

Kalila Joelle Sawyer

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EDUCATION	University of Kentucky , Kentucky, USA	
	Ph.D. in Mathematics	May 2020
	- Thesis Topic: Scollar Invariants on Tropical Chains of Loops	
	- Advisor: David Jensen	
	M.A. in Mathematics	May 2017
	University of Alaska Anchorage , Alaska, USA	
	B.S., Magna Cum Laude, in Mathematics	May 2015
TEACHING EXPERIENCE	Primary Instructor	
	- MA 111, Intro to Contemporary Math	Fall 2019
	- MA 109, College Algebra	Summer 2019
	- MA 201, Math for Elementary School Teachers	Fall 2017
	MathExcel Workshop Leader	
	- MA 114, Calculus II	Spring 2019
	- MA 113, Calculus I	Fall 2018
	Lead TA	
	- MA 123, Elementary Calculus and its Applications	Spring 2018
	Grader	
	- MA 661, Modern Algebra II	Spring 2018
	Recitation Leader	
	- MA 162, Finite Math and its Applications	Spring 2017
	- MA 137, Calculus I with Life Science Applications	Fall 2016
	- MA 123, Elementary Calculus and its Applications	Spring 2016
	- MA 113, Calculus I	Fall 2015
	Other	
	- Algebra Prelim Exam Review Session Leader	Spring 2019
		Spring 2018
	- Undergraduate Peer Tutor	August 2014-May 2015
PUBLICATIONS AND PREPRINTS	1 <i>Scollar Invariants of Tropical Curves</i> with D. Jensen, preprint arXiv:2001.02710.	
HONORS AND AWARDS	Wimberly C. Royster Outstanding Teaching Assistant Award	May 2018
	Daniel R. Reedy Quality Achievement Award	August 2015–May 2017
	Graduate Scholars in Mathematics Fellowship	August 2015-May 2017
	Merit-Based Tuition Waivers	August 2013-May 2015

TALKS AND PRESENTA- TIONS	<i>Life Isn't Fair, and Neither is Voting Theory</i>	
	Graduate Student Colloquium, University of Kentucky	September 2019
	<i>Calculating Tropical Scrollar Invariants on k-gonal Chains of Loops</i>	
	Midwest Algebraic Geometry Graduate Conference	March 2019
	<i>Scrollar Invariants are *Always* Fun</i>	
	Algebra Seminar, University of Kentucky	December 2018
	<i>Calculating Scrollar Invariants Via Young Tableaux (Poster)</i>	
	AGNES	September 2018
	<i>Stacks of Boxes are Better Than Chains of Loops</i>	
	Graduate Student Colloquium, University of Kentucky	September 2018
	<i>The Truth About Lie Groups</i>	
	Topology Seminar, University of Kentucky	April 2018
	<i>Setting Up Finite Geometry</i>	
	Graduate Student Colloquium, University of Kentucky	March 2018
	<i>The Maroni Invariant of Trigonal Chains of Loops (Qualifying Exam)</i>	
	Algebra Seminar, University of Kentucky	February 2018
	<i>The Grassmannian is Always Greener</i>	
	Topology Seminar, University of Kentucky	October 2017
SERVICE	<i>Mathematicians Have Always Been...Interesting</i>	
	Graduate Student Colloquium, University of Kentucky	September 2017
	<i>Special Divisors on Marked Chains of Cycles (Master's Exam)</i>	
	Algebra Seminar, University of Kentucky	April 2017
	<i>Geometric Multiplicity and Geršgorin Discs</i>	
	Graduate Student Colloquium, University of Kentucky	November 2015
	Association for Women in Mathematics, Officer	July 2019-June 2020
	Consortium for Mathematics and its Applications (COMAP)	
	Interdisciplinary Contest in Modeling, Triage Judge	February 2019
	UK Mathematics Graduate Student Council, Co-Chair	May 2017– May 2018
CONFERENCES AND WORKSHOPS	First Year Peer Mentor	August 2017-May 2019
	Julia Robinson Mathematics Festival, Graduate Assistant	November 2017
	Central Kentucky High School Math Circles,	
	Graduate Assistant and Session Leader	September 2016-February 2019
	UK High School Math Day for Women, Graduate Assistant	November 2015
	STEM Faculty Launch Workshop	
	Worcester Polytechnic Institute, Massachusetts	October 2019
	WARTHOG: Workshop on Algebra and Representation Theory Held on Oregonian Grounds	
	University of Oregon, Eugene	July 2019
	MSRI Summer School: Commutative Algebra and its Interaction with Algebraic Geometry	
	University of Notre Dame, Indiana	June 2019

GATTACA: Georgia Tech Tropical, Arithmetic and Combinatorial Algebraic-geometry	
Georgia Tech, Atlanta	April 2019
SAGE Days 98: Women in Sage	
Archanes, Crete	April 2019
MAGGC: Midwest Algebraic Geometry Graduate Conference	
University of Illinois at Chicago	March 2019
KY-WV LSAMP Research Symposium	
Marshall University, Huntington, West Virginia	March 2019
AGNES: Algebraic Geometry Northeastern Series	
	Fall 2017, 2018
AMS Spring Central Sectional Meeting	
The Ohio State University, Columbus	March 2018
GAGS: The Georgia Algebraic Geometry Symposium	
Georgia Tech, Atlanta	February 2018
Mathfest 2017	
Chicago, Illinois	July 2017
KYMAA Annual Meeting	
	Spring 2016, 2017

MEMBERSHIPS **American Mathematical Society**
Association for Women in Mathematics
Mathematical Association of America