Stephanie Mui

CONTACT
INFORMATION

Courant Institute of Mathematical Sciences
Department of Mathematics
New York University
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RESEARCH
INTERESTS

Convex geometry, Geometric analysis, Partial differential equations

EDUCATION

Courant Institute of Mathematical Sciences, New York University

Ph.D. Candidate, Mathematics, Sep 2017 - present

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

George Mason University

M.S. in Mathematics, May 2017

- Thesis Topic: Nash-Kuiper Surfaces
- Advisor: Sean Lawton

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)

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