

Albert Stark

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albert10032.github.io

Darlington, Sydney, Australia
Born in London, United Kingdom

Experience

► UWL PESU admin

Nov 2023 to Dec 2023, UWL Ealing campus

A data handling role where I managed the student expenses claims for nursing students on residency around London and Reading

Education

► University of Sydney

Bachelor of Science

Major: Mathematics, Minor: International Relations

February 2024 to Present, Camperdown/Darlington, Sydney, Australia

Distinction WAM

► The Oratory School

GCSE & A Levels

2016 to 2023, Woodcote, Nr Reading, UK

AAB at A Levels, 9-7 at GCSE

Projects

► Better primitive roots modulo p

Supervised by: John Voight, Sem 1 2026

An investigation in optimising the algorithms in Magma for finding primitive roots.

► Neuronal dynamics and the Connor-Stevens model

github.com/USYD-MATH3888-2025-Group-9/model-implementation

The concluding project for the Mathematics part of my B.Sc, working as a group I and 3 other students were able to demonstrate some interesting behaviour in the Connor-Stevens model for neurons, and characterise the physicality of this behaviour

► Factorisation

github.com/Albert10032/factorisation

An attempt to implement a general factorisation algorithm

Volunteering

► Sydney University Mathematics Society (SUMS)

Dec 2025 to Present, USU/USYD

I am a member of the Operations subcommittee, where I help to organise academic events, including the weekly seminar where PhD students, faculty members and guests give talks aimed at first year undergraduate students

► **USYD Puzzle Society**

April 2024 to Present, USU/USYD

I have been involved in running Puzzlesoc since I was in first year, when I joined as a subcommittee member for writing in April 2024. I went on to become editor-in-chief at the start of 2025 and the secretary in April of 2025. I stepped down from editor-in-chief at the end of 2025 and continue in the role of secretary, though I do contribute to puzzles occasionally.

► **Sydney University Judo Club (SUJC)**

August 2025 to Present, SUSF/USYD

I am a subcommittee member for Judo, and have represented the University at national level events.

Certifications

► **First aid**

HLTAID009: Provide CPR, **HLTAID010:** Provide basic emergency life support,

HLTAID011: Provide First Aid

Skills

► **Computer skills**

C, C++, Python, Bash, **Magma**, SageMath, \LaTeX , Linux, Jupyter notebooks, HTML/CSS

► **Languages**

Japanese (\approx N3), Latin (GCSE), Elementary Persian and Chinese

References

Available upon request