

# Curriculum Vitae

James Morris

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†[GitHub Portfolio](#)

## Profile

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MSci Genetics with Data Science graduate passionate about data-driven and solution-oriented problem solving. Experienced in applying R for biological data analysis, with a strong basis in molecular biology and bioinformatics. Proficient in translating complex datasets into meaningful insights.

## Relevant Experience

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### **MSci Candidate | Leibniz FMP Berlin | September 2023 - July 2024**

- Independent research project in AG Fiedler, Leibniz FMP
- Chemical biological approach to illuminate mechanisms of protein pyrophosphorylation
- Key methods: molecular biology techniques, peptide synthesis, MS/MS analysis in R, HPLC
- Coursework: research thesis, literature review

### **BSc Student | University of Glasgow | September 2020 - June 2025**

- Year 4 Modules: Core Genetics, Complex Genetic Traits, Bioinformatics and Statistics with R
- Key molecular biology techniques: PCR, RT-qPCR, bacterial transformation, SDS-PAGE/AGE, expression cloning, RNAi, restriction digests
- Laboratories: Genetic interaction analysis in *S. pombe*, CRISPR-Cas9 in C2C12 model, RNAi and mutational analysis in *C. elegans*, UV-B responsive regulation of gene expression in *A. thaliana*

### **Research Intern | Glasgow Caledonian University | July - August 2018**

- Supervisor: Dr Fiona Kerr
- Focus: Downstream targets of Nrf2-mediated neuroprotection in Alzheimer's Disease.
- Key methods: RT-qPCR and analysis of gene expression

## Skills

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- R language (tidyverse, BioConductor), Bash, Python (basic), molecular biology techniques, German language (B2), Office 365 suite, project management, communication

## Education

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### University of Glasgow | MSci Genetics with Data Science | 2020 - 2025

- 4-year BSc degree, 1-year integrated MSci placement
- MSci Results: **A5** (82%) - First Class-equivalent
- BSc Dissertation: Investigating genetic interaction in Fission Yeast - **A3** (91%)
- Recipient of Undergraduate Talent scholarship
- Year 3 Genetics class representative

### Inverclyde Academy | 2013 - 2019

## Achievements

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- *Dux* of Inverclyde Academy 2018 – top-ranking S5 student
- Inverclyde Music Festival 2019 winner – highest performance mark district-wide
- Inverclyde Recruit 2019 winner, a local program featuring 30+ business challenge days
- Young Enterprise 2019 winner - best Inverclyde team, social media presence, and business report

## Other Work Experience

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- Cancer Research UK | Volunteer | August – September 2022
- Tesco | Customer Assistant | September 2021 – May 2022
- McDonalds | Crew Member | February – September 2021
- Amazon | Warehouse Operative | April – August 2020
- Kilpatrick Blane Services Ltd | Servicing administrator | September 2019 – March 2020
- B&Q | Customer service assistant | June – September 2019

## Interests

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- Classical and acoustic guitar (grade 8), languages (B2 German, A1 Arabic and French), travelling, tea-blending, configuring Linux setup