

Derrick Wigglesworth

CONTACT INFORMATION	University of Utah Department of Mathematics Salt Lake City, UT 84112	mobile: (301) 802-1431 e-mail: dwiggles@math.utah.edu website: math.utah.edu/~dwiggles
RESEARCH INTERESTS	Geometric group theory, outer automorphism groups of free groups and RAAGs, mapping class groups, Farrell-Jones conjecture and other connections between topology and algebra	
EDUCATION AND POSITIONS HELD	Fields Institute , Toronto, Ontario, Canada <i>Postdoctoral Fellow</i>	[July – December 2018]
	University of Utah , Salt Lake City, Utah, USA <i>Doctor of Philosophy</i> , Advisor: Mladen Bestvina	[August 2012 – May 2018]
	University of Maryland , College Park, Maryland, USA <i>Bachelor of Mathematics</i> , Magna Cum Laude <i>Bachelor of Physics</i> , Magna Cum Laude	[2009 – 2012]
HONORS AND AWARDS	Dept. of Mathematics Outstanding Graduate Student Award , University of Utah, 2017. Dept. of Mathematics Outstanding Senior Award , University of Maryland, 2013. Dept. of Mathematics Higginbotham Award , University of Maryland, 2012.	
PUBLICATIONS	<ul style="list-style-type: none">• D. Wigglesworth, “<i>Distortion for abelian subgroups of $Out(F_n)$</i>”, to appear in International Journal of Algebra and Computation.• R. Gupta and D. Wigglesworth, “<i>Loxodromics for the cyclic splitting complex and their centralizers</i>”, arXiv:1710.10478.• M. Bestvina and K. Fujiwara and D. Wigglesworth, “<i>Farrell-Jones conjecture for free-by-cyclic groups</i>”, in preparation.	
TEACHING EXPERIENCE	University of Utah , Salt Lake City, Utah, USA <ul style="list-style-type: none">• <i>Introduction to Quantitative Analysis</i>• <i>Trigonometry</i>• <i>Calculus I</i>• <i>Calculus II</i>• <i>Linear Algebra</i>	[Fall 2012, Spring 2013, Spring 2014] [Fall 2013] [Summer 2013, Summer 2016] [Summer 2014] [Fall 2015, Fall 2017]
TALKS	<ul style="list-style-type: none">• Ergodic Theory Seminar, University of Rennes 1• Topology Seminar, UC Berkeley• Joint Math Meetings, San Diego, CA• AMS Fall Western Sectional, UC Riverside• Max Dehn Seminar, Univ. of Utah• $Out(F_n)$-Complexes Seminar, MSRI• Graduate Student Seminar, MSRI• Topology Students Workshop, GA Tech	March 2018 February 2018 January 2018 November 2017 February 2017 October 2016 September 2016 June 2016
PROGRAMMING	Python, Matlab, Sage, \LaTeX 2 ϵ .	

CONFERENCES
ATTENDED

- Geometry of outer spaces and outer automorphism groups, Univ. of Warwick April 2018
- Geometry of Teichmuller space and mapping class groups, Univ. of Warwick April 2018
- Topological and Homological Methods in Group Theory, Bielefeld Univ., Germany April 2018
- Young Geometric Group Theory VII, Les Diablerets, Switzerland March 2018
- Groups Explored through Topology & Geometry, Princeton Univ. Sept 2017
- Shanks Conference in Low Dim'l Topology & Geom, Vanderbilt Univ. May 2017
- MSRI Program Associate, Berkeley CA August-December, 2016
- Topology Students Workshop, Georgia Tech June, 2016
- Workshop on Mapping Class Groups and $Out(F_n)$, UT Austin May, 2015
- 33rd, 34th, 35th, 37th, 38th Wasatch Topology Conferences, University of Utah

SERVICE AND
OUTREACH

Service

- Graduate Student Advisory Committee Cochair [2017-2018]
- College of Science Council [2017-2018]
- TA Training Facilitator [Fall 2017]
- Retention Promotion & Tenure Committee [2015-2016]
- Math Teacher's Circle (Workshop for K12 educators) [Fall 2017]

Outreach Talks

- Undergraduate Colloquium: "*Games of No Chance*" [Sept 2017]
- Graduate Colloquium: "*Limitations of a Ruler & Compass*" [Aug 2017]
- Graduate Colloquium: "*Turing Machines and the Halting Problem*" [Sep 2014]
- Graduate Colloquium: "*Hilbert's Program & Gödel's Incompleteness Theorem*" [Feb 2014]

REFERENCES

Mladen Bestvina

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Kelly MacArthur (Teaching)

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