**Luna Lamb**

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<https://lambxx.github.io>

**EDUCATION**

**Manchester Metropolitan University**

**BSc, Computer Science Sept 2020-June 2025**

*Modules to be completed this(penultimate) year:*

Algorithms and data structures, Networks, Industry and community engagement, Ethical Hacking, Operating systems, Software development,

*Years 1 and 2 at the University of Edinburgh*

Modules in object-oriented programming (Java), Functional programming (Haskell), Mathematics, Data Science (Pandas/Seaborn/Python), Machine Learning (DPLL), Algorithms and data structures (Python), Computer Architecture (C, MIPS) and Software Engineering (Java)

Outside modules: Introduction to Gender in the Contemporary World, Queer Studies.

**Varndean College Sept 2017 – May 2019**

**A-Levels:** AAA\* in Maths, Computer Science, and Photography.

**Dorothy Stringer School Sept 2013 – June 2017**

**GCSEs:** 9 GCSEs (Equiv. 2A\*, 3A, 4B) including A\* in Maths, A in Computer Science, B in English.

**Free Standing Maths Qualifications:** A in Further Maths, B in Advanced Additional Maths.

**WORK EXPERIENCE**

**Format Coffee Brighton Aug 2022 – Sept 2023**

**Manager**

* Key Holder,
* Ensuring consistent quality of Artisan Coffee.
* Training new staff.

**Information Services University of Edinburgh May 2021 – Sept 2021**

**Web Development Intern**

* Worked independently to implement the backend PHP/jQuery project.
* Worked with a large team in an agile methodology.
* Assisted in time-sensitive implementation of the testED website project.
* Independently completed LinkedIn learning modules to assist in training.

**Private tutor June 2018 – present**

* Delivered over 400 hours in Mathematics and Computer Science tuition, with all lessons rated five stars by students.
* Managed the stress and anxiety of parents and students leading up to exams.
* Adapted teaching styles to meet the needs of students from primary to A-Level.

**Varndean College**

**Learning Coach for Mathematics Sept 2019 – May 2020**

* Supported Students on a 1:1 basis, managing queries and concerns relating to exam material and exams.
* Collaborated with all staff members within the mathematics department to effectively aid them.
* Understood and applied professional practices and safeguarding in a sixth-form college environment.

**PROJECTS and Skills**

**Programming languages:** C#, Java, Haskell, Python, DPLL, MIPS and C (university); PHP, Java and jQuery(Internship ); Visual Basic (A-Level); Ruby (GCSE); HTML and CSS.

**Tools:** Drupal, Juypter, Microsoft Office suite, Git and GitHub, WordPress, LaTeX.

**Interests and Areas of Study:** Data Science, Software Engineering, Human-Computer Interaction and Ethical Practices.

**Social Statistics Hackathon 1st place Sept 2023**

I participated in the Social Statistics Hackathon hosted by the Department for Social Statistics at the University Of Manchester. I used my technical data analysis skills and ability to work to a tight deadline to create a presentation. When I presented the project, this and my communication skills won me first prize. I used Python in Jupyter Labs to develop visualisations and model data. I also used my critical thinking skills and knowledge of sociological factors to discuss the relevance of these findings and compare them to current literature.

**Website Manager**

I am the sole website manager for a large charity. In charge of checking if content is up to date and adding

new content on their WordPress-based site.

**Impact of GPT**

I am passionate about education, and I am currently working on a project to explore the impact of GPT on the enviroment, thinking about how we can use data science to educate and empower. This Ongoing project allows me to keep being involved with data analytics. You can see it here: <https://lambxx.github.io/ImpactOfGPT>.

**Ecotech Explorers: Greener Computing Project**

I will work in a team throughout October and November, investigating the impact of computing on society and presenting a project at the end.

**Linked-In Learning Courses**

recently completed a course in the R programming language. I am finishing a study on Git and working through courses to prepare for my CCST networking certification. You can check my LinkedIn to see an up-to-date list of courses I have completed.

**Ticket system**

I worked in a team of 4 to create a Java-based application with complete documentation following an agile methodology. We also developed class diagrams and Unit tests. I was using git throughout.

**Data Science Paper**

Created a complete data science report following the structure of an academic paper. Using Pandas/Seaborn in Jupyter for the statistical analysis and visualisation.

**Modelling CPU**

I used the C programming language to model the CPU, achieving a near 100% mark, aiding my overall 85% grade in computer systems.

**Generative Art**

I used P5.js to create a portfolio of generative art, following tutorials.

**Connect Four game**

Implemented command-line Connect Four game in Java. Documented design process and explained design decisions.

**Shop management system**

Designed and implemented user interface and backend for shop management system in Visual Basic. Outlined success criteria, identified stakeholders and customers, tested the program against success criteria and documented the testing process.