



Liam Butler

Nationality: Irish | **Phone number:** (+353) 874391829 (Mobile) | **Email address:** butlerliam187@gmail.com |

LinkedIn: <https://www.linkedin.com/in/liam-butler-152425246>

● ABOUT ME

Aspiring animal breeding and genetics specialist with a strong foundation in quantitative genetics and genomic analysis. Currently, pursuing an MSc in Animal Breeding and Genetics at the University of Edinburgh, demonstrating a commitment to advancing knowledge in sustainable livestock production. Combines academic excellence with practical research experience, aiming to contribute to the improvement of animal health and productivity through innovative genetic strategies.

● WORK EXPERIENCE

06/2024 - 08/2024 Dublin, Ireland

GENETIC TECHNOLOGIST – CHILDREN'S HEALTH IRELAND

- Conducted genomic analysis using microarray platforms to assess gene expression, copy number variations, single nucleotide polymorphisms (SNPs), and other genetic markers
- Worked in a fast-paced, team-oriented environment, ensuring rapid turnaround times while maintaining precision and accuracy.

10/2021 - 03/2022 Dublin, Ireland

RESEARCH INTERN TRINITY COLLEGE DUBLIN – PROF. MCLYSAGHT'S LABORATORY

- As part of my undergraduate degree, completed a research project on stress responses in *C. elegans*. This allowed me to have my first taste of independent research.
- We focused specifically on autopolyploidy in *C. elegans*, artificially generating autopolyploids and comparing them to non-polyploids. More specifically we focused on the heat shock response through fluorescent reporters.
- My hard work and passion for this project were rewarded by the achievement of receiving a first-class honours (83%) and also receiving the top-graded project in my class.

06/2022 - 08/2022 Cusuco National Park and Tela Marine Site, Honduras

RESEARCH ASSISTANT – OPERATION WALLACEA

- Contributed to monitoring the overall health and well-being of biodiversity within the cloud forest of Cusuco National Park, named as a top 100 most irreplaceable locations on earth.
- Assisted in a broad range of surveys and techniques across the spectrum from invertebrates to large mammals, attempting to determine the impact of climate change and human encroachment on the region.
- Subsequently travelled to Tela Bay and completed a Caribbean reef ecology course on pristine reefs in the area. Studied fish, coral, and invertebrate identification through transects and benthic quadrats with the same goals as noted above.

05/2021 - 07/2021 Dublin, Ireland

RESEARCH INTERN TRINITY COLLEGE DUBLIN – PROF. LOANE'S LABORATORY

- Assisted in research related to microglial activation in the context of experimental Traumatic brain injury along with potential therapeutic interventions that target chronic neuroinflammation.
- Specifically, how microglia contribute to chronic neurodegeneration and cognitive decline after brain trauma.
- This research group sought to elucidate the molecular mechanisms that regulate microglial/macrophage function with the goal of manipulating these cells to attenuate destructive pro-inflammatory responses and promote neuroprotective pro-repair responses.

06/2019 - 07/2019 Iquitos, Peru

RESEARCH ASSISTANT - OPERATION WALLACEA

- Assisted in biodiversity and conservation monitoring in remote protected regions of the Amazon rainforest within Peru.
- Contributed to data collection and analysis with scientific professionals aiming to understand the long-term effects of climate change and human activity on the environment and people of the area.
- Engaged with the local community to understand problems rapidly arising as a result of a constantly expanding and developing world. Also aimed to understand possible solutions that could be presented to these remote regions.

● **EDUCATION AND TRAINING**

09/2024 - CURRENT Edinburgh, United Kingdom

MASTER OF SCIENCE IN ANIMAL BREEDING AND GENETICS The University of Edinburgh

- Coursework completed in Statistics and Data Analysis, Population Genetics, and Quantitative Genetics.
- Average of 80% from first semester results.

09/2018 - 10/2022 Dublin, Ireland

BACHELOR OF ARTS IN BIOLOGICAL AND BIOMEDICAL SCIENCES, SPECIALIZING IN GENETICS Trinity College Dublin

- Recipient of a First Class honors (1.1) graduating top of my class.
- Recipient of the James Watson Award, issued to the top incoming junior sophister genetics student.
- Coursework in Plant and Microbial Genetics, Analytical and Developmental Genetics, Genomics and Systems Biology, etc.

● **LANGUAGE SKILLS**

Mother tongue(s): **ENGLISH**

Other language(s): **IRISH**

● **VOLUNTEERING**

09/2023 - 08/2024 Ireland

ALONE Volunteer

- I volunteer on the National Referral and Support Line providing both emotional and practical support.
- Our callers are generally older people who benefit from companionship and community

09/2019 - 08/2022 Dublin

Meningitis Research Foundation Volunteer

- In August 2022, I climbed Mt Kilimanjaro in aid of the Meningitis Research Foundation (MRF), a charity that aims to raise awareness of both Meningitis and septicaemia.
- Combined, these two diseases are responsible for more deaths of children under 5 than malaria, measles, tetanus, and AIDS combined.
- Between 2019 and 2022 I raised over €4000 for essential research to be conducted with the aim of defeating meningitis by 2030.