

# Hannah Dell

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Research interests	Algebraic geometry, derived categories of coherent sheaves, Bridgeland stability conditions, group actions on varieties and triangulated categories, Kuznetsov components, Fano and hyperkähler varieties, moduli spaces, categories associated to quivers.	
Employment	<b>Postdoctoral Researcher</b> University of Bonn, Germany (Mentor: Prof. Daniel Huybrechts)	September 2024 – August 2026
Education	<b>PhD Mathematics</b> University of Edinburgh, UK Thesis: <i>Stability Conditions and Group Actions</i> , supervised by Prof. Arend Bayer	September 2020 – August 2024
	<b>MMath (1<sup>st</sup> Class)</b> University of Warwick, UK Thesis: <i>Schemes and Graded Rings</i> , supervised by Prof. Gavin Brown	September 2016 – August 2020
Publications and preprints	<ol style="list-style-type: none"><li>Stability conditions on free abelian quotients, <a href="https://arxiv.org/abs/2307.00815">arxiv.org/abs/2307.00815</a>, <i>Épjournal de Géométrie Algébrique</i> 9 (2025), Art. 16</li><li>Cyclic covers: Hodge theory and categorical Torelli theorems (joint with Augustinas Jacovskis and Franco Rota), <a href="https://arxiv.org/abs/2310.13651">arxiv.org/abs/2310.13651</a>, <i>IMRN</i> 2025, Issue 10</li><li>Fusion-equivariant stability conditions and Morita duality (joint with Edmund Heng and Anthony Licata), <a href="https://arxiv.org/abs/2311.06857">arxiv.org/abs/2311.06857</a>, <i>Math. Z.</i> 311, 48 (2025)</li></ol>	
Talks	<b>Selected invited talks</b>	
	CIMPA school: Bridgeland stability and applications, <i>Florianopolis</i>	August 2025
	Hyperkähler Workshop, <i>Milan</i>	March 2025
	Oberseminar Algebraische und Komplexe Geometrie, <i>Bochum</i>	November 2024
	Seminar Algebraic Geometry, <i>Bonn</i>	November 2024
	Tale of Geometries Workshop, <i>Brussels</i>	October 2024
	Workshop on DT Theory and Derived Categories, <i>Paris</i>	September 2024
	Equivariant Derived Categories Seminar, <i>SLMath, Berkeley</i>	March 2024
	Wayne State Algebra Seminar, <i>Detroit</i>	March 2024
	Geometry and Physics Seminar, <i>Sheffield</i>	February 2024
	AG Seminar, <i>Luxembourg</i>	February 2024
	Artin Groups meet Triangulated Categories Workshop, <i>Oberwolfach</i>	January 2024
	Algebra, Geometry, and Number Theory Seminar, <i>Bath</i>	November 2023
	QM Research Seminar, <i>University of Southern Denmark</i>	October 2023
	GLEN Workshop on Stability Conditions, <i>Liverpool</i>	September 2023
	Algebraic Geometry Seminar, <i>Lille</i>	June 2023

	<b>Selected contributed talks</b>	
	Fano and Hyperkähler Varieties in Genova	January 2024
	Queer In Number Theory and Geometry Workshop, <i>Norfolk</i>	August 2023
Funding awarded	<b>Heilbronn Focused Research Grant</b>	March 2025
	Awarded £3300 to run a collaborative visit in May 2025 at the University of Cambridge for the project “ <i>Logarithmic Geometry and Smoothing Bridgeland Stability Conditions</i> ” together with Uttaran Dutta, Samuel Johnston, and Patrick Kennedy–Hunt.	
Visiting positions	<b>SLMath: Noncommutative Algebraic Geometry</b>	March – April 2024
	Program Associate.	
Teaching	<b>Tutor</b> (School of Mathematics, University of Edinburgh)	January 2021 – August 2024
	Running weekly problem sessions and marking assignments for first - third year undergraduate courses on topics including algebra, geometry, and analysis.	
	<b>Award:</b> Associate Fellow of the Higher Education Academy	
	<b>Count Me In Tutor</b> (University of Edinburgh)	Summer 2023
	Together with Dr. Yoav Len, I supervised a group of 3 undergraduates for a 6-week research project on tropical moduli spaces. This was part of a research program for underrepresented groups in mathematics. I also organised seminars and social events.	
	<b>Mathematics Undergraduate Supervisor</b> (University of Warwick)	2019 – 2020
	Running weekly tutorials and marking assignments for small groups of first years.	
Languages	$\LaTeX$ , LEAN (familiar), English (native), German (B2 equiv.), French (A2 equiv.)	
Service and outreach	<b>Maths Outreach Team Member</b> (University of Edinburgh)	April 2023 – August 2024
	Running monthly maths engagement activities for school children and teachers.	
	<b>GAeL XXIX, XXX</b>	July 2021 – July 2023
	<b>GAeL</b> is an annual workshop for early-career algebraic geometers from across the globe. As part of a team of global organisers, I helped with publicising the event, participant communication, and securing main speakers and funding.	
	<b>EDGE and Hodge Seminars</b> (University of Edinburgh)	2022 – 2024
	In 2023–2024 I co-organised the geometry seminar (EDGE). In 2022–2023, I organised the Hodge pre-seminar. This is an introductory talk to complement the <a href="#">Hodge Seminar</a> - the colloquium for algebra, geometry, number theory and topology.	
References	Available upon request	