

LIAM L. H. LAU

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EDUCATION

University of Cambridge, Gonville and Caius College

2017 - 2020

B.A. Natural Sciences (Physics) with an Optional 4th Year

First-Class in Maths and Physics. 2.i in Chemistry and Materials. (First Year)

Westcliff High School for Boys

2010 - 2017

4A*in A level Physics, Maths, Further Maths & Chemistry (2017)

12A*, 1 A in GCSE's. A*'s including: English, Maths, Chinese & Physics (2015)

A in Free-Standing Mathematics Qualification (Additional Maths OCR) (2015)

Awards

Silver Medal at the British Physics Olympiad (2016)

Gold Award for the Cambridge Chemistry Challenge (2016)

University of Cambridge Senior Physics Challenge (2016)

10th Nationally in the FMSP Year 10 Team Maths Challenge (2014)

EXPERIENCE

Airbus Fly Your Ideas Competition

Oct 2018- Present

Project

📍Toulouse, France

- Finalist for Airbus Fly Your Ideas. Our idea involves the development of a novel way of generating power in radiation bands around planetary bodies. We'll be attending the finals in Toulouse, France after 2 rounds of selection at the end of June.

Summer Project in the SMF Group

July - August 2018

Summer Intern

📍Cavendish Laboratories

- Coded a short simulation to solve a partial differential equation with a finite difference method.
- Simulated electron trajectories in the ioniser of the Scanning Helium Atom Microscope (SHeM) using COMSOL.
- Tested peltier modules in vacuum and coded the sample cooling and sample heating programs in MATLAB.

Summer Project in the Photonics Academy of Wales

July - Aug 2016

Summer Student

📍Bangor, Wales

- Designed and made an automated system which copies the motion of a control trolley using digital electronics and lasers.

PROGRAMMING SKILLS

C/C++, Python, Bash, Linux/Unix
Matlab
Git, MySQL, L^AT_EX, HTML, CSS, PHP

Working Proficiency
Familiar
Basic

LANGUAGES

English
Cantonese
Mandarin

Native Speaker
Limited Working Proficiency
Basic

EXTRA-CURRICULAR

Workshops and Events Attended

- **J. P. Morgan** – Introduction to Data Science and Machine Learning in Python - (*Oct 2018*)
- **AI Hack** – 3rd Place GWAS Project on using logistic regression with single-nucleotide polymorphism data to determine significant SNPs associated with coronary artery disease. A link to our paper on our methodology can be found on my website. (*Nov 2018*)
- **Oxford Hack** – Started a project on a dynamic, smart student calendar. (*Nov 2018*)

Captain of the Gonville and Caius Basketball Team

2017 - 2019

- Organise and run weekly practices for the team to compete in the Cambridge College league. We went undefeated in the College League in 2018-19.

Co-Chair of the Cambridge University Physics Society

2019 - Present

- Recently elected to be the Co-Chair of the university physics society.

Personal Projects

- Personal resumé website.
- Simulation of orbits using numerical methods.

Duke of Edinburgh Award: Bronze, Silver

- Volunteering experience including interacting with disabled individuals at Essex's Disability Inclusion Society.
- This involved collaborative projects to revamp public spaces, such as planting a visual garden for Basildon Hospital.

Piano

2008 - Present

- Continuation to Grade 7. Especially enjoy playing pieces from the Romantic period.

REFERENCES

References are available on request.