Personal details

Name
Julia Hawkins

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LinkedIn
linkedin.com/in/julia.hawkins.89

Website
github.com/julia-hawkins-physics

Skills

Experimental design

Communication

MATLAB

Python

Scientific reporting

Trend analysis

Quantitative modelling

Data analysis

Data visualisation

Statistical analysis

Laboratory experiments

Professional memberships

Student Member – Institute of Physics (IOP)
2022 - present
Participate in physics seminars, career events, and professional networking opportunities to stay informed about developments in the UK physics sector.

Julia Hawkins

Physics graduate with a strong foundation in data analysis, computational modelling, and experimental research. Experienced in using Python and MATLAB to analyse scientific data and support research projects during university studies. Skilled in problem-solving, statistical analysis, and communicating technical findings clearly. Seeking an entry-level physicist, research assistant, or data-focused role where I can apply analytical and programming skills in a professional research or technology environment.

Work experience

Physics Research Intern
2025 - Present

University of Durham, Durham

Support academic researchers with experimental data collection and computational analysis during a summer research placement. Assist with analysing datasets, documenting results, and preparing research summaries for project meetings.

- Analysed experimental datasets using Python, helping identify trends that supported ongoing research analysis
- Assisted with preparing research summaries and data visualisations for weekly project meetings

STEM Tutor
2023 - 2025

BrightFuture Tutoring, Darlington

Provided tutoring in physics and mathematics to GCSE and A-level students while completing university studies. Explained complex scientific concepts in a clear and structured way to improve student understanding.

- Supported more than 10 students in improving their physics and mathematics performance across GCSE and A-level exams
- Developed structured lesson plans and revision materials to simplify complex physics topics

Education

MSc Physics
2025 - Present

University of Durham, Durham

Relevant modules: Computational physics | Data analysis | Statistical mechanics | Advanced laboratory techniques

BSc Physics
2021 - 2024

University of Newcastle, Newcastle

Projects

BSc Dissertation - Computational Modelling of Photonic Materials University of Newcastle, 2024
Completed a final-year undergraduate research project analysing experimental datasets using Python to model photonic material behaviour. Applied computational techniques to explore theoretical concepts and interpret experimental results under academic supervision.

- Used Python to analyse experimental datasets and test simple simulation models
- Created data visualisations to identify trends and support interpretation of results
- Presented findings through a written dissertation and final-year project presentation.