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.or	rg
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		2020–2023
Education	Tufts University, PhD in Mathematics (Advisor: Kim R	luane)	May 2020
	Tufts University, MS in Mathematics		May 2017
	Columbia University, BA in Mathematics (honors) & N	Ausic, cum laude	May 2015
Research	Extensions of Hyperbolic Groups Have Locally Uniform Exponential Growth Submitted. (with Robert Kropholler and Thomas Ng) Available at arXiv:2012.14880 [Math.GR] Folding-like Techniques for CAT(0) Cube Complexes Submitted. (with Michael Ben-Zvi and Robert Kropholler) Available at arXiv:2011.05374 [Math.GR] Some New CAT(0) Free-by-Cyclic Groups To appear in the Michigan Math Journal. Available at: arXiv:1909.03097 [Math.GR] Nielsen Realization for Infinite-Type Surfaces To appear in Proceedings of the AMS. (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 Track Maps and CTs on Graphs of Groups In preparation.		
Awards	Robert P. Guertin Student Leadership Award finalist Head Teaching Assistant	A	2020 Y 2019–20
Conference & Seminar	Random and Arithmetic Structures in Topology Seminar Mathematical Sciences Research Institute		Dec 2020
Talks	Geometry and Topology Seminar City University of New York		Nov 2020
	Geometry and Topology Seminar Binghamton University		Oct 2020
	Pure Math Seminar University of North Carolina–Greensboro		Oct 2020
	Big Surf(aces) Seminar		Oct 2020
	Mathematics Colloquium		Sep 2020
	Rutgers University–Newark Geometric Group Theory without Boundaries Mini-course on Bass–Serre Theory		July 2020
	Trends in Low-Dimensional Topology		June 2020
	Geometry and Topology Online Warwick Mathematics Institute		June 2020
	Topology Seminar University of California Riverside		May 2020
	Geometric Topology Seminar Columbia University		Apr 2020
	Topology Seminar University of Wisconsin at Milwaukee		Mar 2020
	Pick My Brain Seminar Northeastern University		Feb 2020

	Geometric Group Theory Seminar	Jan 2020
	McGill University Hyperbolic Lunch	Jan 2020
	University of Toronto Dynamics, Geometry and Groups Seminar	Jan 2020
	Queens University	Jan 2020
	Boston Topology Seminar	Jan 2020
	Brandeis University Special Session, AMS Sectional Meeting	Oct 2019
	Effective and Quantitative Advances in Low Dimensional Topolog	
	and Geometric Group Theory, Binghamton University	-
	Algebra/Topology Seminar State University of New York at Albany	Oct 2019
	Graduate Seminar	Sep 2019
	Temple University	2 - 2210
	Geometry and Topology Seminar	Sep 2019
	Temple University LG&TBQ	June 2019
	University of Michigan	June 2017
	Graduate Student Conference in Algebra, Geometry and Topolo Temple University	J une 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
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Conference	RTG Mini-Conference	Feb 2020
Participation	University of Utah	Dec 2019
	Tech Topology Conference Lightning Talk, Georgia Institute of Technology	Dec 2019
	Algorithms in Complex Dynamics and Mapping Class Groups	Nov 2019
	ICERM, Brown University Junior Geometry and Topology in the Midwest	Oct 2019
	University of Wisconsin at Madison	2017
	Wasatch Topology Conference	Aug 2019
	University of Utah, Brigham Young University Aspects of Geometric Group Theory	July 2019
	Institut des Hautes Études Scientifiques	
	Young Geometric Group Theory VIII Lightning Talk, Colegio Mayor Miguel de Unamuno	July 2019
	Spring Opportunities Workshop	Apr 2019
	American Institute of Mathematics Graduate Student Topology and Geometry Conference	Mar 2019
	Lightning Talk, University of Illinois at Urbana-Champaign	ividi 2017
	Junior Geometry and Topology in the Midwest	Oct 2018
	University of Wisconsin at Madison Women and Mathematics Program	May 2016
	Institute for Advanced Study	May 2016
Teaching	·	AY 2019–20
1 EACHING	Co-organizer, Graduate Development Seminar Instructor of Record, Math of Social Choice, Tufts University	Spring 2019, Summer 2019
	Recitation Leader, Calculus I, Tufts University	Fall 2019
	Recitation Leader, Calculus II, Tufts University	Spring 2017, Spring 2018, Fall 2018
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Service	Co-organizer, Geometric Group Theory Without Boundaries Summer	School July 2020	
	Co-organizer, Tufts Directed Reading Program	AY 2018–20	
	Mentor, Tufts Directed Reading Program	Fall 2019	
	Organizer, Geometric Group Theory Reading Seminar	AY 2019–20	
	Treasurer, Tufts Organization of Graduate Students in Mathematics	AY 2018–19	
	Mathematics Department Graduate Union Steward	AY 2017-19	
	Mathematics Department Representative, Tufts Graduate Student Cou	ıncil AY 2017–18	
	Graduate Student Member, Tufts Committee on Curricula	AY 2017-18	
	Mentor, Tufts Directed Reading Program	Summer 2016	
References	Kim Ruane (Advisor)	kim.ruane@tufts.edu	
	Mladen Bestvina	bestvina@math.utah.edu	
	Mark Hagen	mark.hagen@bristol.ac.uk	
	Robert Kropholler	robert.kropholler@tufts.edu	
	Zachary Faubion (Teaching reference)	zachary.faubion@tufts.edu	
Other	Languages: English (native), German (intermediate), Japanese (intermediate)		
	Citizanshin, United States of America		

Citizenship: United States of America