

Mariana Ravelo

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London, UK

GitHub | Portfolio Website

PERSONAL PROFILE

I am a motivated, organised, and hard working recent graduate from Aberystwyth University. I completed a **Master of Physics** degree in **Space Science and Robotics** and achieved an **Upper second-class honours**. I have experience developing **simulations** of robotics and theoretical physics scenarios, as well as knowledge of **microcontroller programming**. In search of a **Graduate Software Engineer** position, where I can apply my knowledge to solve problems and develop my skills.

KEY ACHIEVEMENTS AND SKILLS

- Experienced in **Python** with knowledge of Matplotlib, openCV, NumPy and Pandas. Also familiar with C and Java.
- I have worked on a few personal projects showcased on my GitHub page, acquiring knowledge of **JavaScript, HTML, CSS and React**.
- **Data analysis** and interpretation techniques developed and applied during multiple university physics projects.
- Through the successful completion of my university degree, I acquired great time management skills and perseverance. Additionally, it enhanced my critical thinking skills enabling me to approach and solve complex problems.
- I held a part-time position as a **Sales Assistant**, which allowed me to expand my skills in effective communication, teamwork and multitasking.

EDUCATION

Aberystwyth University
Space Science and Robotics
Master of Physics

September 2019 – July 2023

Dissertations:

Masters: Stereo observation of fast-moving objects. A special relativity theory project which involves creating a physics simulation for visualization of complex relativistic phenomena. Grade achieved: 74.

Bachelors: Simulation of a Mars rover. A project aiming to create a simulation to observe different driving strategies being performed by a six wheeled rover. Grade achieved: 67.

Some modules completed during my degree include:

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|--|--|
| • Fundamentals of Intelligent Systems : 65 | • Scientific Python : 84 |
| • Space Robotics : 77 | • C and C++ : 67 |
| • Robotic Applications : 66 | • Laboratory Techniques for Experimental Physics: 83 |
| • Computer Vision : 70 | • Programming Using an Object-Oriented Language:77 |

Reading College
A levels

September 2017 – July 2019

- Maths : A, Further Maths : B, Physics : B.

Beechwood School

September 2015 – July 2017

- 9 GCSEs including Maths, English and Computer Science at grades C or above.

PERSONAL PROJECTS

Websites

Used React, JavaScript, CSS and HTML to develop my personal portfolio website and a Linktree page.

- Familiar using React to build user interfaces.
- Utilized the MUI component library to create a visually appealing and user-friendly design.
- Able to use CSS for structuring content and styling.
- Working on achieving a responsive design using media queries.
- Competent at implementing React Router for enabling navigation in a multi-page website.
- Created the Linktree website to showcase and promote my handmade jewellery Etsy page.
- Both projects are public on my **GitHub**.

WORK EXPERIENCE

Auntie Annes

September 2019 – September 2023

Seasonal staff member

- Collaborated in a team to bake products and provide sales services.
- Developed multitasking skills in a fast-paced retail environment, managing various responsibilities simultaneously.
- Enhanced my communication skills while interacting with customers and colleagues.
- Trained new employees.

Sciaky Work Placement

April 2017 and June 2018

Electrical Engineer Assistant

- Read control schematic and ladder diagrams.
- Connected and tested operator box switches and buttons.
- Received an introduction to PLC programming.

INTERESTS AND ADDITIONAL INFORMATION

- Music scholarship holder at Aberystwyth University, lead viola player of Philomusica and regular guest player at other town orchestras in Wales.
- Keen on getting involved with the community. Completed the National Citizen Service program and volunteered at Oxfam.
- Fluent in English and Spanish with an interest in learning other languages.
- Enjoy crafting and making handmade jewellery.