Aided the design of a maths program based upon cartesian geometry for secondary students - Designed and recorded a physics presentation based on heat engines targeted at A level students - Reviewed diversity provisioning and made recommendations for more inclusive operations 	
OxFizz (Widening Participation Intern)	Aug 2020
<ul style="list-style-type: none"> - Created a month long research report on barriers for disadvantaged Oxbridge applicants with 2 other interns - Conducted research through provider interviews and student questionnaires distributed to ~ 500 students - Investigated existing access provisioning and identified lacks therein, presenting these gaps graphically - Provided recommendations for future access support programmes, bearing in mind resource constraints - Outlined and began development of a long-term student roadmap resource for Oxbridge applications 	
World Experience Exchange (Research Intern for Kids Club Kampala)	Jun 2020
<ul style="list-style-type: none"> - Analysed an existing off-grid ~ 640W PV system in for bottlenecks in hardware - Identified hardware limitations of (lead-acid) batteries and charge controllers in the current setup - Researched power solutions for existing and future needs, requiring up to ~ 2,500Wh daily - Liased with local organisations to determine possible training and funding for the project 	
Citizens Advice (Campaigns and Research Intern)	Apr 2020
<ul style="list-style-type: none"> - Decomposed regional client profile trends (~ 6,000 entries) using spreadsheet software and Python - Identified at-risk client demographics over a 6 month dataset - Analysed the impact of COVID-19 on service usage - Presented reports based on research to be used in targeting specific demographics of userbase 	
Slipstream (Oxford Team Member)	Mar 2020 - Present
<ul style="list-style-type: none"> - Co-ordinate student mentoring & promotional program with several team members - Collaborate with national group members to help expand outreach work 	
Cropper (Developer)	Summer 2019 - Present
<ul style="list-style-type: none"> - Created terminal program for *nix systems to edit media files - Maintain Cropper in the Arch Linux User Repository - Extended skills to develop various utility scripts such as bulk renaming 	
British Heart Foundation, Oxford (Volunteer)	Aug 2018 - Jan 2019
<ul style="list-style-type: none"> - Facilitated stock organisation alongside 4-5 colleagues - Responsible for aiding dozens of customers on a daily basis - Gained insight on management in regards to marketing and sales 	
Research EPQ on Matter-Antimatter Imbalance (Researcher and Writer)	Spring 2018
<ul style="list-style-type: none"> - Independantly conducted report analysis and research on early universe particle interactions - Developed conclusions based on recent experimental evidence - Presented report to a large (~ 200 people) audience at the YSJ Conference 2018 	

SKILLS

- Tableau, spreadsheet software, basic HTML, shellscript, MATLAB, Python 3, awk, sed, and \LaTeX
- Version control using git
- Numerical modeling (such as via the RK4 or Metropolis-Hastings method)