

## EDUCATION &amp; AWARDS

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

## EXPERIENCE

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

## SKILLS

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