

# BENJAMIN KRUGER

(+61) 439 · 704 · 707 ◊ bskruger2002@gmail.com

## EDUCATION

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**2020 – 2024** Bachelor of Advanced Science with Honours (Class I), The University of Queensland, Australia.  
Undergraduate Thesis: *The Ricci flow on Homogeneous Superspaces.* GPA: 6.781/7

## SCHOLARSHIPS AND AWARDS

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- 2023** University of Queensland University Medal  
Awarded to the top 5% of first class honours graduates across the entire university.
- 2020 – 2023** Dean's Commendation for academic excellence  
Awarded to students for outstanding academic achievement
- 2022** Australian Mathematical Sciences Institute Vacation Research Scholarship  
Competitive scholarship awarded to students who have been accepted into the AMSI research program

## EXPERIENCE

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- Feb 2021 – March 2024** Teaching Assistant, The University of Queensland  
Duties included: marking assignments, invigilating exams, and running tutorials for courses in analysis, algebra, and geometry.
- April 2024 – Present** Data Analyst, Cubiko  
Duties include: developing and maintaining data pipelines with tools such as Clickhouse, DBT, CUBE.js, Airflow, and Python.

## MATHEMATICAL WRITING

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- The Ricci flow on homogeneous superspaces  
Honours thesis 2023, supervised by Artem Pulemotov and Yang Zhang
- An introduction to supergeometry  
AMSI summer project 2022, supervised by Artem Pulemotov
- The prescribed cross-curvature problem on three-dimensional unimodular Lie groups  
Summer research project 2021, supervised by Artem Pulemotov

## PRESENTATIONS

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- 2023** Honours Presentation (The University of Queensland)  
The Ricci flow on homogeneous supermanifolds
- 2023** AMSI Connect (The University of Melbourne)  
An introduction to supergeometry
- 2022 – 2023** Analysis Seminar (The University of Queensland)  
Various topics
- 2022** Summer Research Presentation  
The prescribed cross-curvature problem on three-dimensional unimodular Lie groups