

AARON MANNING

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Sydney, Australia

EDUCATION

Feb 2021 - Nov 2024 **BSc Advanced Mathematics (Honours)**

University of New South Wales

First Class Honours and the University Medal

Honours thesis entitled “Counting Matrices Over Finite Rank Multiplicative Groups and Smooth Numbers” under the supervision of Alina Ostafe and Igor Shparlinski.

Overall Weighted Average Mark: 92.5

Thesis Mark: 97

TEACHING EXPERIENCE

Sep 2024 - Present **Computer Science Tutor**

University of New South Wales

COMP6991 (Solving Modern Programming Problems with Rust): 2024T3, 2025T1

COMP3121/9101 (Algorithm Design and Analysis): 2025T2

Sep 2023 - Present **Mathematics Tutor**

University of New South Wales

MATH7777 (Drop-In Centre): 2023T3, 2024T1, 2024T2, 2024T3, 2025T1, 2025T2

MATH1131 (Mathematics 1A): 2025T1, 2025T2

MATH1231 (Mathematics 1B): 2025T2

MATH1081 (Discrete Mathematics): 2025T2

INDUSTRY EXPERIENCE

Dec 2022 - Jun 2024 **Development and Programming Officer (APS3)**

Australian Bureau of Statistics

Technology and Security Division

Mar 2021 - Dec 2022 **Associate Developer**

Argo Logic

ACADEMIC AWARDS

2025 **Pure Mathematics University Medal**

University of New South Wales

2024 **The George Szekeres Prize**

University of New South Wales

For the best performance in Mathematics leading to Honours in Pure Mathematics.

2024 **School of Mathematics and Statistics Advanced Maths Honours Scholarship**

University of New South Wales

2021, 2022, 2023 **Faculty of Science Dean’s Award**

University of New South Wales

For performing in the top 100 Science students.

PUBLICATIONS

RESEARCH

A. Manning, A. Ostafe, and I. Shparlinski, “Counting matrices over finite rank multiplicative groups,” *Preprint*, (February 10, 2025), (available at: <https://arxiv.org/abs/2502.07100>).

TALKS

- Nov 2024* **Counting Matrices Over S -Units and Smooth Numbers**
Pure Mathematics Seminar - University of New South Wales
- Mar 2025* **A Tour of Social Choice Theory**
HDR Seminar - University of New South Wales