

HONGDA QIU
Department of Mathematics
The Pennsylvania State University, University Park
State College, PA 16801
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EDUCATION

B.S. in Mathematics and Applied Mathematics, Zhejiang University	Sept 2014-Jun 2018
Thesis Advisor: Chao Xu	
M.S. in Applied Mathematics and Statistics, Johns Hopkins University	Sept 2019-Feb 2021
Ph.D. in Mathematics, The Pennsylvania State University	Aug 2021-Current
Thesis Advisor I: Dmitri Burago	
Thesis Advisor II: Anton Petrunin (co-advising)	

RESEARCHING PAPERS

A counterexample for the curvature bounded sphere problem in \mathbb{R}^3 , *Submitted, 2025*
On equivariant isometric embeddings of Riemannian manifolds with symmetries. <https://arxiv.org/abs/2511.09931>, *Submitted, 2025*
With Dmitri Burago. On the geometry of Riemannian isometric embeddings. <https://arxiv.org/abs/2507.23164>, *Submitted, 2025*
On the curvature bounded sphere problem in \mathbb{R}^3 . <https://arxiv.org/abs/2507.06245>, *Submitted 2025*
With Dmitri Burago. Dong Chen and Jinpeng Lu, On some unsolved problems of geometric origin. *Preprint, 2024*

TEACHING

Graduate Teaching Assistant	Feb 2022-Current
<i>(Undergraduate Course Instructor, Department of Mathematics, the Pennsylvania State University, University Park)</i>	
Math 230 Calculus III, Spring 2022	
Math 21 College Algebra I, Fall 2022	
Math 35 General Views on Mathematics (non-coordinated), Fall 2023	
Math 22 College Algebra II, Fall 2025	

TALKS

(On plan) Equivariant isometric embeddings of Riemannian manifolds, Geometry Lunch Seminar, PSU	Spring 2026
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OTHER ACADEMIC ACTIVITIES

- Co-organizing Geometry Lunch Seminar at PSU with Dmitri Burago and Anton Petrunin Aug 2025-Current
- Co-organized and gave lectures for the qual study group for incoming graduate students in Complex Analysis Fall 2023

AWARDS & HONORS

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| • Academic Scholarship (Zhejiang University) | 2017 |
| • Vollmer-Kleckner Scholarship in Science (The Pennsylvania State University) | 2021 |