Bradley Zykoski

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EDUCATION University of Michigan, Ann Arbor, Michigan Ph.D. Student in Mathematics, September 2017 – Present

University of Michigan, Ann Arbor, Michigan M.S. in Mathematics, April 2019

University of Virginia, Charlottesville, Virginia B.A. with Highest Distinction in Mathematics, May 2017 Minor: Philosophy

RESEARCH With M.I. Bueno, F.M. Dopico, J. Pérez, and R. Saavedra, A simplified approach to Fiedler-like pencils via block minimal bases pencils. Linear Algebra and its Applications, Vol. 547 (2018), pp. 45-104.

With Greg Muller and Jenna Rajchgot, *Lower bound cluster algebras: presentations, Cohen-Macaulayness, and normality.* Algebraic Combinatorics, Vol. 1 (2018), pp. 95-114.

TEACHING University of Michigan: EXPERIENCE

Winter 2019	Math 116	Calculus II	Primary Instructor
Fall 2018	Math 115	Calculus I	Primary Instructor
Winter 2018	Math 115	Calculus I	Primary Instructor
Fall 2017	Math 105	Data, Functions, and Graphs	Primary Instructor

University of Virginia:

Spring 2017	Math 4720	Introduction to Differential Geometry	Grader		
Fall 2016	Math 3340	Complex Variables with Applications	Grader		
Spring 2015	Math 3310	Basic Real Analysis	Grader		
2015-2017, Mathematics Tutor, University of Virginia Math Tutoring Center					

AWARDS E.J. McShane Prize, University of Virginia Mathematics Department, 2017

Goldwater Foundation Honorable Mention, 2016

E.E. Floyd Prize, University of Virginia Mathematics Department, 2015

Phi Eta Sigma Honor Society

SELECTEDTeichmüller spaces are complex manifoldsTALKS &University of Michigan Graduate Student Topology SeminarMarch 2019POSTERS

	McShane's identity University of Michigan Graduate Student Dynamics Seminar	January 2019		
	Counting simple geodesics, part I: Integration over moduli space University of Michigan Graduate Student Dynamics Seminar	October 2018		
	A brief tour of Teichmüller theory University of Michigan Graduate Student Topology Seminar	September 2018		
	Pre-workshop learning group on Higgs bundles 1-week mini-course at the University of Michigan	June 2018		
	TQFTs in context University of Michigan Graduate Student Topology Seminar	January 2018		
	An introduction to Khovanov homology University of Michigan Graduate Student Topology Seminar	November 2017		
	Link invariants via quantum \mathfrak{sl}_2 representations University of Michigan Graduate Student Representation Theory Seminar	November 2017		
	A unified approach to Fiedler-like pencils Summer Undergraduate and Graduate Research Colloquium at UCSB (poster) Young Mathematicians Conference at OSU SUMS Conference at JMU (poster)	August 2016 August 2016 September 2016		
	Lower bound cluster algebras and Stanley-Reisner complexes Geometry Labs United Conference at UIUC (poster) SUMS Conference at JMU Student Research Talks at GMU	August 2015 September 2015 October 2015		
CONFERENCES & WORKSHOPS	• Flat Surfaces and Dynamics on Moduli Space, II Casa Matemática Oaxaca, May 2019			
ATTENDED	• Graduate School on Geometry of Teichmüller Spaces Simon's Center for Geometry and Physics, April 2019			
	• Graduate Student Topology and Geometry Conference University of Illinois at Urbana-Champaign, March 2019			
	• Junior Topology and Geometry in the Midwest University of Wisconsin, Madison, October 2018			
	• Workshop on Geometry of Teichmüller Space The Fields Institute, August 2018			
	• RTG Workshop on the Geometry and Physics of Higgs Bundles III University of Illinois at Chicago, June 2018			
	• Graduate Student Topology and Geometry Conference University of Illinois at Chicago, April 2018			
	• Shenandoah Undergraduate Mathematics and Statistics Conference James Madison University, September 2016			
	• Young Mathematicians Conference The Ohio State University, August 2016			

- Shenandoah Undergraduate Mathematics and Statistics Conference James Madison University, September 2015
- Geometry Labs United Conference University of Illinois at Urbana-Champaign, August 2015