

Owen Paupit

Headline

Statistics PhD interested in Bayesian and ecological statistics, looking at uncertainty propagation in biodiversity quantification.

Education and Research Experience

PhD Statistics, E5 DTP	2025 - 2029 (Expected)
The University of Edinburgh, National Environmental Research Council	
<ul style="list-style-type: none">• Thesis: Measuring the unmeasurable. Understanding uncertainty in biodiversity metrics• Supervisors: Dr. Torben Sell, Dr. Hannah Wauchope	
B.Sc (Hons) Computer Science and Mathematics, First Class	2021 - 2025
The University of Edinburgh	
<ul style="list-style-type: none">• Dissertation: A Hierarchical Bayesian Analysis of Racial Bias in UK Police Stop and Search• Supervisors: Dr. David Sterratt, Dr. Vanda Inacio De Carvalho, Prof. Finn Lindgren	
Research Intern, Mitacs	Summer 2024
McGill University	
<ul style="list-style-type: none">• Project: Ensemble Deep Learning for Genomic Prediction in Common Bean• Supervisors: Prof. Valerio Hoyos-Villegas, Isabellea Chiaravalotti	
A levels, Fallibroome High School	2019 - 2021
<ul style="list-style-type: none">• Computer Science A*, Mathematics A*, Physics A*, Chemistry A*	

Publications

Chiaravallotti, I., Paupit, O., & Hoyos-Villegas, V. (2025). **Environment ensemble models for genomic prediction in common bean (*Phaseolus vulgaris* L.).** *The Plant Genome*, 18, e70057. <https://doi.org/10.1002/tpg2.70057>

Invited Talks

Ethnic Bias in England and Wales Police Stop and Search – Can it be Explained by Relative Amount of Crime?

- Royal Statistics Society, Edinburgh Local Group May 2025
- Institute for Adaptive and Neural Computation April 2025

Teaching

Tutor, Demonstrator and Teaching Assistant	2023 - Present
The University of Edinburgh	
<ul style="list-style-type: none">• Lab demonstrator for data science and cognitive science courses up to 50 students• Tutor for probability and proofs course of up to 30 students• Development of course materials for data science course	
M.Sc Tutor	May 2025

The Royal Botanic Garden Edinburgh

- Developed and delivered a 3-hour introductory statistics workshop to the biodiversity and taxonomy M.Sc cohort

Relevant Skills

Applied Statistics and Machine Learning

- Fourteen different probability, statistics and machine learning courses at university
- Dissertation involved developing Bayesian hierarchical regression models for real-world data

Data Analysis and Visualisation

- American Statistical Association DataFest 2024 winner - Best Visualisation

Programming

- Almost a decade of programming experience in a range of languages, both high- and low-level, with a particular strength in Python and R

Volunteering

Committee Member (Tools Officer) and Task Leader

May 2025 - Present

Lothians Conservation Volunteers

- Manage the charity's toolshed and inventory
- Lead conservation tasks of up to 12 volunteers, ensuring safety in possibly remote locations

Conservation Volunteer

Lothians Conservation Volunteers

March 2024 - Present

Morgan Arboretum, McGill University

May 2024 - July 2024

- Weekly commitment to maintaining and improving biodiversity in both Scotland and Canada
- Work includes controlling invasive species, tree planting, bog maintenance, pond work and cutting fire breaks

Volunteer Fundraiser

October 2021 - June 2022

Dig Deep, The University of Edinburgh

- Independently raised £2820 in total
- Organised a series of bake sales
- Completed various physical feats including: walking from Edinburgh to Glasgow in a day; finishing 10th in a 30 mile, 10 000 ft climb, mountain race and reaching the summit of Mount Kilimanjaro.

Volunteer Computing Department Support

September 2019 - August 2021

Fallibroome High School

- Co-leader of Python coding club for children aged 12-13
- Teaching Assistant for GCSE Computer Science

Volunteer Swimming Instructor

January 2017 - March 2020

Macclesfield Amateur Swimming Club

- Taught children aged 3-16 of all abilities and a range of neurodivergent conditions
- Held sole responsibility for two classes that ran weekly

Certifications

Outdoor Emergency First Aid

Issued December 2023, Expires December 2026

British Ambulance of Ski Patrollers, Edinburgh University Mountaineering Club

- Various outdoors oriented first aid skills, including Cardiopulmonary Resuscitation (CPR)