Albert Stark

albert3@mailfence.com   albert10032.github.io   Darlington, Sydney, Australia

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.

Date : 26 December 2025

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