

Miriam Kuzbary

School of Mathematics
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Research Interests **Geometric Topology, Knot Theory, Group Theory**

Professional Employment **Visiting Assistant Professor**
School of Mathematics, Georgia Institute of Technology

Education **Rice University**
Ph.D., Mathematics, 2019.
Thesis: Link Concordance and Groups
Advisor: Shelly Harvey
M.A., Mathematics, 2014.

University of Texas at Dallas
B.S., Mathematics, 2012.
Summa Cum Laude, Major Honors with Distinction, and Collegium V Honors

Awards and Fellowships **American Dissertation Fellowship**
American Association of University Women, 2018-2019
Graduate Research Fellowship
National Science Foundation, 2014-2019
Best Graduate Student Talk
Lloyd Roeling UL Lafayette Mathematics Conference, November 2017
Graduate Student Travel Grant
American Mathematical Society, November 2016
Bob E. and Lore Merten Watt Fellowship
Rice University, 2012
NPSC Fellowship (Declined for personal reasons)
The National Physical Sciences Consortium, 2012

Publications **An Analogue of Milnor's Invariants for Knots in 3-Manifolds**
Submitted. arXiv:1910.12108 [math.GT]

A link concordance group from knots in connected sums of $S^2 \times S^1$
Joint with Matthew Hedden
In Preparation.

String Link Concordance and the Pure Braid Group
In Preparation.

Invited Talks	Topology Seminar, October 2019
	University of Georgia, Athens, GA
	AMS Sectional, March 2019
	Auburn University, Auburn, AL
	Virginia Topology Conference, December 2018
	University of Virginia, Charlottesville, VA
	Geometry/Topology Seminar, October 2018
	University of California, Davis, Davis, CA
	Colloquium, October 2018
	Sam Houston State University, Huntsville, TX
	Geometry Topology Seminar, September 2018
	Georgia Institute of Technology, Atlanta, GA
	Topology Virtual Seminar, April 2018
	Louisiana State University, Baton Rouge, LA
	Joint Mathematics Meetings, January 2018
	San Diego Convention Center, San Diego, CA
	Lloyd Roeling UL Lafayette Mathematics Conference, November 2017
	The University of Louisiana at Lafayette, Lafayette, LA
	Colloquium, September 2017
	Texas Christian University, Ft. Worth, TX
	Topology Seminar, September 2017
	The University of Texas, Austin, TX
	CMO-BIRS: Thirty Years of Floer Theory for 3-Manifolds, August 2017
	Casa Matemática Oaxaca, Oaxaca City, Oaxaca, Mexico
	AMS Fall Southeastern Sectional Meeting, November 2016
	North Carolina State University, Raleigh, NC
	Junior Hausdorff Trimester Program in Topology, October 2016
	Hausdorff Research Institute for Mathematics, Bonn, Germany
	Nebraska Conference for Undergraduate Women in Mathematics, January 2015
	The University of Nebraska-Lincoln, Lincoln, NE
	Joint Mathematics Meetings, January 2012
	Hynes Convention Center, Boston, MA
	Discrete Mathematics Days, July 2011
	St. Michael's College, Colchester, VT
Teaching & Outreach	Georgia Institute of Technology
	Instructor, Multivariable Calculus, Fall 2019
	Rice University
	Instructor, Linear Algebra, Summer 2018
	Instructor, Multivariable Calculus, Spring 2018
	Teaching Assistant, Geometric Topology, Fall 2017
	Instructor, Linear Algebra, Summer 2017
	Instructor, Rice Program in Mathematics for High School Students, Summer 2016
	Teaching Assistant, Expanding Your Horizons in Science and Math, February 2016
	Instructor, Rice Emerging Scholars Program Instructor, Summer 2015
	Instructor, Calculus II, Fall 2014
	Instructor, Multivariable Calculus, Summer 2014

Teaching Assistant (Head), Calculus II, Spring 2014
Teaching Assistant (Head), Multivariable Calculus, Fall 2013
Teaching Assistant, Chaos & Life Program in Mathematics for Young Women, Summer 2013
Teaching Assistant, Multivariable Calculus, Spring 2013
Teaching Assistant, Differential Equations, Fall 2012

The University of Texas at Dallas

Math Tutor, Math Lab, January 2011 - August 2012
Student Teacher, Pre-AP Pre-Calculus, Spring 2012
Peer-Led Team Learning Leader, College Algebra, Fall 2010

Service

Georgia Institute of Technology

RTG Geometry-Topology Seminar Organizer, 2019-Present

Rice University

Organizer for HATCH Tutoring and Outreach, 2018-2019
Math Department Representative to the Graduate Student Association, 2013 - 2017
Graduate Student Reading Group Organizer, 2014 - 2017
Center for Teaching Excellence Graduate Liason, 2014 - 2015

The University of Texas at Dallas

Math Club President, 2009 - 2012