

Samuel Edwards

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SKILLS

Computational Python (NumPy, pandas, matplotlib) | R | UNIX / HPC | GraphPad Prism | Fiji / ImageJ | BioRender | Excel | L^AT_EX

Laboratory western blotting | PCR | gel electrophoresis | cell culture & transfection | restriction digest | immunohistochemistry | fluorescence microscopy | CRISPR sgRNA design

EDUCATION

MSc Cancer *Commencing September 2026*
University College London (UCL)

BSc Biomedical Science *September 2023 – June 2026*
University of Sheffield

- Expected First-Class Honours (Second-year average: 76%).
- Relevant modules: Cancer Biology; Pharmacology; Biomedical Technology & Drug Development; Clinical Genomics of Cancer and Rare Genetic Diseases; Advanced Molecular Cell Biology.
- Dissertation: Deterministic modelling of the ceRNA hypothesis in Python.
- Secretary, Arm Wrestling Society.

Secondary Education *September 2016 – June 2023*
Hampton Boys' School

- A Levels: A* Geography, A Biology, B Chemistry; A Psychology (AS).
- Art Scholarship.
- Rotary Prize for Environmental / Scientific Advancement.

RELEVANT EXPERIENCE

NHS Rare Disease Diagnostics Placement *September 2025 – Present*
Julia Garnham Centre

- Trained in genomic variant classification under the ACGS Best Practice Guidelines (2024), covering interpretation frameworks used across NHS diagnostic laboratories.
- Awarded in-house competence certification by the Sheffield Diagnostic Genetics Service for first-check variant interpretation.
- Reclassified three historic cases of Spastic Paraplegia 4 (SPG4), directly contributing to updated patient diagnostic records.

Python for Statistics *June – July 2025*
Sungkyunkwan University, Seoul

- Grade: A* (97%).
- Applied Python (NumPy, pandas, matplotlib) for exploratory data analysis, statistical testing, and data visualisation; introductory exposure to supervised and unsupervised machine learning.

OTHER EXPERIENCE

Bar Staff, FoundrySU Student Venue *December 2025 – Present*

Team Member, Gail's Bakery *November 2021 – September 2023*