

Priyam Patel

CONTACT INFORMATION	Department of Mathematics University of Utah Salt Lake City, UT 84112	<i>E-mail:</i> patelp@math.utah.edu <i>Mobile:</i> (201) 388-2225 <i>Webpage:</i> www.patelp.com
RESEARCH INTERESTS	My research interests lie in the fields of low-dimensional topology, hyperbolic geometry, and geometric group theory. In particular, I study hyperbolic manifolds, the mapping class groups of surfaces (of both finite and infinite type), separability properties of groups, right-angled Artin groups, cube complexes, Teichmüller theory, the combinatorics of 3-manifolds, and representations of surface and 3-manifold groups.	
POSITIONS	University of Utah , Assistant Professor	2019–
	University of California, Santa Barbara , Visiting Assistant Professor	2016–2019
	Purdue University , Golomb Visiting Assistant Professor	2013–2016
EDUCATION	Rutgers University, New Brunswick , Ph.D. in Mathematics (Advisor: Feng Luo)	May 2013
	New York University , B.A. in Mathematics (Magna Cum Laude with Honors)	May 2008
AWARDS & GRANTS	Co-PI, NSF RTG DMS-1840190: Algebra, Geometry, and Topology at the University of Utah	2019-2024
	NSF Grant DMS-1812014, 1937969: The Covers, Symmetries, and Combinatorics of Manifolds	2018-2021
	Mochizuki Memorial Award for Outstanding Contributions to Teaching	2019
	AWM Travel Grant	2018
	AMS-Simons Travel Grant	2015–2017
	Spira Teaching Award for Excellence in Undergraduate Teaching	2016
	National Society for Collegiate Scholars Inspiring Integrity Award	2016
	Purdue Favorite Faculty Award	2015
	GAANN Fellowship for Graduate Studies in Mathematics	2011 & 2008
	Rutgers University, Teaching Excellence Award	2011
PUBLICATIONS & PREPRINTS	Covers of surfaces, Kleinian groups, and the curve complex <i>Submitted.</i> (with T. Aougab and S. Taylor) Available at: arXiv:1810.12953 [math.GT]	
	Effective virtual and residual properties of some arithmetic hyperbolic 3-manifolds <i>Submitted.</i> (with J. Deblois and N. Miller) Available at: arXiv:1806.02360 [math.GT]	
	The first integral cohomology of pure mapping class groups <i>Submitted.</i> (with J. Aramayona and N.G. Vlamis) Available at: arXiv:1711.03132 [math.GT]	
	Algebraic and topological properties of big mapping class groups <i>Algebr. Geom. Topol.</i> 18-7 (2018), p. 4109-4142 (with N.G. Vlamis)	
	Building hyperbolic metrics suited to closed curves and applications to lifting simply <i>Math. Res. Lett.</i> 24 (2017), no. 3, p. 593-617. (with T. Aougab, J. Gaster, and J. Sapir)	
	Zariski closures and subgroup separability <i>Selecta Math.</i> 23 (2017), Issue 3, p. 2019-2027. (with L. Louder and D.B. McReynolds)	
	Quantifying separability in virtually special groups <i>Pacific J. Math.</i> 284-1 (2016), p. 103-120. (with M.F. Hagen)	
	On the residual finiteness growths of particular hyperbolic manifold groups <i>Geom. Dedicata.</i> 185 (2016), Issue 1, p. 87–103.	

Residual finiteness growths of virtually special groups
Math. Z. **279** (2015), no. 1–2, p. 297–310. (with K. Bou-Rabee and M.F. Hagen)

On a theorem of Peter Scott
Proc. Amer. Math. Soc. **142** (2014), p. 2891–2906.

MENTORING	Yassin Chandran, undergraduate student at UCSB	2019
	Mark Pengitore, Ph.D. student at Purdue University (advisor: Ben McReynolds)	2013–2016
	Milana Golich, undergraduate student at Purdue University	2014–2016
UPCOMING TRAVEL	Low-dimensional Topology Conference , Oberwolfach, Germany	Feb 2020
	In and Around Hyperbolic Geometry Barco de Avila, Spain	Jun 2020
PAST INVITED TALKS (CONFERENCES & COLLOQUIA)	5th Annual Graduate Student Conference in Algebra, Geometry, and Topology , Temple University	Jun 2019
	Geodesics on real hyperbolic manifolds , Connecticut College	Aug 2018
	Thin groups in Number Theory, Geometry and Topology , Rice University	May 2018
	Geometry of Teichmüller space and mapping class groups , University of Warwick	Apr 2018
	Graduate Student Topology and Geometry Conference , UIC	Apr 2018
	Mathematical Congress of the Americas , Special Session on Geometric Group Theory	Jul 2017
	Shanks Conference on Low-dimensional Topology and Geometry , Vanderbilt	May 2017
	Redbud Geometry/Topology Conference , University of Arkansas	Apr 2017
	AWM Research Symposium <i>Special session on Geometric Group Theory</i> , UCLA	Apr 2017
	Spring Topology and Dynamics Conference <i>Special session on Geometric Group Theory</i> , NJCU	Mar 2017
	Bowdoin College Colloquium	Jan 2017
	Louisiana State University Colloquium	Jan 2017
	University of Fribourg Colloquium	Dec 2016
	Temple University Colloquium	Nov 2016
	Effective and Algorithmic Methods in Hyperbolic Geometry and Free Groups	May 2016
	Women and Math Research Seminar Series , Institute for Advanced Study	May 2016
	Eastern Illinois Geometry, Dynamics and Topology Conference	Apr 2016
	Bloomington Geometry Workshop	Apr 2016
	Sectional AMS Meeting Special Session <i>Geometry of groups, surfaces and 3-manifolds</i> , Rutgers University	Nov 2015
	Wasatch Topology Conference , Park City, UT	Aug 2015
	Sectional AMS Meeting Special Session <i>Interactions Between Geometry, Group Theory & Number Theory</i> , Michigan State University	Mar 2015
	Sectional AMS Meeting Special Session <i>Geometric Group Theory and Topology</i> , University of Alabama	Mar 2015
	Third Annual Midwest Women in Mathematics Symposium Special Session <i>Algebraic and Geometric Topology</i> , Dominican University	Mar 2015
Geometry, Groups and Dynamics , Rose-Hulman Institute	Feb 2015	
Young Geometric Group Theory in the Midwest , Madison, WI	Nov 2014	
Topology Students Workshop Research Talk, Georgia Tech	Jun 2014	

	Geometric Groups on the Gulf Coast Conference	Mar 2013
	Joint Meetings of the AMS Special Session <i>Topics in geometric and analytic methods in Teichmüller theory and hyperbolic geometry</i>	Jan 2013
PAST INVITED TALKS (SEMINARS)	University of Washington Rainwater Seminar	Oct 2018
	Berkeley Topology Seminar	Feb 2018
	Rice University Topology Seminar	Feb 2018
	Rutgers Topology Seminar	Oct 2017
	University of Southern California Geometry and Topology Seminar	Apr 2017
	Caltech Geometry and Topology Seminar	Apr 2017
	University of Glasgow Geometry and Topology Seminar	Dec 2016
	University of Chicago Geometry/Topology Seminar	Nov 2016
	San Francisco State University Algebra/Geometry/Combinatorics Seminar	Oct 2016
	Rutgers University Topology/Geometry Seminar	Apr 2016
	CUNY Hyperbolic Geometry Seminar	Feb 2016
	University of Texas at Austin Topology Seminar	Oct 2015
	Temple University Geometry-Topology Seminar	Apr 2015
	Rutgers University Topology Seminar	Apr 2015
	Cornell University Topology/Geometric Group Theory Seminar	Apr 2015
	University of Toronto Geometry & Topology Seminar	Feb 2015
	Purdue University Geometry Seminar	Feb 2015
	Stanford University Geometry & Topology Seminar	Oct 2014
	University of California, Berkeley Topology Seminar	Oct 2014
	University of Illinois at Urbana-Champaign GEAR Seminar	Oct 2014
	Arizona State University Differential Geometry Seminar	Sep 2014
	Michigan State University Geometry Seminar	Apr 2014
	Indiana University, Bloomington Teichmüller Theory Seminar	Sep 2013
CUNY Geometry and Topology Seminar	Apr 2013	
Purdue University Geometry Seminar	Feb 2013	
University of Michigan Topology Seminar	Jan 2013	
SERVICE ACTIVITIES	Co-organizer , RTG Conference, University of Utah	Feb 2020
	Co-organizer , AMS Sectional Meeting Special Session, University of Virginia	Mar 2020
	Panelist , "Funding opportunities for postdoctoral researchers", University of Utah	Sep 2019
	Participant , Diversity Workshop, University of Utah	Sep 2019
	Co-organizer , AIM Workshop "Surfaces of infinite type"	Apr 2019
	Organizer , UCSB Topology Seminar	2018–2019
	Panelist , UCSB Promise Scholar Panel "How to talk to your professors."	Aug 2018
	Panelist , UCSB AWM Panel "Graduate school and beyond."	Apr 2018
	Host , UCSB Faculty Nights, "An uncensored discussion about gender discrimination." <i>Interactive event bringing together students & faculty through the exploration of a hot topic.</i>	Feb 2018
	Speaker , UCSB AWM Research Talk for Undergraduates	Feb 2018

	Speaker , Research talk for REU at UCSB	Jul 2017
	Co-organizer , UCSB AWM and Hypatian Seminar joint events	2016–2017
	Panelist , Women in STEM Mentorship Program, Life in Academia Panel, UCSB	Mar 2017
	Co-organizer , Topology Students Workshop, Georgia Institute of Technology <i>Professional development workshop for graduate students.</i>	Jun 2016
	Teaching Assistant , Institute for Advanced Study Women and Mathematics Program	May 2016
	Co-organizer , Geometry, Groups, and Dynamics Conference, Indianapolis, IN	Mar 2016
	Referee Work , <i>Int. Math. Res. Not., Algebr. Geom. Topol., NYJM</i>	2015–present
	Co-organizer , Purdue University Geometry Seminar	2013–2016
	Speaker , Basic Skills Workshop- Networking, CVs, and webpages, Purdue University	Oct 2015
	Panelist , Basic Skills Workshop - Job Market Panel, Purdue University	Sep 2014
	Mentor , Topology Students Workshop, Georgia Institute of Technology <i>Professional development workshop for graduate students.</i>	Jun 2014
	Founder and organizer , Math Women’s Tea, Rutgers University	2011–2013
	Co-organizer , Rutgers University Women in Math Networking/Mentoring Dinners <i>Funded by Rutgers University NSF ADVANCE grant.</i>	2011–2013
	Grad representative , Graduate Student-Faculty Liaison Committee, Rutgers University	2010–2013
	Teaching consultant , Rutgers University	2012
	Co-organizer , Graduate Student Seminar, Rutgers University	2010–2011
EDUCATIONAL OUTREACH	Workshop Presenter , Science Day at the U, University of Utah	Nov 2019
	Workshop Leader , Defining Your Path, Middle school outreach event at University of Utah	Nov 2019
	Volunteer , Math outreach event at The Wolf Museum of Exploration + Innovation	May 2018
	Speaker , High school outreach, Avenues: The World School, New York, NY	Dec 2017
	Instructional assistant , NJ Partnership for Excellence in Middle School Mathematics <i>Assisted middle school teachers in daily problem solving sessions and led discussions on ways to engage students more effectively.</i>	2012 & 2013
TEACHING EXPERIENCE	University of Utah	
	Instructor, Math 2200 Discrete Mathematics	Fall 2019
	University of California, Santa Barbara	
	Instructor, Math 34A Calculus for the Life and Social Sciences (250 students)	Spring 2019
	Instructor, Math 8 Transition to Higher Mathematics	Winter 2019
	Instructor, Instructor, Math 113 Non-Euclidean Geometry	Fall 2018
	Instructor, Math 34A Calculus for the Life and Social Sciences (275 students)	Spring 2018
	Instructor, Math 34A Calculus for the Life and Social Sciences (300 students)	Winter 2018
	Instructor, Math 113 Non-Euclidean Geometry	Fall 2017
	Instructor, Math 8 Transition to Higher Mathematics and Math 6A Multi-Variable Calculus	Spring 2017
	Instructor, Math 8 Transition to Higher Mathematics	Winter 2017
	Instructor, Math 6A Multi-Variable Calculus	Fall 2016
	Purdue University	
	Instructor, Math 265 Linear Algebra for Engineers	Spring 2016
	Instructor, Math 351 Elementary Linear Algebra	Fall 2015
	Instructor, Math 351 Elementary Linear Algebra	Spring 2015
Instructor, Math 351 Elementary Linear Algebra	Fall 2014	
Instructor, Math 351 Elementary Linear Algebra	Spring 2014	
Instructor, Math 265 Linear Algebra for Engineers	Fall 2013	

Rutgers University

Instructor, Math 103 Topics in Math for the Liberal Arts

Instructor, Math 250 Introductory Linear Algebra

Instructor, Math 135 Calculus I

Fall 2012
Summer 2011
Summer 2010

REFERENCES

Feng Luo fluo@math.rutgers.edu

Alan Reid alan.reid@rice.edu

Ruth Charney charney@brandeis.edu

Darren Long long@math.ucsb.edu

Christopher Leininger clein@math.uiuc.edu

David Ben McReynolds dmcreyno@purdue.edu

Maria Isabel Bueno Cachadina (Teaching reference) mbueno@math.ucsb.edu

MISCELLANEOUS

Citizenship: United States of America