

Luke Kershaw

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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>University of Valencia (Online), Spain</i>	December 2020
	3 rd Bringing Young Mathematicians Together Conference	
	<i>ICRA 2020 (Online)</i>	November 2020
	Workshop and International Conference on Representations of Algebras	
	<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	
MISC. EXPERIENCE	<i>Leicester (Online), UK</i>	September 2020
	Categorifications in Representation Theory	
	<i>PGR Representative:</i>	2019-Present
	Member of the Student Staff Liason Committee.	
	<i>Conference Co-organiser:</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. 	