

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	2020–2023
EDUCATION	Tufts University , PhD in Mathematics (Advisor: Kim Ruane) Tufts University , MS in Mathematics Columbia University , BA in Mathematics (honors) & Music, <i>cum laude</i>	May 2020 May 2017 May 2015
RESEARCH	Some New CAT(0) Free-by-Cyclic Groups <i>To appear in the Michigan Math Journal.</i> Available at: arXiv:1909.03097 [Math.GR] Nielsen Realization for Infinite-Type Surfaces <i>To appear in Proceedings of the AMS.</i> (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 <i>PhD thesis.</i> Available at arXiv:2005.00164 [Math.GR] Doubly-Uniform Exponential Growth for Free-By-Cyclic Groups <i>In preparation.</i> (with Robert Kropholler and Thomas Ng) Folding for Cube Complexes <i>In preparation.</i> (with Michael Ben-Zvi and Robert Kropholler)	
AWARDS	Robert P. Guertin Student Leadership Award finalist Head Teaching Assistant	2020 AY 2019–20
CONFERENCE & SEMINAR	Mathematics Colloquium Rutgers University–Newark	Sep 2020
TALKS	Geometric Group Theory without Boundaries Mini-course on Bass–Serre Theory Trends in Low-Dimensional Topology Geometry and Topology Online Warwick Mathematics Institute Topology Seminar University of California Riverside Geometric Topology Seminar Columbia University Topology Seminar University of Wisconsin at Milwaukee Pick My Brain Seminar Northeastern University Geometric Group Theory Seminar McGill University Hyperbolic Lunch University of Toronto Dynamics, Geometry and Groups Seminar Queens University Boston Topology Seminar Brandeis University Special Session, AMS Sectional Meeting <i>Effective and Quantitative Advances in Low Dimensional Topology and Geometric Group Theory</i> , Binghamton University Algebra/Topology Seminar State University of New York at Albany	July 2020 June 2020 June 2020 May 2020 Apr 2020 Mar 2020 Feb 2020 Jan 2020 Jan 2020 Jan 2020 Jan 2020 Oct 2019 Oct 2019

	Graduate Seminar	Sep 2019
	Temple University	
	Geometry and Topology Seminar	Sep 2019
	Temple University	
	LG&TBQ	June 2019
	University of Michigan	
	Graduate Student Conference in Algebra, Geometry and Topology	June 2019
	Temple University	
	Spring Topology and Dynamical Systems Conference	Mar 2019
	University of Alabama at Birmingham	
	Geometric Group Theory and Topology Seminar	Nov 2018
	Tufts University	
	Eminar Tufts Student Seminar, 6 talks	2017–2019
CONFERENCE PARTICIPATION	RTG Mini-Conference	Feb 2020
	University of Utah	
	Tech Topology Conference	Dec 2019
	<i>Lightning Talk</i> , Georgia Institute of Technology	
	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	
	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
	<i>Lightning Talk</i> , Colegio Mayor Miguel de Unamuno	
	Spring Opportunities Workshop	Apr 2019
TEACHING	American Institute of Mathematics	
	Graduate Student Topology and Geometry Conference	Mar 2019
	<i>Lightning Talk</i> , University of Illinois at Urbana-Champaign	
	Junior Geometry and Topology in the Midwest	Oct 2018
	University of Wisconsin at Madison	
SERVICE	Women and Mathematics Program	May 2016
	Institute for Advanced Study	
	Co-organizer, Graduate Development Seminar	AY 2019–20
	Instructor of Record, Math of Social Choice, Tufts University	Spring 2019, Summer 2019
	Recitation Leader, Calculus I, Tufts University	Fall 2019
REFERENCES	Recitation Leader, Calculus II, Tufts University	Spring 2017, Spring 2018, Fall 2018
	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 Council	AY 2017–18
	Graduate Student Member, Tufts Committee on Curricula	AY 2017–18
	Mentor, Tufts Directed Reading Program	Summer 2016
	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)

Citizenship: United States of America