

SAMUEL TRIPP

Curriculum Vitae

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EDUCATION

- Ph.D., Mathematics**, *Dartmouth College*, Hanover, NH *September 2017 – Present*
Advisor: Ina Petkova
A.M. Mathematics *Spring 2019*
- B.A., Mathematics**, *Williams College*, Williamstown, MA *August 2010 – May 2014*
Advisor: Allison Pacelli
Thesis: Primes in Arithmetic Progressions of Polynomials

PUBLICATIONS AND PREPRINTS

- On grid homology for lens space links: combinatorial invariance and integral coefficients**
arXiv version: arXiv:2110.00663
- L-space knots with tunnel number > 1 by experiment**, with C. Anderson, K. Baker, X. Gao, M. Keigel, K. Le, K. Miller, S. Onaran, G. Sangston, A. Wood, A. Wright
To appear in *Experimental Mathematics*. arXiv version: arXiv:1909.00790
- Controlling the generic formal fiber of local domains and their polynomial rings**, with P. Jiang, A. Kirkpatrick, S. Loepf, S. Mack-Crane
Journal of Commutative Algebra, Vol.7, No.1, 241-264, 2015. pdf version

TEACHING EXPERIENCE

- Dartmouth College**, Hanover, NH; Professor
- Probability *To be taught, Spring 2022*
Abstract Algebra *Summer 2020*
Introduction to Calculus *Fall 2019*
- Dartmouth College**, Hanover, NH; Teaching Assistant
- Linear Algebra *Spring 2019*
Calculus of Vector-valued Functions *Winter 2019*
Calculus of Vector-valued Functions *Winter 2018*
Accelerated Multivariable Calculus *Fall 2017*
- Williams College**, Williamstown, MA; Teaching Assistant
- Discrete Mathematics *Fall 2013*
Discrete Mathematics *Spring 2012*
Data Structures *Fall 2011*

EDUCATIONAL OUTREACH

- Directed Reading Program**, Dartmouth College *Winter 2021*
Mentor to student on *Knot Invariants*
- Sonia Kovalevskaya Day**, Dartmouth College *May 2020, postponed*
Co-organized events for middle- and high-school women with R. Orellana and L. Petto
- Exploring Mathematics**, Dartmouth College *Summer 2019*
Planned, organized, and conducted two week-long math programs for middle- and high-school students
Mathematics of Games, Networks

Math and Science Resource Center , Williams College	<i>2012-2013</i>
Tutored students in multivariable calculus	
Mount Greylock Tutor , Williams College	<i>2010-2012</i>
Tutored local high school students in chemistry and physics	

PROFESSIONAL ACTIVITIES AND SERVICE

Co-organizer, Topology Reading Seminar , Dartmouth College	<i>2018-Present</i>
Organizer, Graduate Student Seminar , Dartmouth College	<i>2018-Present</i>
Department Representative, Graduate Student Council , Dartmouth College	<i>2018-2021</i>
Teaching Seminar , Dartmouth College Mathematics Department, Participant	<i>Summer 2019</i>
Intensive course focused on educational philosophy and practice, along with practicum	
Future Faculty Teaching Series Dartmouth Center for the Advancement of Learning	<i>Spring 2019</i>
Series on course design, instructional methods, and teaching practice and evaluation	
Facilitator, Teaching Assistant Orientation , Dartmouth College	<i>November 2018</i>
Led a graduate school-wide orientation for teaching assistants	
Dartmouth Teaching Assistant Discussion Group , Dartmouth College, Participant	<i>Fall 2017</i>

PRESENTATIONS

Joint Math Meetings, Special Session on Knots, Links, 3-Manifolds and 4-Manifolds	<i>January 2022</i>
Binghamton University Graduate Combinatorics, Algebra, and Topology Conference	<i>November 2021</i>
Dartmouth College Topology Seminar	<i>October 2021</i>
Dartmouth Graduate Student Seminar	<i>Quarterly, 2017-Present</i>
Joint Math Meetings, AMS Session on Undergraduate Research in Algebra, Combinatorics, and Number Theory	<i>January 2014</i>

HONORS AND AWARDS

Outstanding Grad Student Teacher , Dartmouth Center for the Advancement of Learning	<i>2018</i>
Departmental Thesis Honors , Williams College	<i>2014</i>
Phi Beta Kappa , Williams College	<i>2013</i>
Sigma Xi , Williams College	<i>2013</i>

CONFERENCES AND WORKSHOPS ATTENDED

Joint Math Meetings, Seattle, WA	<i>January 2022</i>
Binghamton University Graduate Combinatorics, Algebra, and Topology Conference, Binghamton, NY	<i>November 2021</i>
Foams and Webs, ICERM	<i>November 2021</i>
Gauge Theory in Geometry and Topology Summer School, MSRI	<i>July 2021</i>
Interactions of Gauge Theory with Contact and Symplectic Topology in Dimensions 3 and 4, BIRS	<i>June 2020</i>
Perspectives on Dehn Surgery, ICERM	<i>July 2019</i>

PROFESSIONAL MEMBERSHIPS

- American Mathematical Society (AMS) *since Fall 2013*
- Mathematical Association of America (MAA) *since Fall 2013*