

# LUIS WALLACE

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Personable, resilient, and highly motivated Mathematics graduate seeking to launch a career in data science and statistical analysis. Brings strong analytical skills, a collaborative mindset, and a passion for uncovering insights through data.



## KEY SKILLS

- ❖ **Teamwork** – In 2023, I collaborated with two peers to win the University of Bath Team Integration Bee and reach the UK universities final. We solved advanced mathematical problems under strict time constraints, combining individual insights with coordinated group strategies.
- ❖ **Analytical Mindset** – Mathematical proof demands rigorous logic and consideration of all possible cases. This discipline fosters confidence in the validity of conclusions and sharpens my ability to assess complex scenarios with precision.
- ❖ **Communication** – During the “Maths of Planet Earth” module, I worked on a group project where clear communication was essential. We regularly exchanged ideas, challenged each other’s methods, and refined our approach based on constructive feedback, leading to stronger solutions.
- ❖ **Data Handling** – Proficient in R, Python, SQL, and Haskell. I’ve also independently explored Amazon Web Services and can confidently perform basic tasks using its cloud-based tools.
- ❖ **Creative Thinking** – Achieved top score in my college year in the UK Senior Maths Challenge and reached the London Finals of the Team Challenge. These experiences reflect my ability to think laterally and solve problems under pressure.



## EDUCATION – UNIVERSITY

### BSc Mathematical Sciences (2:2), University of Bath, 2021-25

Modules included:

**Statistics (72%)** – Explored parameter estimation and hypothesis testing to evaluate population characteristics. Assessed the robustness of results by applying both appropriate and deliberately unsuitable models, developing a critical understanding of statistical reliability.

**Graphs and Networks (72%)** – Progressed from analysing small graphs with elegant proofs to investigating large-scale networks and their properties. Applied theoretical insights to real-world systems, such as social media connections, to understand structural behaviours in complex networks.

**Data Science (57%)** – Covered the full data science lifecycle, with emphasis on answering open-ended questions through rigorous analysis and clear communication. Applied data wrangling techniques, constructed diverse visualisations, and justified methodological choices for varied audiences and stakeholders.

**Number Theory (75%)** – Investigated the foundational properties of integers and complex numbers, gaining insight into how these principles underpin results across multiple branches of mathematics.

**Programming (72%) & Functional Programming (67%)** – Developed coding proficiency in R and Python through regular assignments and projects. Studied functional programming as a method of problem-solving by composing sequential functions — each feeding into the next — to simplify complex logic into elegant, modular solutions.



## EDUCATION – SECONDARY

### **Peter Symonds College, Winchester**

*Sixth Form, 2019–21*

Achieved four A-Levels: Maths A\*, Physics A\*, Chemistry A, Further Maths A

### **Swanmore College, Hampshire**

*Secondary Education, 2014–19*

Achieved eleven GCSEs: five Grade 9s (A\*\*); four Grade 8s (A\*) and two Grade 7s (A)

Awarded the Head of Year Citizenship Award for outstanding contribution to the school community.



## WORK EXPERIENCE

### **Caregiver, 2023 onwards**

Provided regular support to my grandfather during his transition into a care home, helping him maintain a sense of connection and dignity. Also helped my grandmother in adapting to the change, including redecorating her home to create a comforting and uplifting environment.

### **Waiter & Bartender, The Shoe, Summer 2023**

Worked in a busy, well-regarded pub and restaurant where high-quality service was essential. Thrived under pressure during peak times — especially the Sunday Roast service — and collaborated closely with the team to ensure smooth operations and customer satisfaction.

### **Operations Control, Glastonbury Music Festival, June 2022**

Had the amazing opportunity of working in the control centre at Glastonbury Festival, initially shadowing incident response before independently managing live radio communications and coordinating resolutions. Completed 12-hour night shifts liaising with festival control and external agencies. Received direct praise from my employer post-event and was invited to work control rooms at future festivals.

### **Work Experience, National Air Traffic Service, June 2019**

Gained insight into the operational and mathematical challenges of air traffic management. Attended talks from NATS professionals, including those working on automation and safety systems, deepening my understanding of applied mathematics in high-stakes environments.



## ACHIEVEMENTS

- **Full UK Driving Licence** – Confident and responsible driver.
- **Gold Duke of Edinburgh Award** – Demonstrated resilience, leadership, and commitment through volunteering, physical challenges, and expedition planning.
- **Grade 8 Trumpet** – Achieved a high level of musical proficiency through years of dedicated practice. Performed at a sold-out Royal Albert Hall and toured Italy with the Hampshire County Youth Band.
- **Musical Director, University Concert Band** – Led rehearsals and performances with creativity and precision. Also served as **Vice Chair (Instrumental)** of Bath University Music Society, supporting society operations and representing instrumental members in planning and decision.
- **Fitness Enthusiast** – Completed the iconic 10-day alpine trek Tour du Mont Blanc, demonstrating endurance and determination. Have also run three half marathons and actively maintain a healthy lifestyle.



## INDEPENDENT DATA SCIENCE PROJECTS

Since studying data science and machine learning at university, I've continued to develop my skills through personal projects. These have allowed me to take ownership of how trends in data are communicated and to critically assess the limitations of different analytical methods. To showcase this work, I've created a website that presents my projects and the insights they reveal.