Malthe Sporring

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Education

University of Edinburgh   *Sep 2022 - Aug 2026*
PhD Geometry and Topology

- Working with Prof. Clark Barwick on a project on "Koszul duality of $\infty-$operads."
- Member of the GlaMS PhD training Centre.

University of Edinburgh   *Sep 2017 - May 2022*
MMath Mathematics

- Awarded a 2021 Summer Vacation Scholarship for a project on "Axiomatic Homology and the Borsuk-Ulam Theorem".
- Awarded a Year 1 Certificate of Merit.

Experience

Mathematics Tutor   *Jan 2023 - Current*
University of Edinburgh

- Experienced tutor of undergraduate mathematics, in topics ranging from pure to applied; introductory to advanced.
- Receiving training on reflective practices as work towards an Edinburgh Teaching Award.
- (Spring 2023) Algebraic Topology, Fundamentals of Pure Mathematics.
- (Autumn 2023) Category Theory, Honours Analysis - Skills (Presentation skills), MathsBase (Homework help).
- (Spring 2024) Honours Algebra - Skills (Mathematical computing), Proofs and Problem Solving.
- (Autumn 2024) Accelerated Proofs and Problem Solving, Axiomatic Set Theory, MathsBase.
- (Spring 2025) Calculus and its Applications.

Online Assessment Intern   *Aug 2022 - Sep 2022*
University of Glasgow

- Responsible for converting a series of diagnostics tests for undergraduate students into the STACK system.

Online Assessment Intern   *May 2022 - June 2022*
Heriot-Watt University

- Took part in a project to introduce STACK assessment in first year mathematics courses. This included designing new questions, and running a workshop for colleagues.

Freelance Mathematics Tutor   *Jan 2020 - May 2022*

- Gained experience tutoring students age 16-18 of the International Baccalaureate programme, in both an individual and group setting.

ASID Intern   *June 2020 - Aug 2020*
University of Edinburgh

- Took part in a project to turn the HELM mathematics workbooks into STACK quizzes. This included conducting quality-assurance on questions written by colleagues.
- Gained experience in teaching STACK from organizing and speaking at eight STACK workshops.
- Learned HTML and CSS through designing the official website stack-assessment.org.

Online Assessment Community Engagement Intern   *June 2019 - Aug 2019*
University of Edinburgh

- Responsible for improving the learning experience of the online assessment system STACK.
- Collated a a collection of cases studies detailing innovative use of STACK.
- Conducted a survey of STACK users world-wide.

Additional Accomplishments

Twoples Mentor *Sep 2023 - Dec 2023*
- Mentored a project on algebraic topology for Twoples, an online directed reading program for mathematics undergraduates

Teaching Intern *Sep 2020*
- Completed a two-week teaching internship at the upper-secondary school Birkerød Gymnasium, HF and IB.

Publicist for the University of Edinburgh Swing Dance Society *April 2019 - April 2020*

Treasurer for the University of Edinburgh Swing Dance Society *April 2018 - April 2019*

Technologies

Experienced user of Python, Git, LEAN and LaTeX.

Experienced in online mathematics assessment via STACK