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

- 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)

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