

Curriculum Vitae

Qingzhong Huang

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Education

- 09/2011-06/2014: Ph.D. in Mathematics, Shanghai University, China.
- 09/2008-06/2011: MA. in Mathematics, Shanghai University, China.
- 09/2004-06/2008: BS. in Mathematics, Lishui University, China.

Employment

- 07/2014-present: Lecturer, Jiaxing University, China.
- 09/2018-09/2020: AARMS Postdoctoral Fellow, Memorial University of Newfoundland, Canada.

Research Interest

- Convex geometry, geometric analysis, and geometric functional analysis
- Functional and geometric inequalities

Selected Publications

1. A.-J. Li, D. Xi and Q. Huang, *A Grassmannian Loomis-Whitney inequality and its dual*, **J. Lond. Math. Soc.** 101 (2020), 1219-1249.
2. Q. Huang and A.-J. Li, *The L_p Gagliardo-Nirenberg-Zhang inequality*, **Adv. in Appl. Math.** 113 (2020), 101971, 21 pp.
3. A.-J. Li, Q. Huang and D. Xi, *New sine ellipsoids and related volume inequalities*, **Adv. Math.** 353 (2019), 281-311.
4. Y.-R. Feng, Q. Huang, and A.-J. Li, *On the reverse dual Loomis-Whitney inequality*, **Results in Mathematics** 74 (2019), 74:106.
5. Q. Huang and A. Li, *Moment-entropy inequality for isotropic measures*, **Monatshefte für Mathematik** 187 (2018), 95-107.
6. Q. Huang and A. Li, *A characterization of minimal Orlicz-Sobolev norms in the affine class*, **Journal of Mathematical Analysis and Applications**, 460 (2018), 703-713.
7. A. Li, Q. Huang and D. Xi, *Sections and projections of L_p -zonoids and their polars*, **The Journal of Geometric Analysis**, 28 (2018), 427-447.
8. A. Li, Q. Huang and D. Xi, *Volume inequalities for sections and projections of Wulff shapes and their polars*, **Advances in Applied Mathematics**, 91 (2017), 76-97.
9. Q. Huang and A. Li, *On the Loomis-Whitney Inequality for Isotropic Measures*, **International Mathematics Research Notices**, 2017 (2017), 1641-1652.

10. Q. Huang and A. Li, *The functional version of the Ball inequality*, **Proceedings of the American Mathematical Society**, 145 (2017), 3531-3541.
11. A. Li and Q. Huang, *The dual Loomis-Whitney inequality*, **Bulletin of the London Mathematical Society**, 48 (2016), 676-690.
12. A. Li and Q. Huang, *The L_p Loomis-Whitney inequality*, **Advances in Applied Mathematics**, 75 (2016), 94-115.
13. Q. Huang and A. Li, *Optimal Sobolev norms in the affine class*, **Journal of Mathematical Analysis and Applications**, 436 (2016), 568-585.
14. Q. Huang and B. He, *Volume inequalities for complex isotropic measures*, **Geometriae Dedicata**, 177 (2015), 401-428.
15. Q. Huang and B. He, *An asymmetric Orlicz centroid inequality for probability measures*, **Science China Mathematics**, 57 (2014), 1193-1202.
16. Q. Huang and B. He, *Gaussian inequalities for Wulff shapes*, **Geometriae Dedicata**, 169 (2014), 33-47.
17. Q. Huang, B. He and G. Wang, *The Busemann theorem for complex p -convex bodies*, **Archiv der Mathematik**, 99 (2012), 289-299.
18. G. Wang, G. Leng and Q. Huang, *Volume inequalities for Orlicz zonotopes*, **Journal of Mathematical Analysis and Applications**, 391 (2012), 183-189.
19. Q. Huang and B. He, *On the Orlicz Minkowski Problem for Polytopes*, **Discrete & Computational Geometry**, 48 (2012), 281-297.

Papers Submitted or In Preparation

1. Q. Huang, A. Li, D. Xi and D. Ye, *Blaschke-Santaló and Moment-entropy inequalities for the L_p sine transform*, submitted.
2. W. Ai and Q. Huang, *The L_p John ellipsoids for general measures*, submitted.
3. Q. Gu and Q. Huang, *An anisotropic version of the Brezis-Schaftingen-Yung formula*, submitted.
4. Q. Huang, S. Xing, D. Ye and B. Zhu, *On the Musielak-Orlicz Gauss image problem*, in preparation.

Research Grants

- National Natural Science Foundation of China (No.11701219), PI, 1/2018-12/2020
- National Natural Science Foundation of China (No.11626115), PI, 1/2016-12/2017
- National Natural Science Foundation of China (No.11371239), CO-PI, 1/2014-12/2017
- National Natural Science Foundation of China (No.11071156), CO-PI, 1/2011-12/2013

Awards and Honors

- 08/2020: Outstanding youth in Zhejiang universities (5246 project).
- 12/2012: National scholarship for graduate students, China.
- 08/2008: Outstanding graduates in Zhejiang Province, China.

Teaching at Jiaxing University, China

- Spring 2018: Linear Algebra A
- Fall 2017: Analytic Geometry of Space; Probability and Statistics
- Spring 2017: Linear Algebra B
- Fall 2016: Analytic Geometry of Space; Advanced Engineering Mathematics
- Spring 2016: Advanced Mathematics A2; Advanced Mathematics B2
- Fall 2015: Analytic Geometry of Space; Advanced Mathematics B1
- Spring 2015: Advanced Mathematics A2
- Fall 2014: Advanced Mathematics A1

Teaching at Memorial University of Newfoundland, Canada

- Fall 2019: Mathematics 1000: Calculus I

Review Service

- AMS Mathematical Reviews (27 times)

Talks

- 10/2020, *New sine ellipsoids and related volume inequalities*, Seminar talk, Tongji University, Shanghai, China
- 10/2020, *New sine ellipsoids and related volume inequalities*, Graduate Seminar in Mathematics, Memorial University of Newfoundland, St. John's, Canada
- 06/2019, *The L_p John ellipsoid for Sobolev functions*, 2019 CMS Summer Meeting, University of Regina, Regina, Canada
- 10/2018, *The Minkowski problem and its functional counterpart*, Graduate Seminar in Mathematics, Memorial University of Newfoundland, St. John's, Canada
- 05/2018, *On the Loomis-Whitney inequality for isotropic measures*, Recent Advances in Convex Geometry and Geometric Functional Analysis, Tsinghua Sanya International Mathematic Forum, Sanya, China
- 11/2016, *On the Loomis-Whitney inequality for isotropic measures*, Seminar talk, Shanghai University, Shanghai, China
- 07/2016, *On the Loomis-Whitney inequality for isotropic measures*, Symposium on Convex Geometry and Discrete Geometry, Beijing Forestry University, Beijing, China

Conferences and Workshops

- 06/2019, *2019 CMS Summer Meeting*, University of Regina, Regina, Canada
- 05/2018, *Recent Advances in Convex Geometry and Geometric Functional Analysis*, Tsinghua Sanya International Mathematic Forum, Sanya, China
- 05/2018, *2018 Hubei University for Nationalities workshop on Geometry*, Hubei University for Nationalities, Enshi, China

- 07/2017, *The 6th International Conference on Analytic Mathematics and its Applications*, Xinjiang University, Urumqi, China
- 06/2017, *Workshop on Convex Geometry and Geometric Analysis*, Tongji University, Shanghai, China
- 07/2016, *Sympopsium on Convex Geometry and Discrete Geometry*, Beijing Forestry University, Beijing, China
- 12/2011, *International Symposium on Convex Geometry and Integral Geometry*, Chern Institute of Mathematics, Nankai University, Tianjin, China
- 12/2008, *Joint Meeting of AMS and Shanghai Mathematical Society*, Fudan University, Shanghai, China