

# Mariana Ravelo

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London, UK

## PERSONAL PROFILE

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A Master of Physics graduate with a second class honours (division 1) degree. Skilled in mathematics and computing with an interest about space. Capable of working in a team or independently and looking forward to getting involved with space technologies.

## KEY ACHIEVEMENTS AND SKILLS

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- Proficient in Python with knowledge of Matplotlib, NumPy and Pandas, also familiar with C and Java.
- Experience with robotic simulations using the Robot Operating System and CoppeliaSim.
- Technical report writing skills.
- Understanding of forward and inverse kinematics, path planning and SLAM.
- Strong communication and team working skills gained while working in customer service.

## EDUCATION

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**Aberystwyth University**  
**Space Science and Robotics**  
**Master of Physics**

September 2019 – July 2023

Dissertations:

- 4th year: 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.
- 3rd year: 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:

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

**Reading College**  
**A levels**

September 2017 – July 2019

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

## WORK EXPERIENCE

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**Auntie Annes**  
Seasonal staff member

September 2019 – Present

- Collaborate with co-workers in a busy environment to bake and sell the products.
- Often responsible for opening/closing the store, and balancing the till.
- Train new staff.

**Sciaky Work Placement**  
Electrical Engineer Assistant

April 2017 and June 2018

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

## INTERESTS AND ADDITIONAL INFORMATION

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- 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 now a volunteer at Oxfam.
- Fluent in English and Spanish with an interest in learning other languages.