Rylee Alanza Lyman

Haverford College

Солтаст	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	End Invariants of Outer Automorphisms of Free Products of Finite and Cyclic Groups In preparation. Étale Groupoids and Mapping Class Groups of Orbifolds and Graphs of Groups In preparation. (with Tyrone Ghaswala) Train Track Maps and CTs on Graphs of Groups Submitted. Available at arXiv:2102.02848 [Math.GR] 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 To appear in Math. Proc. Camb. Philos. Soc. (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 Proc. Amer. Math. Soc. 149 (2021), 1791–1799 (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]			
Conference & Seminar Talks	Joint Mathematics Meetings Topics and Generalizations in Geometric Group Theory Low-Dimensional Manifolds, Seattle	Apr 2022 , Seattle		
	Mathematics Colloquium	Mar 2022		
	Wesleyan University Special Session, AMS Sectional Meeting	Mar 2022		
	Subgroups in Nonpositive Curvature, Tufts University Spring Topology and Dynamical Systems Conference Baylor University	Mar 2022		
	Tetrahedral Geometry/Topology Seminar West Chester University	Mar 2022		
	Joint Geometry & Topology Seminar Bowling Green State University / University of Tol	Nov 2021 edo		
	Geometry & Topology Seminar Temple University	Nov 2021		
	Mathematics & Statistics Colloquium Swarthmore College	Nov 2021		
	North British Geometric Group Theory Seminar Newcastle University	Nov 2021		
	Bi-College Math/Stat Colloquium Haverford College	Oct 2021		

World of Geometric Group Theory	Aug 2021
Groups and Geometry in the South East	June 2021
Oxford University	T 0004
Nearly Carbon Neutral Geometric Topology	June 2021
Dynamics and Group Geometry Early Researchers Seminar Warwick University	May 2021
Geometric Group Theory and Topology Seminar	Mar 2021
Tufts University	14141 2021
MAXIMALS Algebra, Geometry and Topology Seminar Heriot-Watt University	Mar 2021
Geometry and Topology Seminar Bristol University	Feb 2021
Geometry and Topology Seminar Yale University	Feb 2021
Random and Arithmetic Structures in Topology Seminar	Dec 2020
Mathematical Sciences Research Institute	
Geometry and Topology Seminar	Nov 2020
City University of New York Geometry and Topology Seminar	Oct 2020
Binghamton University	OCI 2020
Pure Math Seminar	Oct 2020
University of North Carolina–Greensboro	
Big Surf(aces) Seminar	Oct 2020
Mathematics Colloquium	Sep 2020
Rutgers University–Newark	
Geometric Group Theory without Boundaries	July 2020
Mini-course on Bass–Serre Theory Trends in Low-Dimensional Topology	June 2020
Geometry and Topology Online	June 2020
Warwick Mathematics Institute	June 2020
Topology Seminar	May 2020
University of California Riverside	,
Geometric Topology Seminar	Apr 2020
Columbia University	
Topology Seminar	Mar 2020
University of Wisconsin at Milwaukee Pick My Brain Seminar	Feb 2020
Northeastern University	160 2020
Geometric Group Theory Seminar	Jan 2020
McGill University	,
Hyperbolic Lunch	Jan 2020
University of Toronto	
Dynamics, Geometry and Groups Seminar Queens University	Jan 2020
Brandeis University	Jan 2020
Special Session, AMS Sectional Meeting	Oct 2019
Effective and Quantitative Advances in Low Dimensional Topology and Geometric Group Theory, Binghamton University	
Algebra/Topology Seminar	Oct 2019
State University of New York at Albany	
Graduate Seminar	Sep 2019
Temple University	
Geometry and Topology Seminar	Sep 2019
Temple University LG&TBQ	June 2019
University of Michigan	Julie 2019

	Graduate Student Conference in Algebra, Geometry and Topology	June 2019
	Temple University	Julie 2017
	Spring Topology and Dynamical Systems Conference University of Alabama at Birmingham	Mar 2019
	Geometric Group Theory and Topology Seminar	Nov 2018
	Tufts University	
	Eminar Tufts Student Seminar, 6 talks	2017–2019
	VOCTV	I1 2021
Conference Participation	YGGT X Lightning Talk, Newcastle University	July 2021
TARTICITATION	Artin Groups, CAT(0) Geometry and Related Topics	July 2021
	The Ohio State University	july 2021
	ParaDIGMS Spring Conference	April 2021
	AMS, IMSI	1
	Tech Topology Conference	Dec 2020
	Lightning Talk, Georgia Institute of Technology	
	RTG Mini-Conference	Feb 2020
	University of Utah	D 2010
	Tech Topology Conference	Dec 2019
	Lightning Talk, Georgia Institute of Technology	NI 2010
	Algorithms in Complex Dynamics and Mapping Class Groups ICERM, Brown University	Nov 2019
	Junior Geometry and Topology in the Midwest	Oct 2019
	University of Wisconsin at Madison	Oct 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	July 2019
	Lightning Talk, Colegio Mayor Miguel de Unamuno	
	Spring Opportunities Workshop	Apr 2019
	American Institute of Mathematics	
	Graduate Student Topology and Geometry Conference Lightning Talk, University of Illinois at Urbana-Champaign	Mar 2019
	Junior Geometry and Topology in the Midwest	Oct 2018
	University of Wisconsin at Madison	Oct 2010
	Women and Mathematics Program	May 2016
	Institute for Advanced Study	11111y 2 010
Outreach	Panelist, "US-Based Jobs Panel," YGGT X	July 2021
	Co-organizer, Geometric Group Theory Without Boundaries Summer School	July 2021
	Participant, ParaDIGMS Diversity in Graduate Mathematical Sciences conference	Apr 2021
	Panelist, "Gender in Mathematics" Rutgers University	Mar 2021
	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
	Mentor, Tufts Directed Reading Program	Summer 2016

Teaching	Rutgers University Calculus II Calculus II Basic Linear Algebra Calculus II	Spring 2022 Fall 2021 Fall 2021 Spring 2021
	Topology	Fall 2020
	Tufts University	
	Co-organizer, Graduate Development Seminar Co-organizer, Graduate Development Seminar Math of Social Choice Math of Social Choice	Spring 2020 Fall 2019 Summer 2019 Spring 2019
Awards	Robert P. Guertin Student Leadership Award finalist Head Teaching Assistant	2020 AY 2019–20
Service	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 Council Graduate Student Member, Tufts Committee on Curricula	AY 2019–20 AY 2018–19 AY 2017–19 AY 2017–18 AY 2017–18
Other	Languages: English (native), German (intermediate), Japanese (intermediate) Citizenship: United States of America	