

Stephen McKean

CONTACT INFORMATION	Duke University Department of Mathematics Box 90320 Durham, NC 27708	mckean@math.duke.edu math.duke.edu/~mckean
RESEARCH INTERESTS	Arithmetic geometry and arithmetic topology. Motivic homotopy theory, enumerative geometry, anabelian geometry.	
EDUCATION	Duke University , Durham, North Carolina Ph.D. in Mathematics, expected May 2022 Advisor: Kirsten Wickelgren Georgia Institute of Technology , Atlanta, Georgia M.S. in Mathematics, December 2019 University of Utah , Salt Lake City, Utah B.S. in Mathematics, May 2017 Magna cum laude Minors in Physics and German	
HONORS & AWARDS	Travel support from Graduate Committee, 2019, Georgia Tech John R. Festa Fellowship, 2019, Georgia Tech Bob Price Travel Fellowship, 2018, Georgia Tech Calvin H. Wilcox Memorial Scholarship, 2016, University of Utah Undergraduate Research Scholar, 2016, University of Utah President's Scholarship, 2011, University of Utah	
PAPERS & PREPRINTS	The EKL class at non-rational points , with Thomas Brazelton. In preparation, 2020. On Drużkowski's morphisms of cubic linear type . Preprint, 2020. arxiv.org/abs/2005.09797 An arithmetic enrichment of Bézout's Theorem . Submitted, 2020. arxiv.org/abs/2003.07413 All lines on a smooth cubic surface in terms of three skew lines , with Daniel Minahan and Tianyi Zhang. Submitted, 2020. arxiv.org/abs/2002.10367 The trace of the local A^1-degree , with Thomas Brazelton, Robert Burklund, Michael Montoro, and Morgan Opie. Submitted, 2019. arxiv.org/abs/1912.04788	

RESEARCH TALKS	<i>Equations for lines on cubic surfaces</i>		
	2020	Mar	* Real Enumerative Geometry and Beyond, Vanderbilt
(* INDICATES A SHORT TALK)	<i>Enriching Bézout's Theorem</i>		
	2019	Nov	Commutative Algebra Seminar, University of Utah
		Sep	Geometry and Topology in Arithmetic, AMS Central Sectional
		Jun	* Arithmetic Topology Workshop, PIMS
		Jun	Graduate Student Conference in AG&T, Temple
	2018	Dec	* Tech Topology Conference, Georgia Tech
CONFERENCES & WORKSHOPS ATTENDED	2020	Aug	∞ -Categories and Their Applications, Max Planck Institute (Online)
		Aug	Stacks Project Workshop, University of Michigan (Online)
		May	Motives and What Not, Universität Regensburg (Online)
		May	Midwest Topology Seminar, Wayne State (Online)
		May	MAGUS, Online
		Apr	WAGON, University of Washington (Online)
		Mar	AGONIZE, University of Georgia (Online)
		Mar	Real Enumerative Geometry and Beyond, Vanderbilt
	2019	Sep	Computations in Motivic Homotopy Theory, Universität Regensburg
		Sep	AMS Fall Central Sectional Meeting, University of Wisconsin
		Jun	Arithmetic Topology Workshop, PIMS
		Jun	Graduate Student Conference in AG&T, Temple
		May	Midwest Topology Seminar, Michigan State
		Mar	GATTACA, Georgia Tech
		Mar	Arizona Winter School, University of Arizona
	2018	Dec	Tech Topology Conference, Georgia Tech
		Jul	Homotopy Theory and Arithmetic Geometry, Imperial College
		Jun	The Roots of Topology, University of Chicago
		May	Topics in Commutative Algebra, University of Utah
		Apr	AMS Spring Southeastern Sectional Meeting, Vanderbilt
		Mar	Arizona Winter School, University of Arizona
		Feb	Georgia Algebraic Geometry Symposium, Georgia Tech
	2016	May	Introduction to Algebraic Geometry, University of Utah
TEACHING AWARDS	Outstanding Student Evaluations Award, 2019, Georgia Tech		
	<i>Thank a Teacher</i> Certificate, 2019, Georgia Tech		
TEACHING EXPERIENCE	2020	Sp	TA Linear Algebra and Differential Equations, Duke
	2019	Fa	Head TA Differential Calculus, Georgia Tech
		Su	Instructor Algebra Comp Prep Course, Georgia Tech
		Sp	Instructor Calculus for Life Sciences, Georgia Tech
	2018	Fa	Head TA Differential Calculus, Georgia Tech
		Su	LA Differential Calculus, Georgia Tech
		Sp	TA Integral Calculus, Georgia Tech
	2017	Fa	TA Multivariable Calculus, Georgia Tech
		Su	Instructor Pre-calculus, Statistics, and Algebra, Utah TRIO
		Sp	SI Leader Trigonometry, University of Utah
	2016	Fa	SI Leader Intermediate Algebra, University of Utah
		Sp	SI Leader Intermediate Algebra, University of Utah
	2015	Fa	SI Leader Calculus I, University of Utah

SERVICE	2020	REU project assistant, Duke
	2020	Co-organizer and presenter for first-year bootcamp, Duke
	2020–	Reviewer, zbMATH
	2019	First-year TA training, Georgia Tech
	2019	Panelist for grad student orientation, Georgia Tech
	2019	Judge for UROP poster presentations, Georgia Tech
	2018, 19	Panelist for admitted grad student day, Georgia Tech
	2018	Panelist for first-year course: “Getting Involved,” Georgia Tech
	2018	Designed and organized School of Math t-shirts, Georgia Tech
	2018–19	Co-organizer of the Research Horizons Seminar, Georgia Tech
	2018–19	Mathematics Graduate Student Council, Georgia Tech
	2017–19	CoS Graduate Student Diversity Council, Georgia Tech
	2015–16	The MUSS Leadership Board, University of Utah
	2012–14	Volunteer missionary, The Church of Jesus Christ of Latter-day Saints
	OUTREACH	2020–
2019		9 th Grade Speaker Series, Gwinnett School of Math, Science, and Tech
2019		SMASH Morehouse Networking Night, Morehouse College
2017–20		High School Math Competition, Georgia Tech
2015, 16		Project Youth, University of Utah
RELEVANT SKILLS	Language:	English (native), German (fluent), French (basic)
	Design:	Photoshop/GIMP (proficient), Inkscape (proficient)
	Coding:	L ^A T _E X (proficient), HTML5/CSS3 (good), Python/Sage (basic)