




Moray Smith

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Education

University of St Andrews, PhD Sept. 2020 - Sept. 2024

- Thesis: “Applications of next-generation sequencing towards resistance gene identification”

University of Glasgow, BSc (Hons) in Molecular & Cellular Biology 2016-2020

Experience

Postgraduate Researcher Dundee, UK

James Hutton Institute 2020-2024

- Developed a suite of high-throughput Snakemake workflows to assemble, extract, and analyse disease resistance genes from enrichment sequencing data
- Software utilised by PhD and undergraduate researchers based at the James Hutton Institute
- Preparation of DNA and RNA samples for enrichment sequencing with Illumina and Pacbio sequencing platforms

Capacity Building of Nematology in Sub-Saharan Africa Ghent, Belgium

Ghent University 2021-2021

- Teaching statistics at UGent for the International Master of Science in Agro- and Environmental Nematology (IMaNema) programme
- Editing a textbook for the IMaNema programme encompassing Nematology, Agronomy, and Molecular Biology
- Placement at Moi University in Kenya setting up a Nematology laboratory and training students on basic Nematology skills. Assessment of IMaNema student placement projects

Publications

Awards

- Open Science Award, 2024, *James Hutton Institute*
- Travel bursary, 2023, *European Society of Nematologists*
- Brian Kerry Prize, 2022, *Association of Applied Biologists*
- Chief Executive Presentation Prize, 2022, *James Hutton Institute*
- SEFARI Showcase Presentation Prize, 2022, *SEFARI*
- Poster Presentation Prize, 2021, *James Hutton Institute*
- Cancer Essay Prize, 2019, *University of Glasgow*
- JISC EdTech Challenge Prize, 2019, *JISC*
- Head of College Scholars List, 2018, *University of Glasgow*
- Head of College Scholars List, 2017, *University of Glasgow*

Teaching and Supervision

Gatsby Plant Science Summer studentship

Dundee, UK

James Hutton Institute

Sep 2023 - Sep 2023

- Supervision of a Gatsby Summer Studentship project
- Oxford nanopore sequencing 16s metabarcoding of soil microbiomes
- Developed an automated Snakemake workflow encompassing basecalling, demultiplexing, QC, and Emu + phyloseq microbiome summarisation
- Utilisation of GitHub and version control for software development

Academic Skills Project

St Andrews, UK

University of St Andrews

Sep 2021 - Feb 2023

- Organisation and running of academic skills workshops
- Designed, advertised, and executed workshops for undergraduate students
- Topics included R and figure design, the peer review system, and reference management software

Lab demonstrator

St Andrews, UK

University of St Andrews

Sep 2021 - Feb 2023

- BL1101 Basic Lab Skills; BL2309 Genomics, Infectious diseases, and Proteomics; BL3320 Statistics and Quantitative Skills for Biologists; BL4273 Computational Genomics
- Demonstrating, grading, and coursework design