## **Contact Information**

Address: Department of Mathematics

Massachusetts Institute of Technology

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## Education

2012–2017 Ph.D. in Mathematics, New York University, New York, U.S.

Adviser: Erwin Lutwak, Deane Yang, and Gaoyong Zhang

Thesis: Geometric measures, affine invariants,

and their characterizations

2007–2011 B.S. in Mathematics, Shanghai University, Shanghai, China

#### Research Interests

convex geometry, geometric analysis, partial differential equations

# **Employment**

Fall 2018 – C.L.E. Moore Instructor

at Massachusetts Institute of Technology

Fall 2017 - Spring 2018 Assistant Professor (Contract Faculty)

at St. John's University

Summer 2017 Research Associates & Adjunct Assistant Professor

at New York University

# **Publications and Preprints**

- Peer-reviewed:
  - 1. (with C. Chen, and Y. Huang) Smooth solutions to the  $L_p$ -dual Minkowski problem,  $Math.\ Ann.$ , in press.
  - 2. (with Y. Huang) On the  $L_p$  dual Minkowski problem, Adv. Math., 332: 57-84, 2018.
  - 3. Existence of solutions to the even dual Minkowski problem. *J. Differential Geom.*, 110 (3): 543-572, 2018.

- 4. The dual Minkowski problem for negative indices. Calc. Var. Partial Differential Equations, 56 (2):18, 2017.
- 5. On  $L_p$ -affine surface area and curvature measures. Int. Math. Res. Not. IMRN, (5): 1387–1423, 2016.

# • Preprints:

- 1. The  $L_p$  Aleksandrov problem for origin-symmetric polytopes, submitted.
- 2. (with K. Böröczky, E. Lutwak, D. Yang, and G. Zhang) The dual Minkowski problem for symmetric convex bodies, *preprint*.
- 3. (with K. Böröczky, E. Lutwak, D. Yang, and G. Zhang) The Gauss image problem, *submitted*.
- 4. (with D. Xi) Orlicz moment rearrangement inequality, submitted.

## **Invited Talks**

- 2018 Mar. AMS special session at Ohio State University, The Aleksandrov problem and its recent development.
- 2017 Dec. St. Johns University, Minkowski problems and Monge-Ampère type equations.
- 2017 Sept. CUNY Graduate Center, Geometric Analysis Seminar: Minkowskitype problems in convex geometry.
- 2017 Feb. Case Western Reserve University, Analysis & Probability Seminar: On the dual Minkowski problem.
- 2017 Feb. Kent State University, Measure Theory Seminar: The dual Minkowski problem and its solution.
- 2015 Sep. Oaxaca, Mexico (CMO workshop): On  $L_p$ -affine surface area and curvature measures.

# Courses Taught

• at MIT

as Recitation Leader: 18.01A/18.02A Calculus

- at St. John's University
  - as Instructor: Pharmacy Statistics, Business Calculus, Pharmacy Calculus
- at New York University
  - as Instructor: Engineering Calculus II, Calculus III
  - as Recitation Leader: graduate Linear Algebra, undergraduate and graduate

Real Analysis