

# Jinrong Hu

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🌐 <http://hujinrong97.github.io/>

## Education Experience

- Sep. 2019 – Present     📖 **P.h.D., Hunan University, China**  
Major: *Pure Mathematics*.
- Sep. 2015 – June. 2019     📖 **Bachelor, Chongqing Jiaotong University, China**  
Major: *Mathematics and Applied Mathematics*.

## Research Interest

My research is in the field of convex geometric analysis, partial differential equations and geometric flow.

## Past Activities

- 2019     📖 **Academic Conference on Nonlinear Partial Differential Equations and Geometric Analysis**, Hunan University, China.
- 2021     📖 **Symposium on the Frontiers of Geometric Analysis and Partial Differential Equations**, Shaanxi Normal University, China.
- 2022     📖 **The 20th Academic Conference on Nonlinear Partial Differential Equations**, Hunan University, China.

## Publications and Preprints

### Publications ([MathSciNet Webpage](#))

- 2021     📖 **Hu Jinrong**; Liu Jiaqian. On the  $L_p$  torsional Minkowski problem for  $0 < p < 1$ . [Adv. in Appl. Math.](#) 128 (2021), Paper No. 102188, 22 pp.
- 2022     📖 **Hu Jinrong**; Liu Jiaqian; Ma Di. A Gauss curvature flow to the Orlicz-Minkowski problem for torsional rigidity. [J. Geom. Anal.](#) 32 (2022), no. 2, Paper No. 63, 28 pp.
- 2023     📖 **Hu Jinrong**; Liu Jiaqian; Ma Di. A flow method to the Orlicz-Aleksandrov problem. [J. Funct. Anal.](#) 284 (2023), no. 6, Paper No. 109825, 24 pp.
- 📖 **Hu Jinrong**; Zhang Ping. The functional Orlicz-Brunn-Minkowski inequality for  $q$ -torsional rigidity, [Mathematika](#) (2023), no. 4, 934-956.

### Preprints

- 📖 **Hu Jinrong**; Liu Jiaqian; Ma Di; Wang, Jing. A class of generalized fully nonlinear curvature flows and its application, [arXiv:2206.01963](#).
- 📖 **Hu Jinrong**; Mao Qiongfang. Some remarks on a class of logarithmic curvature flow, [arXiv:2302.10537](#).
- 📖 **Hu Jinrong**; Mao Qiongfang; Wang Sinan. On the continuity of the solutions to the  $L_p$  torsional Minkowski problem, [arXiv:2303.11038](#).
- 📖 **Hu Jinrong**; Huang Yong; Lu Jian. On the regularity of the chord log-Minkowski problem, [arXiv:2304.14220](#).
- 📖 **Hu Jinrong**; Huang Yong; Lu Jian; Wang Sinan. The chord Gauss curvature flow and its  $L_p$  chord Minkowski problem, [arXiv:2305.00453](#).

## Publications and Preprints (continued)

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- Fang Niufa; **Hu Jinrong**; Zhao Leina. From the Brunn-Minkowski inequality to a class of generalized Poincaré-type inequality for torsional rigidity, [arXiv:2307.12738](https://arxiv.org/abs/2307.12738).

## Teaching

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- TA for Mathematical Analysis, HNU, Fall 2020
- TA for Advanced Mathematics, HNU, Spring 2021, Spring 2022, Spring 2023
- TA for Advanced Mathematics, HNU, Spring 2021, Spring 2022, Spring 2023

## Miscellaneous Experience

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### Awards and Achievements

- Aug. 2019    ■ **Third prize**, The 17th 'Summer School on Nonlinear Partial Differential Equations', Jilin University, China
- Aug. 2020    ■ **First prize**, The 18th 'Summer School on Nonlinear Partial Differential Equations', Harbin Engineering University, China