

Caitlin Shepherd

CONTACT

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EDUCATION

University of Warwick

BSc-MBio in Biomedical Sciences
2021 - due 2025

Cardiff High School

Biology, Chemistry, Maths, History
2019 - 2021

Llanishen High School

2014 - 2019

SKILLS

- Visual and written communication
- Detail oriented
- Data handling and analysis (Excel, SSPS, Matlab)
- Graphic design (Canva, Inkscape)
- Fundamental laboratory skills (centrifuge, assay, ECG, haemocytometer)
- Understanding of organic and physical chemistry

I am a student of a BSc with integrated MBio in Biomedical Sciences at the University of Warwick, entering my third year of study. The first year of my degree was in Biochemistry, which provided an understanding of organic chemistry and quantum biology that has been fundamental to my Biomedical studies. My preferred areas of interest are neurobiology, immunology and development, though I am keen to gain experience in a wide range of fields through an industrial placement.

ACADEMIC EXPERIENCE

I have achieved a 2:1 in each year of my degree so far, covering modules including Epidemiology, Virology, Circulation, Molecular Cell Biology, Physiology and Neurobiology as well as Organic and Physical Chemistry. In my third year I will be focusing on Integrative Neuroscience, Oncology, Synthetic Biology and Principles of Development.

One highlight of the Biomedical Sciences course at Warwick University is the opportunity for in depth laboratory experience. Once the fundamental lab skills were developed, I was able to carry out the process of sample extraction and analysis working in collaboration with a lab partner. This included analysis of microbe colonies, genetic material, blood samples and ECG recordings.

Effectively communicating the findings of any study is an integral skill. I have been able to consolidate my ability for both verbal and written communication through various group and individual presentations (Viruses as a cause of multiple sclerosis, Analysis of a study in microbial reconstitution in social and synaptic deficient mice), written papers (Genetic and biochemical impacts on Parkinson's disease) and academic posters (Introducing *Leishmania infantum*).

My personal areas of interest throughout the degree are targeted towards the fundamental workings of the larger physiological systems in the body. I have specifically enjoyed studying neurobiology and immunology, as they both feature highly complex processes with extreme organisation. Gaining insight into these fields through developing pharmaceutical, genetic and behavioural therapies would be extremely valuable and rewarding.

EXTRACURRICULAR

Non-profit Magazine Curator 2023
I had the opportunity to contribute my own writing and concept illustrations, as well as design and curate a recurring segment, for Electric Eel Magazine, an independent non-profit project centring queer and trans culture. This project afforded me valuable experience in a creative professional setting and highlighted the significance of effective communication within a team to achieve goals on a deadline.

Discover Bath Research Programme 2020
Prior to my studies at the University of Warwick, I was selected to participate in the Discover Bath programme run by the University of Bath. The 8 week programme guided the students through the process of a simulated research project on potential anti-cancer drugs. It involved learning how properties of a candidate plant are extracted, tested, trialled and developed into pharmaceutical drugs. Being a part of the programme gave me an extremely valuable, firsthand insight into the research and development fields, as well as the handling of experimental data and construction of an academic paper.