

Luke Kershaw

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Office 2.21, Fry Building, Bristol

SUMMARY	Current 2 nd year PhD student in Mathematics at the University of Bristol. Researching homological algebra and representation theory of finite-dimensional algebras.		
EDUCATION	Ongoing		
	<i>Doctor of Philosophy, Mathematics</i>		2019-2023 (<i>Expected</i>)
	<i>Focus: Representation Theory of Finite-Dimensional Algebras</i>		
	University of Bristol, Bristol, UK	<i>Supervisor: Prof. Jeremy Rickard</i>	
	Previous		
	<i>Master of Mathematics, Mathematics</i>		October 2015 - July 2019
	University of Warwick, Coventry, UK		
	<i>First Class</i>	<i>Final mark: 83%</i>	
	<i>Blue Coat School, Liverpool</i>		
	<i>A Levels: 3A*s, 1 A</i>	<i>GCSEs: 8 A*s, 5 As, 1 B</i>	
RESEARCH EXPERIENCE	Previous		
	<i>4th Year Project, Tropical Geometry</i>	<i>Supervisor: Dr Diane Maclagan</i>	
	<i>Warwick Mathematics Institute</i>		2018-2019
	An investigation into the properties of tropical geometry, with a focus on tropical orders of vanishing and comparison with their classical analogue.		
	<i>2nd Year Essay, Tensors and Exterior Algebra</i>		
	<i>Warwick Mathematics Institute</i>		2016-2017
	An introduction to the ideas behind Exterior Algebras aimed at second year mathematics students. Used as an opportunity to learn independently about a topic that interested me.		
TEACHING EXPERIENCE	Ongoing		
	<i>Teaching Support Assistant, Bristol School of Mathematics</i>		2019-Present
	Fortnightly tutorials and homework grading. Focused on helping students to be mathematically rigorous in their arguments.		
	<i>Courses: Linear Algebra, Introduction to Proof</i>		
	Previous		
	<i>Supervisor, Warwick Mathematics Institute</i>		2018-19
	Mentor and support two groups of five 1 st year maths students with all core modules. Communicate new ideas to students and assist in their general mathematical development. Complete marking and provide feedback in an effective and organised manner.		
	<i>Peer Tutor, Warwick Mathematics Institute</i>		2016
	Provided support for Teaching Assistant of 1 st year analysis class. Focused on helping students to understand how to think and communicate ideas rigorously.		

CONFERENCES ATTENDED	<i>Hausdorff Center for Mathematics (Online), Germany</i>	October 2020
	Winter School - "Connections between representation theory and geometry"	
	<i>London Mathematical Society (Online), UK</i>	September 2020
	Autumn Algebra School	
	<i>Leicester (Online), UK</i>	September 2020
	Categorifications in Representation Theory	
MISC. EXPERIENCE	<i>PGR Representative:</i>	2019-Present
	Member of the Student Staff Liason Committee.	
	<i>Conference Co-organisier:</i>	
	MINGLE 2020 (annual Bristol postgraduate conference).	
	<i>Programming Languages:</i> Python, Matlab, Java, C.	
	<i>Software:</i> Microsoft Office, TeXworks.	
WORK EXPERIENCE	<i>Data Engineer (prev. Data Science Intern)</i>	Jul-Aug 2018, Jul-Aug 2019
	AIMES Ltd, Liverpool, England	
	<ul style="list-style-type: none"> Developed an automatic system for data collection and processing to aid in NHS funding applications. Effectively organised work to complete the project within strict deadlines. 	
	<i>Accounts Assistant</i>	Dec 2016, Mar-Apr 2017, Jul-Sep 2017
	Velocity Composites Plc, Burnley, England	
	<ul style="list-style-type: none"> Developed a demand analysis project to forecast changes in customer needs. Communicated within the business to decide which information was relevant to calculations and decision making. 	
	<i>Accounts Assistant</i>	Aug 2014
	Ultrasys Plc, London, England	
	<ul style="list-style-type: none"> Managed current and historical invoices, processed purchases and expenses. 	
	<i>Executive Comittee, Warwick Canoe Polo Club</i>	
EXTRA- CURRICULAR ACTIVITIES	<i>(Treasurer, 2018-19, Secretary, 2017-18, Kit Secretary, 2016-17)</i>	
	<ul style="list-style-type: none"> Worked effectively as a team to host training sessions, tournaments and refereeing courses Organised and helped to direct a 24 hour Paddle-athon for a local mental health charity 	