

Katherine Hulm

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A highly motivated and methodical final year MChem Chemistry student seeking a role in data science. During my degree, I have consistently achieved excellent grades in analytical courses whilst also managing our student bar with an annual turnover of £100,000. As Bar Treasurer, I increased net annual profits by 9%. I would now like to apply my analytical perspective, attention to detail and interpersonal skills to a new challenge.

EDUCATION

St Chad's College, Durham University **2015 – 2019**

MChem Chemistry: predicted grade 2:1.

- In my third year I achieved a 64% average, including a first in the module Materials Chemistry.
- I have particularly enjoyed coursework modules grounded in data analysis using Excel and assessed through lab reports on the resulting data; my enjoyment and ability are reflected in the grades achieved. For example, I attained an average of 73% in Practical Physical Chemistry II.
- Programming modules: Introduction to Programming (Java), Introduction to Python.

Extracurricular activities: Chemistry outreach, volunteer tutoring, rugby, rowing, Open Day Ambassador ('16 – present), Bar Manager ('17 – '18), Bar Treasurer ('16 – '17) and Bar Supervisor ('16 – present).

Bullers Wood School, Kent **2012 – 2014**

A Level Biology, Chemistry and Mathematics: A*AA. Extended Project Qualification: A*.

Hayes School, Kent **2007 – 2012**

7 GCSEs A* - C, including A* in English Language.

INDEPENDENT RESEARCH

Master's Project **2018 – 2019**

Working title: Apatite-type solid oxide fuel cell electrolytes

- Independent research into a novel oxide ion conductor, with experimental work complemented by comprehensive data analysis. Data analysis has been conducted using Excel and Topas Academic.
- Creating accurate statistical models and optimising their fit to the experimental reality.
- Effectively communicating my research, including fortnightly five-minute presentations.
- Surveying the scientific literature to inform my research, write an effective literature review and critically analyse reported data.
- Managing my time to complete multiple ongoing tasks to a high standard.

Third Year Literature Perspective (2:1) **2017 – 2018**

Title: White OLEDs based on phosphorescent organometallic complexes

- Assessed novel host materials against requirements and analysed stack architecture.
- Analysed datasets reported in the literature.

WORK EXPERIENCE

Open Day Ambassador, Durham University **July 2016 – present**

Shift Supervisor, St Chad's College Bar **March 2016 – present**

Science Outreach Volunteer, Durham University **October 2015 – present**

- Lead chemistry-based activities for Scout and Guide groups of up to 30 children.

Bar Manager, St Chad's College Bar **March 2017 – April 2018**

- Elected to oversee the daily running of a busy student bar, including training of all staff, staff rotas and general maintenance.
- Worked closely with the other four students on the Bar Committee to sustain our small business.

Telephone Fundraiser, Buffalo Fundraising Consultants **January 2018**

- Worked for a two week telephone fundraising project, in which we met and exceeded fundraising goals for scholarships.

Bar Treasurer, St Chad's College Bar **March 2016 – April 2017**

- Elected by my peers to manage the bar's £100,000 annual income, including daily cashing up, managing profit margins, drawing up cashbooks in Excel and conducting bank reconciliations.
- Increased our net annual profit by 9%.
- Sat on the College Finance Committee, comprised mostly of the college's senior management team.

Educational Resources Internship, Imperial College, London **August 2016**

- Worked independently to produce a series of debate activity plans to disseminate recent research into bio plastics by the Welton group.

Volunteer Tutor, Durham University Student Community Action **October 2015 – April 2016**

- Tutor to an AS Chemistry student for an hour each week.

Volunteer Child Mentor, City Year London **August 2014 – July 2015**

- Full-time volunteer as a tutor, mentor and role model at Sebright Primary School in Hackney.
- Based in a Year 6 class, I provided targeted academic and pastoral support to chosen students. My eight 'focus students' improved above the class average and reported greater wellbeing.
- Co-delivered a day of science outreach workshops in a nearby primary school.
- As a result of my performance as a presenter, I was chosen to represent the charity's science outreach work at the VIP opening of the Science Museum's Engineer Your Future exhibition.
- Pitched, planned and delivered a new after school club, Nature Detectives. The club was oversubscribed to the point where a second session was delivered by another member of staff concurrently. I supplied the lesson plans and trained my colleague in delivering the club.