

Molly Dunham

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Education

2021 - 2024 **BSc (Hons) Chemistry**
The University of Manchester
Expected: 2:1

- Developed knowledge in physical, organic and inorganic fields including thermodynamics, kinetics and surface chemistry.
- Experienced in safety techniques, hazardous waste disposal and completion of risk assessments through weekly synthesis and measurement experiments in the labs.
- Competent in the use of UV-vis, IR and NMR spectroscopies, and chromatographic techniques included TLC, HPLC and GC-MS.
- Collaborated in a team of 5 on a third-year group project synthesising metal-organic frameworks and investigating their applications of CO₂ reduction. Over an eight-week period, synthesis and analysis duties were shared, culminating in individual reports being written up and a group poster produced which was presented to research staff and peers, achieving a first-class grade.

2019 - 2021 **Boron College**

- A-Levels: Physics (A), Chemistry (A*), Mathematics (A*)

2014 - 2019 **Royal Americium High School**

- GCSEs: 10 A* - A including Maths, Science and English.

Relevant Work Experience

June 2023 – Sept 2023 **Industrial Placement, Agrochem**

- Assisted in medium to large scale chemical synthesis and purification of intermediates to be used in pharmaceutical and agricultural industry.
- Liaised with sales and regulatory affairs teams to support their duties and increase commercial awareness.
- Received health and safety training to understand best practice in industry and implemented this into daily work.

July 2022 – August 2022 **Laboratory Technician, LabCorp**

- Prepared soil and water samples for analysis, further developing analytical techniques.
- Completed relevant documentation accurately and quickly, demonstrating high attention to detail.

Volunteering

Sep 2023 – Present **Youth Can Do Homework Volunteer**
Northmoor Community Association

- Supported weekly three-hour sessions in the evening providing help with maths and science homework for children aged 8-16 in groups of four.
- Developed strong awareness of safeguarding and confidentiality.
- Gained an awareness of children with computer needs/reasonable adjustments.

- Motivated students to engage in the contact by making the learning experience interactive and fun.
- Supervised children to ensure they were behaving appropriately.

Other Work Experience

July 2021- Present **Team Leader**
(non-term time) **McBurgers, Collingley**

- Promoted to Team Leader within twelve months. Responsible for ensuring all aspects of a shift runs smoothly.
- Received an award for excellent customer service following a mystery shopper visit.
- Successfully trained staff to be multi-skilled and fully flexible. At request of the manager, briefed other Team Leaders on new training methods and saw them implemented across all shifts.
- Used initiative to introduce a new “handover” system, ensuring excellent communication between all team members.

Positions of Responsibility

Oct 2023 – July 2024 **Peer Assisted Student Support (PASS) Leader**
 University of Manchester

- Planned and organised sessions fortnightly for groups of 8-10 Chemistry first year undergraduates to support their learning. Feedback was received at the end of the year indicating a positive impact on the students’ academic experience.
- Attended regular meetings with other PASS leaders and academics to discuss how to best develop the program and support students.

Oct 2022 – July 2024 **Social Media Manager, ChemSoc**
 University of Manchester

- Created content for ChemSoc Instagram and Facebook pages to promote events and resources.
- Regular posting saw an increase in followers by 200 over the past two years.

Addition Skills

IT: Microsoft Word, Excel, ChemDraw, MATLAB, MestReNova, Mercury.

Driving: Full clean UK driving licence.

Interests and Activities

- Active member of the Royal Society of Chemistry and the University of Manchester’s Chemistry Society (ChemSoc) attending presentations from guest speakers and co-ordinating social events e.g. organised the 2023 Chemistry Easter Bunny Ball and increased student attendance by 40% on previous year.
- Participated in the University’s Hockey league where matches were played fortnightly on Sundays, leading the team as captain to a league victory in the 2023-24 season.

References available on request