

Hannah Dell

Mathematical Institute and Hausdorff Center for Mathematics, University of Bonn, Germany

hdell@math.uni-bonn.de | hannahdell.me

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	Postdoctoral Researcher University of Bonn, Germany (Mentor: Prof. Daniel Huybrechts)	September 2024 – August 2026
Education	PhD Mathematics University of Edinburgh, UK Thesis: <i>Stability Conditions and Group Actions</i> , supervised by Prof. Arend Bayer	September 2020 – August 2024
	MMath (1st Class) 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">Stability conditions on free abelian quotients, arxiv.org/abs/2307.00815, to appear in <i>Épjournal de Géométrie Algébrique</i>Cyclic covers: Hodge theory and categorical Torelli theorems (joint with Augustinas Jacovskis and Franco Rota), arxiv.org/abs/2310.13651Fusion-equivariant stability conditions and Morita duality (joint with Edmund Heng and Anthony Licata), arxiv.org/abs/2311.06857	
Talks	Selected invited talks CIMPA school: Bridgeland stability and applications, <i>Florianopolis</i> Hyperkähler Workshop, <i>Milan</i> Oberseminar Algebraische und Komplexe Geometrie, <i>Bochum</i> Seminar Algebraic Geometry, <i>Bonn</i> Tale of Geometries Workshop, <i>Brussels</i> Workshop on DT Theory and Derived Categories, <i>Paris</i> Equivariant Derived Categories Seminar, <i>SLMath, Berkeley</i> Wayne State Algebra Seminar, <i>Detroit</i> Geometry and Physics Seminar, <i>Sheffield</i> AG Seminar, <i>Luxembourg</i> Artin Groups meet Triangulated Categories Workshop, <i>Oberwolfach</i> Algebra, Geometry, and Number Theory Seminar, <i>Bath</i> QM Research Seminar, <i>University of Southern Denmark</i> GLEN Workshop on Stability Conditions, <i>Liverpool</i> Algebraic Geometry Seminar, <i>Lille</i>	August 2025 March 2025 November 2024 November 2024 October 2024 September 2024 March 2024 March 2024 February 2024 February 2024 January 2024 November 2023 October 2023 September 2023 June 2023

	Selected contributed talks	
	Fano and Hyperkähler Varieties in Genova	January 2024
	Queer In Number Theory and Geometry Workshop, <i>Norfolk</i>	August 2023
Funding awarded	Heilbronn Focused Research Grant	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	SLMath: Noncommutative Algebraic Geometry	March – April 2024
	Program Associate.	
Teaching	Tutor (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.	
	Award: Associate Fellow of the Higher Education Academy	
	Count Me In Tutor (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.	
	Mathematics Undergraduate Supervisor (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	Maths Outreach Team Member (University of Edinburgh)	April 2023 – August 2024
	Running monthly maths engagement activities for school children and teachers.	
	GAeL XXIX, XXX	July 2021 – July 2023
	GAeL 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.	
	EDGE and Hodge Seminars (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 Hodge Seminar - the colloquium for algebra, geometry, number theory and topology.	
References	Available upon request	