


Brice Arrigo

Mathematics Honours Graduate

 [GitHub](#)  [LinkedIn](#)

I am a pure mathematician, interested in enumerative combinatorics. I completed my honours degree in June 2024. During my studies I cultivated my passion for mathematics, and now seek to apply it to real world problems. In my career, I desire to be constantly challenged with interesting problems and be surrounded by talented people.

EDUCATION

The University of Melbourne  | Master of Science (Maths and Stats) June - 2025

- Beginning my Masters in semester two of 2025.

Monash University  | Bachelor of Science (Honours) 2023-2024

- Completed research under supervision of Norman Do. Completed coursework units of algebraic topology, differential geometry, geometric group theory, measure theory, and representation theory.
- My thesis introduced a new family of deformations of monotone Hurwitz numbers. This required me to independently learn many new areas of maths, which are not covered in any undergraduate or graduate training.
- Currently writing a paper related to my thesis with my supervisor.

Monash University  | Bachelor of Science Extended Major in Pure Mathematics 2020-2023

- Completed maths units covering a wide range of disciplines. Abstract algebra (groups/rings/fields), topology (pointset/algebraic/low-dimensional), differential geometry, analysis (real/complex/functional), probability and mathematical statistics.
- Completed group projects for maths, computer science and science communications units. These units enhanced my solo studies as I gained a better understanding by needing to clearly explain concepts to fellow students.

EXPERIENCE

Freelance Writer | Freelance 2025-Present

- Currently working as a freelancer for Oxford University Press. Reviewing all LaTeX for year 7, 8, 9 and 10 textbooks and creating answer templates for QCE physics, chemistry, biology, and psychology.

Teaching Associate | Monash University 2024

- Supported the School of Mathematics in the Mathematics Learning Center.

Deloitte Summer Vacation Program  | Data and AI - Computer Vision Jan-Feb 2024

- I was on a team within Deloitte's Data and AI department called the CV-Crew, within that team I was on a project related to providing a computer vision solution to a customer who needed to detect license plates of vehicles which were speeding on their premises.
- I cleaned up provided training data for our model, labelled bounding boxes using AWS SageMaker Ground Truth, and partitioned data into test/train/val sets. I also gained experience with AWS services such as EC2 and S3.
- During this I gained experience with important Python libraries for computer vision, such as open-cv, Pillow, TensorFlow and Keras.

SKILLS

Programming

- Python/SageMath. Completed computer science units where the main language was Python. I've implemented algorithms from my research (cut-and-join style recursion for deformed monotone Hurwitz numbers) in python to collect large amounts of data for making conjectures. Experienced with numerical analysis.
- Git. Managed codebase for my honours research project with Git, creating and merging branches and resolving conflicts.
- Proficient Excel for data extraction, transformation and modelling.
- Proficient with Power BI for Dashboarding and data visualisation

Mathematics

- My pure mathematics skills enable me to think analytically and quantitatively about problems.
- My mathematics training has enabled me to think abstractly and reduce new problems down to something I already know how to solve.
- I am experienced with applying my mathematical statistics training to data analytics.

Communications

- I am proficient in communicating complex ideas to varying audiences.
- I have experience giving talks about my research.