

## EMPLOYMENT

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2024-2025 **Visiting Assistant Professor**  
Cornell University

2022 – 2024 **Postgraduate Teaching Fellow**  
School of Mathematics and Statistics, The University of Sydney.

- Developed and lectured Mathematics component of PHAR1813.
- Teaching support: MATH1002, MATH1021, MATH1023.

## EDUCATION

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2020-2024 **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.  
“Classification and Existence of Singular Solutions to Non-Linear Elliptic Equations”
- Major in Mathematics and Physics

## SKILLS

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**Programming Languages** Python, R, SQL.

**Data Analysis** Regression, Random Forests, K-Means Clustering, PCA, Support Vector Machine, Timeseries Analysis, K-Cross Validation, Bootstrapping, Data Visualisation, Inference.

**Languages** English – Native  
Chinese – HSK2

## PUBLICATIONS

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2024 “Singularity Type for Long Time Chern Ricci Flows”  
Preprint: <https://arxiv.org/abs/2408.12797>.

2023 “Independence of Singularity Type for Numerically Effective Kähler-Ricci Flows” - To appear in *Geometry and Topology*.

2023 “Calabi Symmetry and the Continuity Method” - *International Journal of Mathematics*, Vol. 34, No. 12.

2022 “Curvature Estimates for the Continuity Equation” - *Communications for Contemporary Mathematics*, Vol. 25, No. 9.

## CONFERENCE TALKS

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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”.

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| <i>December 2022</i> | <b>66th Annual Meeting of the AustMS</b> <ul style="list-style-type: none"> <li>• The University of New South Wales</li> <li>• Talk Title: "Calabi Symmetry and the Continuity Method"</li> </ul>   |
| <i>June 2023</i>     | <b>Geometric Analysis Workshop</b> <ul style="list-style-type: none"> <li>• The Australian National University</li> <li>• Talk Title: "Independence of Singularity Type for Numerically Effective Kähler-Ricci Flows"</li> </ul>  |
| <i>July 2023</i>     | <b>International Conference on Nonlinear Partial Differential Equations - Trudinger 80th Birthday</b> <ul style="list-style-type: none"> <li>• The Australian National University</li> <li>• Talk Title: "Independence of Singularity Type for Numerically Effective Kähler-Ricci Flows"</li> </ul> |

**AWARDS AND SCHOLARSHIPS**

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| Scholarships | <ul style="list-style-type: none"> <li>• Australian Research Training Program. 2020 - 2023</li> <li>• Denison Research Summer Scholarship. 2018</li> </ul> |
| Awards       | <ul style="list-style-type: none"> <li>• David GA Jackson Prize. 2019</li> </ul>   |