## William E. Olsen

Unive Depa 141 C Char	ersity of Virginia rtment of Mathematics Cabell Drive, Kerchof Hall lottesville, Virginia 22903	weo3y@virginia.edu www.williamolsen.github.io Phone: +1 (804) 402-1351	
Education	<b>University of Georgia</b> Ph.D, Mathematics, 2020 <i>Dissertation title:</i> Trisections at Advised by David T. Gay	nd Ozsváth-Szabó Four-Manifold Invariants	
	<b>University of North Florida</b> M.Sc., Mathematics, 2014 <i>Thesis title</i> : Transitions in Line Bitangency Submanifolds for a One-Parameter Family of Immersion Pairs Advised by Daniel Dreibelbis		
	<b>University of North Florida</b> B.Sc., Mathematics, 2012.		
Research	<b>Low-dimensional topology</b> Trisections of four-manifolds, Floer homology theories, microlocal sheaf theory		
Awards and Fellowships	<b>University of Virginia</b> RTG Research Associate and L	ecturer	
	University of Georgia University Outstanding Teaching Assistant Award MATH 2250, 2017		
	<b>GRSC 7770 Teaching Assistanceship</b> Fall 2017 Fall 2018		
	B.J. Ball Scholarship		

Summer 2016 Summer 2017 Summer 2018

PUBLICATIONS AND PREPRINTS	Structure and transitions for line bitangencies from a one-parameter family of surface pairs, joint with Daniel Dreibelbis. Journal of Geometry		
	Trisecting Ozsváth-Szabó Four-manifold Invariants University of Georgia Pro Quest Dissertations Publishing		
	Trisections and Ozsváth-Szabó Cobordism Invariants (Submitted)		
	Trisecting Engel four-manifolds ( <i>in-progress</i> )		
	Singular fibrations and open-closed maps (in-progress)		
	Microlocal sheaves and bridge-trisections ( <i>in-progress</i> )		
	On the Alexander invariants of bridge-trisected 2-knots, joint with E. Clelland, A. Emmons, L. Grisales, C. Godfrey ( <i>in-progress</i> )		
External Talks	University of Georgia Topology Seminar, November 21, 2022		
	AMS Sectional Meeting at University of Tennessee Special session in low-dimensional topology, October 14 - 16, 2022		
	AMS Sectional Meeting at Purdue University Special session in low-dimensional topology, March 26 - 27, 2022		
	MIT Geometry and Topology Seminar, May 10, 2021		
	Princeton Topology Seminar, April 29, 2021		
	Virtual Trisector's Seminar, July 30, 2021		
	Max Planck Institute for Mathematics, Topology Seminar, December 16, 2019		
	Max Planck Institute for Mathematics Oberseminar, October 23, 2019		
	Workshop on 4-manifolds 'picture show', September 16-20, 2019		
	Virginia Topology Conference, December 12-14, 2018		
	Georgia Tech Topology Conference 'lightning talk', December 7-9, 2018		
	AMS Northeastern Sectional Meeting, Special Session on Connections Between Trisections of 4-manifolds and Low-dimensional Topology, April 21-22, 2018		

## TEACHING University of Virginia

Instructor, MATH 2310 Multi-variable calculus, Fall 2020 Instructor, MATH 2310 Multi-variable calculus, Spring 2021 Instructor, MATH 8750 Topology of Manifolds, Fall 2021 Instructor, MATH 2310 Multi-variable calculus, Spring 2022

## University of Georgia

Instructor, GRSC 7770 Graduate Teaching Seminar, Fall 2018 Instructor, MATH 1113 Precalculus, Fall 2018 Instructor, GRSC 7770 Graduate Teaching Seminar, Fall 2017 Instructor, MATH 1113 Precalculus, Fall 2017

SERVICE University of Virginia REU Topology group mentor, Summer 2021

## University of Georgia

Organizer, Graduate Student Topology Seminar, Fall 2016 - Present

References	David T. Gay	Tom E. Mark
	Department of Mathematics	Department of Mathematics
	University of Georgia	University of Virginia
	dgay@math.uga.edu	${\rm tmark}@{\rm virginia.edu}$
	Peter Lambert-Cole	Jim Rolf
	Department of Mathematics	Department of Mathematics
	University of Georgia	University of Virginia
	plc@uga.edu	jsr2pz@virginia.edu