

EDUCATION

- 2020-present **Doctor of Philosophy (Science)**
The University of Sydney
Thesis: Curvature Estimates for Geometric Deformation Equations.
- 2016 – 2020 **Bachelor of Science (Advanced Mathematics) (Honours)**
The University of Sydney
- Honours in Pure Mathematics: Class I
 - Major in Mathematics and Physics: Distinction Average
 - Thesis: Classification and Existence of Singular Solutions to Non-Linear Elliptic Equations (Supervisor: A. Prof Florica Cirstea)

PUBLICATIONS

- 2022 "Curvature Estimates for the Continuity Equation" - *Communications for Contemporary Mathematics*, Vol. 25, No. 9.
- 2023 "Calabi Symmetry and the Continuity Method" - *International Journal of Mathematics*, Vol. 34, No. 12.
- 2023 "Independence of Singularity Type for Numerically Effective Kähler-Ricci Flows" - preprint: <https://arxiv.org/abs/2308.12527>.

TEACHING EXPERIENCE

- 2022 – present **Postgraduate Teaching Fellow**
School of Mathematics and Statistics, The University of Sydney.
- Developed and lectured Mathematics component of PHAR1813.
 - Teaching support: MATH1002, MATH1021, MATH1023.
- 2019 – 2022 **University Tutor**
School of Mathematics and Statistics, The University of Sydney.
- MATH1002 Linear Algebra.
 - MATH1021 Calculus Of One Variable.
 - MATH1023 Multivariable Calculus and Modelling.
 - MATH2021 Vector Calculus and Differential Equations.
 - MATH2023 Analysis.
 - MATH2061 Linear Mathematics and Vector Calculus.

CONFERENCE TALKS

- December 2021 **65th Annual Meeting of the AustMS**
- Online, hosted at the University of Newcastle
 - Talk Title: Curvature Estimates for the Continuity Method
- November 2022 **Geometric Analysis Workshop**
- University of Wollongong
 - Talk title: "Curvature control for the Continuity Method".
- December 2022 **66th Annual Meeting of the AustMS**
- The University of New South Wales
 - Talk Title: "Calabi Symmetry and the Continuity Method"

- June 2023* **Geometric Analysis Workshop**
- The Australian National University
 - Talk Title: "Independence of Singularity Type for Numerically Effective Kähler-Ricci Flows"
- July 2023* **International Conference on Nonlinear Partial Differential Equations - Trudinger 80th Birthday**
- The Australian National University
 - Talk Title: "Independence of Singularity Type for Numerically Effective Kähler-Ricci Flows"

AWARDS AND SCHOLARSHIPS

- Scholarships**
- Research Training Program (2020 - 2023)
 - Denison Research Summer Scholarship (2018)
- Awards**
- David GA Jackson Prize (2019)

OTHER ACADEMIC ACTIVITIES

- June 2022* Attended MSRI Summer School on Geometric Flows
Crete, Greece
- November 2022* Gave a talk at MaPs seminar
Talk Title: "Geometric Flows"
The University of Sydney
- Decemebr 2022* Assisted with creating informational videos to assist the transition from highschool to university level maths.
The University of Sydney
- July 2023* Gave a talk at the Geometry and Topology Seminar
Talk Title: "Topological Consequences of the Kähler-Ricci Flow"
The University of Sydney

SKILLS

- Languages** English – Native
Chinese – HSK2
- Programming Languages** Python, R, Matlab, C, Java