

Aaron Huntley

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SUMMARY

I am a graduate mathematics student currently studying a masters course at Western University. I am interested in Category Theory, Topology and Abstract algebra.

EDUCATION

Western University Sept 2023 - Present

– MSc, Mathematics, ongoing

University of Leeds Sept 2019 - Jul 2023

– Mmath, Mathematics, Class I

– BSc, Mathematics, Class I

King Edwards VI College, Stourbridge Sept 2017 - Jul 2019

– Mathematics and further mathematics Grade A,B

– Computer science Grade B

– Geography Grade C

PROJECTS

Final year project [Introduction to category theory](#)

Definitions of categorical concepts including: categories, functors, natural transformations, adjunctions, monads and 2-categories. Worked examples such as: the category of monoids, free and forgetful functors, the powerset monad.

Third year project [Symmetries of Escher's paintings](#)

The symmetry of every repeating, plane filling, tiling can be completely be described by one of 17 different symmetry groups called wallpaper groups. Includes proof of theorems leading up to the crystallographic restriction theorem with worked examples. Applications to real world patterns such as Escher's paintings. Extension of the theory to hyperbolic geometry; theory of crystallographic groups on the Poincaré disc. Presented ideas in a 15 minute presentation to peers and tutors with question and answer. Defended paper in an interview with supervisor and moderator.

SKILLS

- Fluent in \LaTeX
- Fluent in Python
- Novice in Portuguese