Rylee Alanza Lyman

Contact	Department of Mathematics and Computer Science Smilth Hall, Rutgers University at Newark Newark, NJ 07102	E-mail: rylee.alanza@gmail.com Mobile: 952.465.6895 Webpage: https://ryleealanza.org	
Interests	Geometric group theory, geometric topology, outer automorphism groups, mapping class groups, Coxeter groups, deformation spaces of group actions, hyperbolic and CAT(0) geometry.		
Appointments	Rutgers University at Newark, Postdoctoral Associate		
Education	Tufts University, PhD in Mathematics (Advisor: Kim Ruane) Tufts University, MS in Mathematics Columbia University, BA in Mathematics (honors) & Music, cum laude		
Research	Nielsen realization for infinite-type surfaces Submitted. (with S. Afton, D. Calegari and L. Chen) Available at arXiv:2002.09760 [Math.GT] Train Tracks on Graphs of Groups and Outer Automorphisms of Hyperbolic Groups PhD thesis. Available at arXiv:2005.00164 [Math.GR] Train Tracks, Orbigraphs and CAT(0) Free-By-Cyclic Groups Available at: arXiv:1909.03097 [Math.GR] Doubly-Uniform Exponential Growth for Free-By-Cyclic Groups In preparation. (with Robert Kropholler and Thomas Ng) Folding for Cube Complexes In preparation. (with Michael Ben-Zvi and Robert Kropholler)		
Awards	Robert P. Guertin Student Leadership Award finalist Head Teaching Assistant	2020 AY 2019–20	
Conference & Seminar	Geometric Group Theory without Boundaries Mini-course on Bass-Serre Theory	July 2020	
Talks	Trends in Low-Dimensional Topology Geometry and Topology Online Warwick Mathematics Institute Topology Seminar	June 2020 June 2020	
	University of California Riverside Geometric Topology Seminar	May 2020 Apr 2020	
	Columbia University Topology Seminar	-	
	University of Wisconsin at Milwaukee	Mar 2020	
	Pick My Brain Seminar Northeastern University	Feb 2020	
	Geometric Group Theory Seminar McGill University	Jan 2020	
	Hyperbolic Lunch	Jan 2020	
	University of Toronto Dynamics, Geometry and Groups Seminar	Jan 2020	
	Queens University Boston Topology Seminar	Jan 2020	
	Brandeis University Special Session, AMS Sectional Meeting Effective and Quantitative Advances in Low Dimension	, 00	
	and Geometric Group Theory, Binghamton University Algebra/Topology Seminar State University of New York at Albany	Oct 2019	
	Graduate Seminar Temple University	Sep 2019	

	Geometry and Topology Seminar Temple University	Sep 2019
	LG&TBQ	June 2019
	University of Michigan Graduate Student Conference in Algebra, Geometry and Topolo Temple University	ogy June 2019
	Spring Topology and Dynamical Systems Conference	Mar 2019
	University of Alabama at Birmingham Geometric Group Theory and Topology Seminar Tufts University	Nov 2018
	Eminar Tufts Student Seminar, 6 talks	2017–2019
Conference	RTG Mini-Conference	Feb 2020
Participation	University of Utah Tech Topology Conference <i>Lightning Talk,</i> Georgia Institute of Technology	Dec 2019
	Algorithms in Complex Dynamics and Mapping Class Groups ICERM, Brown University	Nov 2019
	Junior Geometry and Topology in the Midwest University of Wisconsin at Madison	Oct 2019
	Wasatch Topology Conference	Aug 2019
	University of Utah, Brigham Young University Aspects of Geometric Group Theory Institut des Hautes Études Scientifiques	July 2019
	Young Geometric Group Theory VIII Lightning Talk, Colegio Mayor Miguel de Unamuno	July 2019
	Spring Opportunities Workshop American Institute of Mathematics	Apr 2019
	Graduate Student Topology and Geometry Conference Lightning Talk, University of Illinois at Urbana-Champaign	Mar 2019
	Junior Geometry and Topology in the Midwest University of Wisconsin at Madison	Oct 2018
	Women and Mathematics Program Institute for Advanced Study	May 2016
Teaching	Co-organizer, Graduate Development Seminar Instructor of Record, Math of Social Choice, Tufts University	AY 2019–20 Spring 2019, Summer 2019
	Recitation Leader, Calculus I, Tufts University	Fall 2019
0	Recitation Leader, Calculus II, Tufts University	Spring 2017, Spring 2018, Fall 2018
Service	Co-organizer, Tufts Directed Reading Program Mentor, Tufts Directed Reading Program Organizer, Geometric Group Theory Reading Seminar Treasurer, Tufts Organization of Graduate Students in Mathematics Mathematics Department Graduate Union Steward Mathematics Department Representative, Tufts Graduate Student Graduate Student Member, Tufts Committee on Curricula Mentor, Tufts Directed Reading Program	AY 2017–19
References	Kim Ruane (Advisor)	kim.ruane@tufts.edu
ALI ERENCES	Mladen Bestvina Mark Hagen Robert Kropholler Zachary Faubion (Teaching reference)	bestvina@math.utah.edu mark.hagen@bristol.ac.uk robert.kropholler@tufts.edu zachary.faubion@tufts.edu
Other	Languages: English (native), German (intermediate), Japanese (i Citizenship: United States of America	ntermediate)