Patrick Donovan



Curriculum Vitae

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Education

Oct 2026 – **Doctor of Philosophy in Mathematics, University of Oxford**
Supervisors: Andrew Dancer and Jason Lotay

Apr 2024 – Jun 2026 **Master of Mathematics by Research, University of New South Wales**
Thesis title: Ancient and Immortal 4-dimensional Ricci flows with symmetry
Supervisors: Timothy Buttsworth and Michael Cowling
Papers: Cohomogeneity one 4-dimensional gradient Ricci solitons
Journal of Geometric Analysis, vol. 25, no. 401 (2025)

Mar 2020 – Dec 2023 **Bachelor of Mathematics Honours (Class I), University of Queensland**
University Medal: Awarded to graduates who achieve outstanding academic results for the duration of their program – typically to the top 5% of class I graduates.

Jan 2015 – Dec 2019 **Queensland Certificate of Education, Sunshine Coast Grammar School**
DUX of the school: Awarded to the student with highest results in your graduating year

Academic Awards

Awarded UQ University Medal 2024
Dean's Commendation for Academic Excellence 2020-2023 semester 1 and 2
Winner of UQ team mathematics competition 2022/23
Emmanuel College Principals Medal 2021
Awarded Maude Walker Prize 2020
Sunshine Coast Grammar DUX 2019

Seminar Presentations

Conference Talks

May 2026 **MATRIX research program**, "PhD Student Symposium"
Feb 2025 **MATRIX research program**, "Geometric Analysis and Symmetries"

Seminars

Feb 2027 **University of Warwick**, Junior Analysis Seminar
Jul 2026 **AMSI winter school**, Student Presentations
Jun 2026 **University of Wollongong**, Geometric Analysis Seminar
Dec 2025 **King's College London**, Analysis Seminar
Dec 2025 **University of Oxford**, Geometry and Analysis Seminar
Oct 2025 **Australian National University**, Differential geometry seminar
Oct 2025 **Virtual Seminar**, Virtual seminar on geometry with symmetries
Aug 2025 **University of Sydney**, Analysis seminar
Aug 2025 **University of New South Wales**, Postgraduate seminar
May 2025 **University of New South Wales**, Research students' mathematics seminar
Apr 2025 **University of New South Wales**, Pure mathematics seminar
Mar 2025 **Virtual Seminar**, Australian geometric PDEs seminar 2025
Mar 2025 **University of California, Santa Barbara**, Differential geometry seminar
July 2024 **University of New South Wales**, Postgraduate seminar
Oct 2023 **University of Queensland**, Analysis seminar
June 2023 **University of Queensland**, Analysis seminar
Feb 2022 **Virtual Seminar**, AMSI vacation research presentation

Work History

May 2024 – **Tertiary Mathematics Tutor**
Aug 2026 University of New South Wales
Led small-group and classroom tutorials and coordinated exam sessions.

Dec 2025 – **Quantitative Trader Intern**
Feb 2026 Jane Street, Hong Kong
Jane Street is a world leading quantitative trading firm.

Mar 2022 – **Tertiary Mathematics Tutor**
Jun 2024 University of Queensland
Led classroom tutorials.

Mar 2022 – **Tertiary Mathematics Tutor**
Dec 2023 Emmanuel College
Led small-group tutorials.

July 2021 – **Highschool Tutor**
Nov 2023 Two Tutors, Brisbane, QLD
Personal senior STEM tutor

Nov 2022 – **Data science Intern**
Feb 2023 Veitch Lister Consulting
Assisted in developing and analysing traffic models using **Python.**

Nov 2021 – **Student Academic**
Feb 2022 Australian Mathematical Sciences Institute: Vacation Research Scholarship
Delivered a focused presentation of original research on a class of Einstein manifolds.

Nov 2018 – **Data Science Work Experience**
Dec 2018 Tennis Australia, Melbourne, VIC – supervised by Dr. Stephanie Kovalchik
Foundational programming skills in **Python** and **R**

Mar 2017 – **Assistant Tennis Coach**
Oct 2018 Zoran's Tennis Academy, Nambour, QLD