

# Charlotte Fairman

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Third year BSc Physics student at the University of Bristol currently undertaking a final year research project finding and investigating the properties of galaxy clusters using eROSITA data. Keen to learn new skills, I am looking to pursue a career in the space sector, utilising my enthusiasm and education to contribute to this broadening and exciting field.

## EDUCATION

2019 – Present: **BSc Physics, University of Bristol**

Courses include: Mathematical Physics (89%); Nuclear and Particle Physics (85%); Introductory Chemistry for Chemical Physicists (84%); Thermal Physics (81%)

2016 - 2018: **Peter Symonds Sixth Form, Winchester**

4 A Levels: Physics (A\*); Chemistry (A\*); Mathematics (A\*); Further Mathematics (A)

2011 - 2016: **Kings' School, Winchester**

FSMQ (Further Mathematics) (A)

11 GCSE's: Grades A\*- A, including English and Maths

## SCIENTIFIC EXPERIENCE

- Experience in using Python to perform numerical integration using techniques including the Runge-Kutta method and Simpson's rule to solve physical problems and evaluating the accuracy of the methods.
- Experience in using the Linux OS for astrophysical data analysis.
- Developed strong data presentation skills using Origin to visually communicate scientific results such as the acoustic normal modes of 3D cavities.
- Use of mathematical techniques such as Fourier transformations and the Legendre equation to solve differential equations.
- Communicating results of experiment through formal reports.
- Communicating scientific ideas through a digital medium, such as in a group project to introduce and explain analogue to digital circuits to students at a GCSE level.
- Worked in a science communication group project to introduce the concept of analogue to digital circuits to students at a GCSE level
- Student member of the Institute of Physics.

## EMPLOYMENT HISTORY

**Summer 2019: Waiting Staff at Norton Park Hotel, Winchester.**

- Working as part of a team to serve business and leisure customers in a fast-paced environment.
- Efficiently cleaning the dining area in a time effective manner to provide a high-quality dining environment to guests with minimal supervision
- Communicating with guests in a friendly and engaging manner to provide a positive customer experience and to ensure customer needs were satisfied.
- Showing adaptability and initiative by identifying busier areas of the dining floor and shifting focus to meet the increased demand in these areas.

### **September 2018- January 2019: Distribution Assistant at Burrells Jewellers, Alresford.**

- Fulfilling online orders efficiently during the busy Christmas period and using strong attention to detail to accurately pick, send outgoing stock, and book in returning stock to 18 different stores.
- Working accurately to procedure in completing stock takes to find, review, and reconcile stock discrepancies.
- Communicating information and processes to new team members when training incoming temporary staff in the picking and packing process for online orders.

### **Autumn 2016: Data Entry at RE Thompson (Manufacturing Company), Whitchurch**

- Systematically working through stock lists held on different software to reconcile discrepancies between the data.

## **POSITIONS OF RESPONSIBILITY**

### **2020: Treasurer, Bristol Revunions**

- Successfully applied for a Covid-19 support grant to assist the student group in running during the covid restrictions.
- Managing the finances of the society on a daily basis and creating an annual budget that was adaptable to the uncertainties of changing covid restrictions.
- Co-leading groups to produce ideas and formulate sketches.

### **2015-16: Senior Prefect, Kings' School Winchester**

- Positively promoted the school when leading prospective students and parents on tours during open days and open evenings.

## **INTERESTS AND HOBBIES**

- Represented the under 17 and 20 Great Britain squads in fencing since 2015, requiring determination, a high commitment to training and effective time management.
- Won the U18 British Youth Championships in 2016 and a bronze medal in the team event of the Junior Commonwealth Fencing Championships in 2018.
- Won the BUCS Southern Premier League 2019/20 as part of the University of Bristol fencing team utilising effective teamwork and playing strategically to the strengths of individual fencers.
- Awarded the Mercers' Award grant from Peter Symonds College for demonstrating 'Mercer values', which are defined as "having demonstrated a strong sense of social responsibility, through taking an active role in the college, local or wider community, that has enriched the life of the college," due to my fundraising efforts for Project Embabazi.
- Individually contributed over £1000 of fundraising to Project Embabazi through car boot sales, cake sales, online sales as well as presenting a talk at the beginning of my village Christmas event.
- Performed in 2 sketch shows with Bristol Revunions, creatively collaborating with the cast to write, workshop and perform sketches in live audience shows.

## **REFERENCES**

References available upon request