Calliope Ryan-Smith

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Education

2021-Present	Ph.D (in progress). Supervisors: Dr Asaf Karagila,	University of Leeds
	Dr Andrew Brooke-Taylor, Dr Vincenzo Mantova	
2020 - 2021	M.Math , Mathematics	University of Cambridge
2017 - 2020	B.A , Mathematics	University of Cambridge

Grants

2021 Mathematical Sciences Doctoral Training Partnership *EPSRC*, grant number [EP/W523860/1].

Research interests

Mathematical logic; intersections of model theory and set theory. Set theory: cardinal characteristics; generalised Cantor space; theory of forcing; large cardinals; choiceless constructions; combinatorial objects. Model theory: classification theory; abstract elementary classes; independence property; generalised logic.

Preprints

2024	(w/ J. Schilhan and Y. Wei) Upwards homogeneity in iterated	Submitted. arXiv:2405.08639
	symmetric extensions	
2024	String dimension: VC dimension for infinite shattering	<i>Submitted.</i> arXiv:2402.18250
2023	The Hartogs–Lindenbaum spectrum of symmetric exten-	<i>Accepted.</i> arXiv:2309.12100
	sions	
2023	(w/ A. Karagila) Which pairs of cardinals can be Hartogs	Submitted. arXiv:2309.11409
	and Lindenbaum numbers of a set?	
2023	Stratifiable formulae are not context-free	Submitted. arXiv:2304.10291

Teaching experience

Workshop leader:

2022	Coding theory (2nd year)
2022, 2023	Discrete Mathematics (2nd year)
2022	Elementary Differential Calculus (1st year)
2022, 2023	Logic (2nd year)
2024	Real Analysis (2nd year)
2024	Sets, Sequences and Series (1st year)