

Stephanie Mui

CONTACT INFORMATION

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RESEARCH INTERESTS

Convex geometry, Geometric analysis

EDUCATION

Courant Institute of Mathematical Sciences, New York University

Ph.D. Candidate, Mathematics (expected May 2022)

- Dissertation Topic: Convex Geometry (Minkowski Problems)
- Advisor: Deane Yang and Gaoyong Zhang

George Mason University

M.S. in Mathematics, May 2017

B.A. in Mathematics, May 2016

- Summa cum laude

PUBLICATIONS

S. Mui, *On the L^p dual Minkowski problem for $-1 < p < 0$* , in preparation (2022).

S. Mui, *On the L^p Aleksandrov problem for negative p* , Adv. Math. **408** (2022).

INVITED TALKS

Title TBD, AMS Southeastern Sectional Meeting: Special Session on High-dimensional Convexity and Probability, Georgia Tech. (March 2023)

On the L^p dual Minkowski problem for $-1 < p < 0$, Harmonic Analysis Methods in Geometric Tomography, ICERM. (September 2022)

On the L^p dual Minkowski problem for $-1 < p < 0$, Canadian Math Society Summer Meeting: Session on Convex geometry and Partial Differential Equations, Memorial University of Newfoundland. (June 2022)

On the L^p Aleksandrov problem for negative p , Workshop in Convexity and High-dimensional probability, Georgia Tech, Short talk. (May 2022)

On the L^p Aleksandrov problem for negative p , Online Asymptotic Geometric Analysis Seminar. (March 2022)

On the L^p Aleksandrov problem for negative p , Convex Geometry and its Applications, Oberwolfach Research Institute for Mathematics (MFO). (December 2021)

On the L^p Aleksandrov problem for negative p , Convex Geometry and its Applications, Oberwolfach Research Institute for Mathematics (MFO). (December 2021)

C^1 Isometric embedding of a flat torus in 3D Euclidean space and Visualization of the Nash-Kuiper Sphere, Geometry Labs United Conference, ICERM, Lightning talk and poster. (July 2020)

Isometric embedding of a flat torus in 3D Euclidean space, Undergraduate Mathematics Symposium, University of Illinois at Chicago. (October 2016)

TEACHING EXPERIENCE	Fall	2022	Teaching Assistant (NYU), Analysis
	Spring	2022	Teaching Assistant (NYU), Honors Analysis I and II
	Fall	2021	Teaching Assistant (NYU), Analysis
	Spring	2021	Teaching Assistant (NYU), Analysis
	Spring	2017	Teaching Assistant (GMU), Calculus I
HONORS AND AWARDS	2021		US Junior Oberwolfach Fellow Oberwolfach Research Institute for Mathematics (MFO)
	2018–2020		Summer Opportunity Fellowship New York University Graduate School of Arts and Sciences
	2017–2022		Henry MacCracken Fellowship New York University Graduate School of Arts and Sciences
	2016		First Place AMS Menger Award
			Intel International Science and Engineering Fair