

Xiangjia Kong

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Current Position	PhD student in Mathematics, University of North Carolina at Chapel Hill, NC, USA Advisor: <i>Prof Justin Sawon</i>	
Education	MA in Mathematics Trinity College, University of Cambridge, UK	2022
	M.S. in Mathematics Courant Institute of Mathematical Sciences, New York University, NY, USA Thesis: <i>Equivariant birational types</i> Advisor: <i>Prof Yuri Tschinkel</i>	2021
	BA in Mathematics Trinity College, University of Cambridge, UK	2018
Research Experience	Equivariant Birational Types Master's thesis written at NYU under the supervision of Prof Yuri Tschinkel based on his paper Equivariant birational geometry and modular symbols (arXiv:1902.09894) with Maxim Kontsevich and Vasily Pestun.	2019 - 2021
Conferences Attended	Algebraic Geometry, Mathematical Physics and Solitons Columbia University, New York City, NY	Oct 2022
	Categorical Methods in Representation Theory and Quantum Topology University of Virginia, Charlottesville, VA	Apr 2022
	Triangle Area Graduate Mathematics Conference (TAGMaC) Duke University, Durham, NC	Nov 2021
	Arizona Winter School University of Arizona, Tucson, AZ On nonabelian Chabauty, based on the works of Minhyong Kim which extended the ideas of classical Chabauty.	Mar 2020
Course Projects	Kähler manifolds Project done in MATH 782(Differential Geometry) under Prof Yaiza Canzani.	2022
	The Weinstein argument and the Darboux-Weinstein lemma Project done in MATH 751(Introduction to Partial Differential Equations) under Prof Jeremy Marzuola.	2021
	Weyl Formula via Orthogonality, On indefinite orthogonal groups Projects done in MATH 773(Lie Groups) under Prof Ivan Cherednik.	2021
Teaching Experience	Mentor, Directed Reading Program, UNC Chapel Hill, NC Text: <i>Basic Category Theory</i> by Tom Leinster	2022

Student: *James Thompson*

Teaching Assistant, UNC Chapel Hill, NC 2021 - 2022
Calculus II (Fall 2021), Calculus I (Spring 2022).

Grader, UNC Chapel Hill, NC 2021 - 2022
Linear Algebra for Applications (Fall 2021), First Course in Differential Equations
(Spring 2022).

Teaching Assistant, New York University, NY 2019 - 2021
Calculus I (Fall 2019, Fall 2020), Mathematics for Economics (Spring 2020).

Team Guide, International Mathematical Olympiad 2019, Bath, UK 2019
Team guide for the Montenegro IMO team.

Tutor, Cambridge Youth Summer Camps, Yunnan, China 2017
Used my bilingualism in English and Chinese to teach English to kids of various age.

Olympiad Honors	IMO training and selection camp, Trinity College, Cambridge, UK	2015
	British Mathematical Olympiad round 2, 29/40, 9th in the country	2015
	Joint Hungary/UK IMO Camp, Budapest, Hungary	2014
	British Mathematical Olympiad round 1, 58/60, 16th in the country	2014
	Oxford initial training camp, Queen's College, Oxford, UK	2014
	National mathematics summer school, Leeds, UK	2013

Computer Skills	LaTeX, Python, NumPy, MAGMA, MATLAB
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Languages	English, Chinese, some Japanese
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Updated: 11/12/2022