**Alessandra Latham**

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Ambitious, dedicated, and hardworking Undergraduate Maths and Physics student, particularly passionate about the applications of Quantum Physics and looking for work experience in the Technology Industry.

**EDUCATION**

**University of Bristol | BSc Maths and Physics | Predicted 1st Class 2021- Present**

* **First Year Modules:** Core Physics I: Mechanics and Matter (80); Probability and Statistics (72); Physics Laboratory (66); Ordinary Differential Equations (66); Linear Algebra (64), Analysis (62).
* **Second Year Modules (all to be completed, current average 76)**: Mechanics, Oscillations and Quantum Mechanics I; Multivariable Calculus and Complex Functions; Ordinary Differential Equations; Electromagnetism, Waves and Quantum Mechanics II; Thermal Physics; Practical Physics; Applied Partial Differential Equations.

**Tonbridge Grammar School for Girls | International Baccalaureate | 42 points 2019- 2021**

* HL Subjects: Maths - 7, Physics - 7, Economics – 6
* SL Subjects: Design Technology – 7, Spanish (Ab Initio) – 7, English Literature and Performance – 6

**SKILLS**

**Project Management**

* Greatly strengthened planning, management, and organisational skills as a Houseparent to ensure the smooth running of the boarding house. Oversaw large responsibilities including managing children’s medicines, money, and personal documents.
* Designed a revision strategy for the students I tutored and planned and delivered lessons and targeted homework.

**Leadership**

* Was elected Course Representative to speak on behalf of students in my cohort, voicing concerns and working with faculty members to improve student experience on my course.
* Represented the University to visitors, prospective students, and their parents as a Student Ambassador, answering questions regarding the University, my course, and student life.
* Led and delegated my peers whilst working as a Houseparent, creating rotas for staff house duties and being the point of reference for both staff and parent complaints/inquiries.

**Research**

* Gained experimental technique in practically challenging measurements whilst working in the Physics Laboratory.
* Developed experimental judgement in choosing the most suitable data collection methods, whilst also acquiring further experience with the analysis and evaluation of experimental errors.
* Conducted thorough research before carrying out the experiments to understand the theory and practiced scientific writing in the Labs Formal Reports.
* Created a 30-page design brief for Design Technology Coursework including market research, design specification, modelling in Fusion360, and manufacturing, materials, and component justifications.
* Wrote a 4000-word research essay on the comparison between methods of solution to the Basel problem, considering Series Estimation with integrals, Euler’s Proof and Cauchy-Scholes’ Proof.

**Technical Skills**

* Used OriginLab for data analysis in Physics Laboratory.
* Used Fusion360 for accurate product and components modelling in design brief.
* Learned to efficiently use the equipment necessary for my experiments, conducting risk assessments and following precautions to mitigate risks.

**Teamwork and Interpersonal Skills**

* Managed to create a friendly and welcoming atmosphere in various workplaces like the University of Bristol open days, a high-end restaurant, and a local Italian food Deli, thanks to my communication skills and adaptability.
* Worked in a team with fellow waiters and bartenders in the restaurant to ensure smooth and efficient service.
* Increased positive online reviews at the restaurant by providing professional service while making engaging connections with guests to create loyalty and encourage repeat visits.
* Liaised with fellow Course Representatives to collect a large amount of feedback from our course mates and effectively passed it on to Faculty Members to collaborate on finding solutions together.

**Languages**

* Bilingual in spoken and written English and Italian with extensive grammatical and literary knowledge. Fluent in written and spoken Spanish

**EMPLOYMENT AND WORK EXPERIENCE**

**Micro Internship | Ghyston To be completed – December 2022**

* Will shadow professional Software Developers and Consultants, working on team projects and learning the basics of coding to further advance my skillset to work in the Technology Industry.

**Millfield Enterprises | Houseparent July – August 2022**

* Ran the boarding house and organised, managed and represented up to 40 international students (ages 12-16) at a time under my care, overseeing medicine, pocket money, personal documents, ensuring the general wellbeing of the students.

**University of Bristol | Student Ambassador March 2022 – Present**

* Welcomed parents and students visiting the University, instructing, and guiding them around campus and answering questions and enquiries about the University, the Course and life as a student.
* Portrayed selling points of the University of Bristol, ensuring return visits and helping students make the right choice.

**Freelance | Mathematics Tutor 2021 – 2022**

* Tutored 2 students on GCSE content, planning and delivering one-to-one sessions and assigning homework tailored to students’ necessities and weaknesses in their revision. Both students attained their target grades.

**The Italian Shop (Tunbridge Wells) | Food Sales Assistant May- September 2021**

* Offered excellent customer service and used compelling communication skills, exploiting my Italian and bilingual background to extend my knowledge of Italian cuisine to local customers, increasing sales by 20% and growing a regular clientele.
* Introduced the distribution of tasters just outside the shop, ensuring a constant influx of customers.

**One Warwick Park Hotel, “STEAK” Restaurant | Waitress and Bartender May- September 2021**

* Attended tables regularly to check customer needs were met, promptly processing and delivering food and drink orders while quickly clearing tables, maintaining service efficiency and high restaurant etiquette standards.
* Provided an attentive and personalised experience to each customer by greeting them by name, remembering special occasions and maintaining an in-depth knowledge of the food and drink menu for recommendations, increasing positive online reviews and creating a loyal and returning clientele while also pushing promotions to increase sales.

**WHSmith | Sales Assistant 2019 – 2021**

* Pushed promotions and items on sale to customers and maintained in depth knowledge of all products and services the company could offer to promote attentive customer service and increase sales.

**EXTRACURRICULAR EXPERIENCES AND ACHIEVEMENTS**

**University of Bristol, School of Science | Course Representative for Maths and Physics September 2022 – Present**

* Elected to represent the student body and voice any concerns/suggestions that need addressing. Currently working with the Science representatives to introduce a reading week in Science Courses that lack one.

**Violin Grade 8 | Distinction 142/150 2017**

**National Music Competition “Claudio Abbado”, Milan | “Best Soloist” 1st Prize 100/100 2016**