

Education	PhD in Mathematics , University of Glasgow Advisor Prof. Michael Wemyss. Thesis title ‘ <i>Bricks, flops, and $K(\pi, 1)$ spaces</i> ’.	Expected 2026
	MMath (Part III) , University of Cambridge Merit. Essay title ‘ <i>Derived equivalences in Algebra and Geometry</i> ’.	2022
	BA in Mathematics , University of Cambridge First class honours.	2021
Awards	ERC Scholarship , European Research Council. Award towards doctoral education.	2022
	Examination Prize , Gonville and Caius College, Cambridge	2019, 2021
	Cambridge Trust Scholarship , Cambridge Trust Award of £40,000 towards undergraduate education.	2018
	Scholarship , Gonville and Caius College, Cambridge Award of £40,000 towards undergraduate education.	2018
Publications	Simple complexes on a flopped curve <i>Preprint</i> . arXiv:2508.06437	2025
	Torsion pairs and 3-fold flops <i>Preprint</i> . arXiv:2502.05146	2025
	Hall algebras and affine Yangians via variation of t-structures (Joint with F. Sala and O. Schiffmann) <i>In preparation</i> .	2025
Selected talks (invited)	Mathematics–String theory seminar, Kavli IPMU, <i>Tokyo</i> .	Apr 2025
	Tokyo–Nagoya algebra seminar, University of Tokyo, <i>Tokyo</i> .	Apr 2025
	Algebraic geometry seminar, Tokyo Metropolitan University, <i>Tokyo</i> .	Apr 2025
	Algebraic geometry seminar, University of Liverpool, <i>Liverpool</i> .	Mar 2025
	Artin groups meet triangulated categories, MFO, <i>Oberwolfach</i> .	Jan 2024
(contributed)	Simple-mindedness, silting, and stability, <i>Ambleside</i> .	Jul 2024
Teaching	Tutor and Demonstrator , University of Glasgow Ran problem sessions for fourth year (<i>Differential geometry</i>), third year (<i>Metric and topological spaces</i>), and second year (<i>Mechanics, Multivariable calculus, Mathematical methods and modelling, Linear algebra, Graph theory, Discrete mathematics</i>) undergraduate mathematics courses.	2022–25
	Tutor , Count me in, University of Edinburgh Co-supervised (with Prof. Dhruv Ranganathan) two undergraduates through a six week research project on <i>Computing Euler characteristics of moduli spaces of line arrangements</i> . This was part of a research program for underrepresented groups in mathematics.	2024
	Tutor , Sutton Trust Summer School, Cambridge Ran problem sessions, organised workshops, and conducted mock interviews for university applicants from underrepresented groups.	2019, 2021
Organisation	Glasgow–Edinburgh Algebra Research Seminar (GEARS).	2025
	Glasgow Algebra Pre-Seminar (GAPS).	2023, 2024
Other roles	President , The Archimedean (Cambridge University Mathematics Society).	2020, 2021
	Social programme coordinator , International Mathematics Olympiad.	2020, 2021