

Simon N. Thomas

CONTACT INFORMATION `s.n.thomas@student.uq.edu.au`
`https://simonnthomasmaths.github.io`

EDUCATION **The University of Queensland**
PhD, 2024-present
Research area: Analytic Number Theory
Supervisor: Adrian Dudek

The University of Melbourne
Master of Science (Mathematics and Statistics), 2020-2022
Thesis: *Unramified Theta Correspondence for Unitary Groups*
Supervisor: Chenyan Wu

The University of Melbourne
Bachelor of Science (Mathematics and Statistics), 2017-2019

EXPERIENCE **School of Mathematics and Physics, University of Queensland**
Tutor, 2025-present
Subjects: Multivariate Calculus & Ordinary Differential Equations

The University of Queensland
Global Change Scholar, 2024-2025
Worked with Healthy Land and Water

Certus Solutions
Junior Software Engineer in Test, 2022-2023

The University of Melbourne
Vacation Scholar, 2020
Project: *Hamiltonicity of Honeycomb Toroidal Graphs*
Supervisors: Sanming Zhou and Binzhou Xia

Walter and Eliza Hall Institute of Medical Research
Undergraduate Research Student in Bahlo Laboratory, 2018-2019

Tutoring for Excellence
High School Tutor, 2017
Subjects: Maths, Physics, Chemistry, Biology

PUBLICATIONS **Mathematics**
1. The sum of a prime power and an almost prime, To appear in *Forum Math.*,
(with D. R. Johnston).

Bioinformatics
1. A survey of RNA editing at single cell resolution links interneurons to schizophrenia and autism, *RNA*, 2021, 27(12):rna.078804.121 (with B. R. E. Ansell, R. Bonelli, J. E. Munro, S. Freytag, M. Bahlo)

2. First report of RNA editing in human retina - a process central to photoreceptor health, and a risk factor for both AMD and rarer macular degeneration, *Invest. Ophthalmol. Vis. Sci.*, 2024, 65(7):3314 (with B. R. E. Ansell, R. Bonelli, A. Manda, R. Ratnapriya, M. Pinelli, A. Swaroop, D. diBernardo, S. Banfi, M. Bahlo)

TALKS

RNA Editing in the Human Retina, UROP Conference, Melbourne (July 2019).

Hopf Algebras, Irreducible and Primitive Elements, Representation Theory Student Seminar, University of Melbourne (December 2020).

Global Hecke Algebras, Number Theory Seminar, University of Melbourne (April 2021).

Theta Series, Number Theory Seminar, University of Melbourne (September 2021).

Unramified Theta Correspondence for Unitary Groups, MSc. Final Presentation, University of Melbourne (May 2022).

Sieve-Theoretic Rao Theorem, Joint Meeting of the NZMS, AustMS and AMS, University of Auckland (December 2024).

Sieve Theory and Almost Primes, Graduate Student Seminar, University of Queensland (May 2025).

CONFERENCES ATTENDED

Number Theory Down Under (2024), La Trobe University, Bendigo.

Joint Meeting of the NZMS, AustMS and AMS (2024), University of Auckland, Auckland.