Patric Boardman - CV

First class physics graduate from the University of Exeter aspiring for a career in computational modeling and data analysis.

Tel: +44 7465 990 676 • Email: [pazzy.boardman@mac.com](mailto:pazzy.boardman@mac.com) • Website: [pazzyboardman449.github.io](https://pazzyboardman449.github.io/)

Qualifications:

# Sep 2017 - Jun 2021: Master’s Degree in Physics

Qualification: First class integrated master’s degree in physics with honors in physics

Institution: University of Exeter

# Sep 2013 - Jun 2016: A Levels

A Level: Mathematics: A\*, Physics: A, Graphic Design: B  
AS Level: Further Mathematics: A, Biology: B, Product Design: B

Institution: The Kings School (2013-2014), Exeter College (Attended 2014-2016)

# Sep 2011 - Jun 2013: GCSEs

Subjects: 9 GCSE’s Including Maths (A\*) and English Literature and Language (B, B)  
Grades: 2 A\*s, 3 As, 4 Bs

Institution: The Kings School, Ottery St. Mary (Attended 2008-2014)

Experience:

# Sep 2021 - June 2022: Postgraduate Researcher, University of Exeter

Employer: College of Engineering, Mathematics and Physical Sciences at the University of Exeter

Accomplishments:

* For the last academic year, I undertook novel research as part of a group into improving the imaging of biological tissue using THz waves. This involved a mixture of computational modelling, combined with laboratory work, and group discussion.
* Developed Python programme that extracted the refractive index of artificial skin tissues from bulk laboratory measurements and then successfully translated this into water content within these tissues.
* Demonstrated weekly problems class to undergraduate physics students, which involved marking assignments and then going through, in person, the solutions to these assignments.

Relevant Skills: Researching, data analysis, modelling, lab work, problem solving, presentation.

Type of Experience: Full time.

# Apr 2020 - Sep 2020: iGEM 2020 Team Member

Employer: BioEconomy center at the University of Exeter

Accomplishments:

* Worked as part of a 10 Person interdisciplinary team utilizing engineered bacteria to 3D print Calcium Carbonate crystal structures, initially as a proof of concept.
* Development of the iGEM wiki, a website showcasing our project, including UI and UX design. Primarily based on HTML and CSS.
* Developed MATLAB and python programmes that successfully simulated the time evolution of the mechanical properties of the materials associating with the 3D printing.
* Earned a gold medal in the competition. Full details of the criteria can be found at [2020.igem.org/Judging/Medals](http://2020.igem.org/Judging/Medals).

Relevant Skills: Computational modelling, web development, teamwork, working remotely under COVID conditions.

Type of Experience: Full-time summer placement

# Jun 2016 - Aug 2017: Website and Graphic Designer:

Employer: The Cube Lab, Ltd.

Accomplishments:

* Assisted with the development of a range of websites and helped manage existing websites by keeping them up to date, ensuring they are responsive and offering search engine optimisation (SEO). This involved coding in HTML, CSS and Java, while also using content management systems such as WordPress and several web APIs and additional plugins.
* Designed a range of logos, websites, brands, and illustrative package designs for a wide range of clients.
* Communicated directly with clients over various tasks.

Skills: Design software (Adobe Illustrator, Photoshop, HTML, CSS), coming up with new and innovative ideas, being able to work towards deadlines, working for clients.

Type of Experience: One Off

# Jan 2017 - Jul 2017: Team Member at The Cornish Bakery

Employer: The Cornish Bakery, Ltd.

Accomplishments:

* Was awarded employee of the month, March 2017 for customer service.
* Served customers and dealt with individual requests from them if necessary.
* Cleared tables and dishes whilst also managed shop cleaning duties daily.

Skills: Being able to work as part of a team, handling multiple tasks at once, speaking to a variety of people, being able to work efficiently.

Type of Experience: Part time coffee shop work

Skills & Certifications:

# Programming Languages: Python (Completed Codecademy Course 2015), HTML, CSS, R, MATLAB, C (Took C module in university, Grade: First)

# Relevant Software: GitHub, VS Basic, Adobe Creative Cloud (Illustrator, Photoshop, InDesign), Final Cut Pro (Video Editing), Microsoft Office (Word, PowerPoint, Excel, Outlook, Teams, etc), Zoom

# Certifications: University of Exeter Dean’s commendation in recognition of outstanding academic achievement (2018, 2019), Equality and diversity training certification (2021)

Other Relevant Experience:

# Jan 2020 – Jun 2021: Degree Masters Project:

My masters project involved designing a programme that was able to determine physical properties of red blood cells through the analysis of images. The programme was primarily written in Python and successfully determined that there was a link between cells treated with alcohol and their in vitro mechanical properties.

# Jun 2018 - Present: Online University Physics Video Tutorial Series on YouTube:

My YouTube channel focuses on presenting both A-Level and university level physics content in a clear and understandable way. Video topics mostly focus on thermal and statistical physics but also include electromagnetism and some vector calculus. ([youtube.com/user/pazzy768/videos](http://youtube.com/user/pazzy768/videos))