

EDUCATION

- University of Oxford, St. Hilda's College - MPhys Physics** 2019 - 2023
- 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)
- d'Overbroeck's Sixth Form** 2016 - 2018
- 5 A Levels: Maths - A*, Further Maths - A*, Economics - A*, Physics - A*, French - B
- Oulder Hill Community School** 2016
- 11 GCSEs A*-A including English, Maths, and Science

EXPERIENCE

- The Brilliant Club** (Charity and Development Intern) Dec 2020
- Aided the design of a maths program based upon cartesian geometry for gifted 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
- 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
- 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
- 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
- Co-ordinate student mentoring program with several team members
 - Promote educational access work to university body
 - Organise promotional events
 - Collaborate with national group members to help expand outreach work
- Cropper** (Developer) Summer 2019 - Present
- 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
- 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
- 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, shellsript, MATLAB, Python 3, awk, sed, and \LaTeX
- Version control using git
- Numerical modeling (such as via the RK4 or Metropolis-Hastings method)
- Help maintain the <https://openpotd.github.io/> website and documentation

SOCIETIES

- Oxford Feminist Society**
- *CRED Officer*: responsible for addressing minority issues & assist in organising events Jun 2020 - Jun 2021