

Dongmeng Xi

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Education

2012-2015 Shanghai University

Mathematics Ph.D.

Professional Experience

01/2019	Associate Professor, Shanghai University
11/2019-01/2021	Visiting scholar, Courant Institute of Mathematics, New York University
10/2016-12/2018	Postdoctoral Fellow, School of Mathematical Sciences, Fudan University
10/2015-12/2018	Lecturer of Mathematics, Shanghai University
09/2014-09/2015	Exchanging Ph.D. student, Department of Mathematics, Polytechnic School of Engineering, New York University

Research fields

Convex geometry, Geometric Analysis

Publications

1. Yong Huang, **Dongmeng Xi**, Yiming Zhao. The Minkowski Problem in the Gaussian probability space. **Adv. Math.** Volume 385, 16 July 2021, 107769.
2. **Dongmeng Xi***, Yiming Zhao. General affine invariances related to Mahler volume. **Int. Math. Res. Not.** Published online, 2021.
3. Youjiang Lin and **Dongmeng Xi***. Orlicz affine isoperimetric inequalities for star bodies. **Adv. App. Math.** (2022) 134: 10230.
4. Yuchi Wu, **Dongmeng Xi***, Gangsong Leng. On the discrete Orlicz Minkowski problem. **Trans. Amer. Math. Soc.** 371 (2019) 1795-1814.
5. Ai-Jun Li, **Dongmeng Xi***, and Gaoyong Zhang, Volume inequalities of convex bodies from cosine transforms on Grassmann manifolds. **Adv. Math.** 304 (2017), 494-538.
6. **Dongmeng Xi*** and Gangsong Leng. Dar's conjecture and the log-Brunn-Minkowski inequality, **J. Differential Geom.** 103 (2016) 145-189.
7. **Dongmeng Xi***, Hailin Jin, and Gangsong Leng. The Orlicz Brunn-Minkowski inequality, **Adv. Math.** 260 (2014) 350-374.
8. **Dongmeng Xi***, Lujun Guo, and Gangsong Leng. Affine inequalities for L_p mean zonoids,

Bull. London Math. Soc. 46 (2014) 367-378.

9. Youjiang Lin and **Dongmeng Xi***. Affine Orlicz Pólya–Szegő Principles and Their Equality Cases. **Int. Math. Res. Not.** 2021, no. 9, 7159–7204.
10. Ai-Jun Li, Dongmeng Xi, Qingzhong Huang. A Grassmannian Loomis-Whitney inequality and its dual. **J. Lond. Math. Soc.** (2) 101 (2020), no. 3, 1219-1249.
11. Yuchi Wu, Dongmeng Xi, Gangsong Leng. On the discrete Orlicz Minkowski problem II. **Geom. Dedicata** 205 (2020) 177-190.
12. Ai-Jun Li, Qingzhong Huang, Dongmeng Xi. New sine ellipsoids and related volume inequalities. **Adv. Math.** 353 (2019), 281-311.
13. Ai-Jun Li, Qingzhong Huang, Dongmeng Xi. Sections and projections of L_p -zonoids and their polars. **J. Geom. Anal.** 28 (2018), no. 1, 427-447
14. Ai-Jun Li, Qingzhong Huang, Dongmeng Xi. Volume inequalities for sections and projections of Wulff shapes and their polars. **Adv. in Appl. Math.** 91 (2017), 76-97.