

# Alasdair Koplick

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**2:1 Master's in Physics & Astronomy (MPHYS) from the University of Manchester, with two years experience using Python for data analysis and basic knowledge of C++ and HTML. I am currently looking for opportunities in consulting and other industries that rely on creative problem solving and mathematical analysis.**

Attended City Of London School for Boys and University of Manchester

*Other interests include bouldering, jazz piano, music production, sailing and theatre technology*

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## Experience and Achievements:

- **MPHYS dissertation project (2023-2024):**

Spent a year modelling brown dwarf distributions in the Milky Way using astronomical data, in a small team. I wrote two papers (found [here](#) & [here](#)). I gained experience in understanding and applying information in scientific papers; problem solving and use of analytical skills.

- **Manchester University Technical Theatre Society Committee (MUTTS) (2023-2024):**

Served as Social Secretary for MUTTS, one of the largest student run technical theatre groups in the UK, organising socials, managing productions and leveraging 8 years of experience on sound desks.

- **Young Enterprise (2018):**

Won an award and grant from the School Board of Governors to design and produce a marketable product. I jointly managed the team to create a new board game which we sold to students.

- **Physics Pre-University Academic Camps & Research (2017 – 2018):**

Accepted onto the National Physical Laboratory summer academy, studying the relationship between Young's Modulus and frequency in metal bars in a practical experiment.

- **City of London School Telescope Society (2017 – 2018):**

Successfully applied for a School Board of Governors grant to jointly establish and run a school society for a year where we researched and began building a radio telescope.

- **Duke of Edinburgh (DofE) (2016 – 2019):**

Awarded Gold, Silver and Bronze certificates, across which I developed swimming, sailing and music skills, as well as leadership experience while on expeditions and volunteering.

- **Cyber Security Extended Project Qualification (EPQ) (2018):**

Researched and consulted professionals in the Cyber Security industry to write a report (found [here](#)) as part of my A-levels, looking at the future effects of quantum computing on Cyber Security.

- **Volunteering (2016 - 2024):**

I have volunteered at the Edinburgh Fringe for the last two years helping with theatre tech. Additionally I volunteered for DofE with my local scout group, and the Rona Sailing Project (a charity helping disadvantaged children to learn to sail) working alongside others to crew a 42ft yacht.

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## Previous Work Experience:

Since qualifying as a Dinghy Instructor in summer 2018, I have worked at Wembley Sailing Club teaching the RYA syllabus to children and adults by running week courses, and helping with club management.

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## Educational Qualifications and awards:

**A-levels:** A\* in Maths Pre-U D2. 3 A's in Physics OCR B, Economics and Cyber Security EPQ

**iGCSEs:** 9 A\*'s in English Lit & Lang, Maths, Bio, Phys, Chem, German, History, Latin. A in Music

**Other:** Grade 8 Piano; RYA Dinghy Instructor; DoE Gold; PADI open water diving certificate