



PROFILE

Pure mathematician nearing completion of an ambitious PhD that forges a fundamental bridge between two deeply abstract and previously distinct areas of pure mathematics – complex geometry and algebraic K-theory – laying the foundation for decades of new mathematical research to be built upon. Extensive mathematical research training has honed my ability to quickly master complex concepts and dive deep into new and diverse areas of study, and allows me to identify and develop intricate connections across new and varied problem-solving domains. Eager to translate my analytical and logical skills into the world of quantitative research. Exceptional communicator with demonstrated ability to convey technical, complex concepts to a spectrum of audience levels. Experience collaborating on diverse teams on both outreach and academic projects. Highly skilled in solving mathematical problems through a blend of teamwork and focused, independent effort.

CONTACT DETAILS

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📍 Melbourne, Australia

SKILLS

- Advanced proficiency in research mathematics
- Expertise in problem-solving
- Strong analytic reasoning and attention to detail
- Effective communication and presentation skills
- Collaboration and conference organisation

EDUCATION

DOCTOR OF PHILOSOPHY IN PURE MATHEMATICS AT *University of Adelaide and University of Melbourne.* Aug 2020 – Aug 2024

- Thesis: The Oka Principle in Higher Twisted K-Theory.
- Supervisors: Prof. Finnur Lárusson, Prof. Christian Haesemeyer, A/Prof Diarmuid Crowley.

MASTER OF PHILOSOPHY IN PURE MATHEMATICS AT *University of Adelaide.* Aug 2017 – Mar 2020

- Thesis: Holomorphic Immersions of Open Riemann Surfaces into the Complex Plane.
- Supervisor: Prof. Finnur Lárusson.
- Awarded **Dean’s Commendation** for Master by Research Thesis Excellence.

BACHELOR OF SCIENCE 2014 – 2017

- University of Melbourne.
- Specialisation: Pure Mathematics.

PROFESSIONAL EXPERIENCE

TEACHING ASSISTANT at *University of Adelaide and University of Melbourne.* 2022 – Present

- Led tutorial sessions, computer lab workshops and graded assignments for undergraduate mathematics courses, helping guide and shape students’ first forays into abstract mathematics.

OUTREACH AND ENGAGEMENT

- Co-delivered MathsCraft workshop aimed at teaching high school teachers to approach problem-solving with a research-oriented mindset. 2021
- Co-organised the International Women in Maths Day Conference with an extensive outreach component. 2019
- Numerous university-affiliated outreach mathematics events aimed at promoting mathematical thinking and engagement. 2018 – 2022

CONFERENCE CO-ORGANIZER at *International Women in Maths Day Conference SA.* 2019

- Collaboration of the University of Adelaide, University of South Australia, and Flinders University.

PRESENTATIONS AND SEMINARS 2018 – Present

- Delivered numerous (in excess of 30) presentations in a variety of academic seminars targeted at undergraduate students, graduate students, and faculty. Topics have varied from highly technical complex geometry and abstract algebra aimed at experts, to translating high-level geometry into more intuitive illustrations for non-experts, to much broader musings such as on the relationship between literature, music and mathematics.

SELECTED AWARDS AND HONORS

DEAN’S COMMENDATION FOR MASTER BY RESEARCH THESIS EXCELLENCE at *University of Adelaide.* 2020

CHOOSEMATHS GRANT 2019

- Granted by the Australian Mathematical Sciences Institute (AMSI) to support participation in advanced mathematics education and research activities.

GRADUATE RESEARCH SCHOLARSHIP at *University of Adelaide.* 2020 – 2023

- Awarded a competitive scholarship for doctoral studies in pure mathematics.