

**RESEARCH
INTERESTS** Knot Theory and 4-Manifolds

EDUCATION *Ph.D.* Mathematics
Rice University, Houston, TX.
Fall 2012 - Present
Advisor: Shelly Harvey

M.A. Mathematics
Rice University, Houston, TX.
Fall 2012 - Spring 2014
Advisor: Shelly Harvey

B.S. Mathematical Sciences
Summa Cum Laude
Major Honors with Distinction
University of Texas at Dallas, Richardson, TX.
Fall 2008 - May 2012

AWARDS *Graduate Research Fellowship* 2014
National Science Foundation

Bob E. and Lore Merten Watt Fellowship 2012
Rice University, Houston, TX

NPSC Fellowship (declined for personal reasons) 2012
National Physical Science Consortium

**TALKS
AND
POSTER
SESSIONS** *An Introduction to Differential Geometry* Spring 2014
Student Seminar (Organizer)
Rice University, Houston, TX

An Introduction to Khovanov Homology February 7, 2014
RTG Topology Seminar
Rice University, Houston, TX

Representations of Semisimple Lie Algebras November 14, 2013
Current Mathematics Seminar
Rice University, Houston, TX

Fibered Links from Closed Braids October 11, 2013
RTG Topology Seminar
Rice University, Houston, TX

An Introduction to Quandles March 14, 2013
Current Mathematics Seminar

Rice University, Houston, TX

Algebra Structure on the Handlebody of Genus Two May 7, 2012
Collegium V Poster Presentation for Graduating Seniors
University of Texas at Dallas, Richardson, TX

Covering Graphs, Voltage Assignments, and Hamiltonicity January 5, 2012
Joint Mathematics Meetings
Hynes Convention Center, Boston, MA

Covering Graphs, Voltage Assignments, and Hamiltonicity July 16, 2011
Discrete Mathematics Days
St. Michael's College, Colchester, VT

CONFERENCES ATTENDED

Combinatorial Link Homology Theories, Braids, and Contact Geometry August 4-8, 2014
ICERM at Brown University, Providence, RI

Topology Students Workshop June 9-13, 2014
Georgia Institute of Technology, Atlanta, GA

Graduate Student Topology and Geometry Conference April 5-6, 2014
University of Texas at Austin, Austin, TX

Rice Dynamics Meetings (helped organize) May 3-5, 2013
Rice University, Houston, TX

(Hempelfest) 3-manifolds: Heegaard Splittings, the Curve Complex, and Hyperbolic Geometry April 19-21, 2013
Rice University, Houston, TX

Texas Geometry and Topology Conference November 9-11, 2012
Rice University, Houston, TX

Joint Mathematics Meetings January 5, 2012
Hynes Convention Center, Boston, MA

Discrete Mathematics Days July 16, 2011
St. Michael's College, Colchester, VT

Knots in Washington XXXI: Categorification, Quandles, Quantum knots and Quantum computing December 3-5, 2010
George Washington University, Washington D.C.

Knots in Washington XXX: Categorification, Quandles, Quantum knots and Quantum computing May 19-21, 2010
George Washington University, Washington D.C.

RESEARCH AND INDEPENDENT STUDY

Algebra Structure on the Handlebody of Genus Two Fall 2011 - Spring 2012

Senior Honors Thesis
Mentor: Mieczyslaw Dabkowski
The University of Texas at Dallas, Richardson, TX.

Quantum Compiling Spring 2012
Independent Study in Quantum Computing
Mentor: Tobias Hagge
The University of Texas at Dallas, Richardson, TX.

Covering Graphs, Voltage Assignments, and Hamiltonicity Summer 2011
NSF-Funded Mathematics REU at Bard College
Mentor: Lauren Rose
Bard College, Annandale-On-Hudson, NY

Math Independent Study/Discussion Group Spring 2009 - Spring 2011
Mentor: Mieczyslaw Dabkowski
The University of Texas at Dallas, Richardson, TX.

**TEACHING
EXPERIENCE**

Instructor Summer 2014
Multivariable Calculus
Rice University, Houston, TX.

Teaching Assistant Spring 2014
Calculus II (Head TA)
Rice University, Houston, TX.

Teaching Assistant Fall 2013
Multivariable Calculus (Head TA)
Rice University, Houston, TX.

Teaching Assistant Spring 2013
Chaos & Life Program in Mathematics for Young Women
Rice University, Houston, TX.

Teaching Assistant Spring 2013
Multivariable Calculus
Rice University, Houston, TX.

Teaching Assistant Fall 2012
Differential Equations
Rice University, Houston, TX.

Math Tutor January 2011 - August 2012
UTD GEMS Math Lab
The University of Texas at Dallas, Richardson, TX.

Student Teacher January 2012 - May 2012
UTeach at UT Dallas
Math, Engineering, Science, and Technology Academy, Carrollton, TX.

PLTL (Peer-Led Team Learning) Leader August - December 2010
UTD GEMS Center
The University of Texas at Dallas, Richardson, TX.

	<i>Grader</i> UTD Math Department The University of Texas at Dallas, Richardson, TX.	January 2010 - December 2010
	<i>Teacher/Tutor</i> Kaplan Test Prep Dallas, TX.	January 2009 - May 2011
	<i>UTeach Field Experience</i> UTeach Program at UTDallas Various Dallas area schools.	Fall 2008 - Spring 2012
SERVICE	<i>Center for Teaching Excellence Graduate Liason</i> Graduate Student Association Rice University, Houston, TX	Summer 2014 - Present
	<i>Math Department Representative</i> Graduate Student Association Rice University, Houston, TX	Summer 2013 - Present
	<i>Math Club President</i> University of Texas at Dallas, Richardson, TX	Fall 2009 - Spring 2012