

Ed Gallagher – CV

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Address: Mr Ed Gallagher, Dept. of Mathematical Sciences, University of Bath, Bath, BA2 7AY
Date of Birth: 11/06/1998 | Nationality: British

Education

2020-Present PhD in Mathematics - University of Bath

My main interests are in pure maths; specifically, analysis and geometry.
My research focuses on finding curves on Riemannian manifolds with prescribed length and boundary data which have minimum curvature in the L^∞ norm.
Supervisor: Professor Roger Moser

2016-2020 MMath Mathematics - Durham University, St Aidan's College

Graduated with first class honours, with an average mark of 85%.
Achieved a first in every module I took.
Specialised in analysis & geometry modules.
Dissertation title: Curve Shortening Flow
Supervisors: Dr Wilhelm Klingenberg, Dr Fernando Galaz-García
Dissertation mark: 89%

2012-2016 Dame Allan's School, Newcastle

A levels: A*A*A*A in Maths, Further Maths, Physics, & Chemistry respectively
As levels: B in English Literature
GCSEs: 11 A*s including Maths and English

Work

Oct 2020 - Present - Department of Mathematical Sciences, University of Bath
Graduate Teaching Assistant

Tutor for first-year undergraduates for the module Analysis 1A.
Responsible for delivering hour-long tutorial sessions twice a week, as well as marking and providing feedback on weekly problem sheets.
In feedback surveys, 100% of respondents found my tutorials good; specific feedback includes "presents information clearly in a way you can understand", "[gives] clear and simple explanations of examples which are hard", "any questions we have are answered well."

Oct 2019 - Apr 2020 - Department of Mathematical Sciences, Durham University
Undergraduate Teaching Assistant

Responsible for marking and providing feedback on weekly undergraduate assignments for the Complex Analysis II module.

Jun 2019 - Aug 2019 - Biophysical Sciences Institute, Durham University
Research Project

Research funded by the Durham University Biophysical Sciences Institute, looking at statistical noise in small-angle X-ray scattering data obtained from flexible protein chains.
Supervised by Dr Chris Prior.

May 2018 - St Aidan's College JCR, Durham University

Apr 2019 *Treasurer*

Responsible for planning, creating and sticking to an annual budget of £200,000, for managing the JCR's financial reserves, for creating a long-term plan for financial stability, and for leading and managing the 13-person financial committee. Sat on the college executive committee. Having inherited a deficit of around £20,000, I left my successor with a small surplus.

May 2018 - Department of Mathematical Sciences, Durham University

Aug 2018 *Research Project*

Research funded by the EPSRC looking at statistical methods for high-dimensional screening with a focus on genomic and medical applications.

Supervised by Dr Louis Aslett.

The results of this project can be viewed at <https://arxiv.org/abs/1911.05720>

Jun 2017 - Greggs plc

Aug 2017 *Financial Administrator*

Successfully delivered a 9-week project to implement a strategy for reducing carbon emissions and improving emission reporting and analysis. This involved liaising with various departments across the company and presenting my findings & results to the Finance Director.

Academic Presentations

- **Oct 2020:** University of Bath PSS (Postgraduate Student Seminar) – Curve Shortening Flow
- **Aug 2019:** Durham University Applied Mathematics Group – Statistical Noise in Small-angle X-ray Scattering Data Obtained From Flexible Protein Chains
- **Dec 2018:** Durham University Mathematical Society Undergraduate Colloquium – Improved Concentration Bounds for Gaussian Quadratic Forms

Awards & Honours

- Received honorary lifetime membership from St Aidan's College JCR in Summer 2020 in recognition of my service and work as an undergraduate
- Awarded a travel bursary by St Aidan's College in Summer 2019 to attend an undergraduate summer school in algebra at the University of Alberta, Canada
- Won the "best team use of the Google Cloud platform" award at DurHack 2018

Other Skills & Activities

- Proficient in Microsoft Office
- Proficient at typesetting in \LaTeX
- Member of University of Bath Maths Postgraduate Football Team 2020-present
- Member of St Aidan's College Ultimate Frisbee Team 2016-2020; Club Treasurer 2017-2018

Interests

- Reading
- Walking
- Cooking
- Cocktail Making