

# Yujie Luo

---

## CONTACT INFORMATION

Johns Hopkins University  
Department of Mathematics  
3400 North Charles Street  
Baltimore, Maryland 21218, USA  
Email: [y1uo32@jhu.edu](mailto:y1uo32@jhu.edu)  
Personal webpage: <https://scheme96.github.io/>

## EDUCATION

### Johns Hopkins University

Ph.D. Candidate, Mathematics, August 2018-now.

- Advisor: Professor Chenyang Xu, Co-Advisor: Professor Jingjun Han.

### University of Science and Technology of China (USTC)

B. Sc. in Mathematics, August 2014-June 2018.

- Undergrad Thesis: Dirichlet's Problem for the Complex Monge-Ampère Operator.
- Advisor: Professor Xiangyu Zhou.

## RESEARCH INTERESTS

Topics related to Birational Geometry and Differential Geometry.

## PUBLICATIONS & PREPRINTS

- ❑ *ACC for minimal log discrepancies of terminal threefolds* (joint with Jingjun Han and Jihao Liu). Preprint, submitted. [[arxiv](#)]
- ❑ *Second largest accumulation point of minimal log discrepancies in dimension 3* (joint with Jihao Liu). Preprint, submitted. [[arxiv](#)]
- ❑ *On boundedness of divisors computing minimal log discrepancies for surfaces* (joint with Jingjun Han). *J. Inst. Math. Jussieu*, 1-24. [[arxiv](#)]
- ❑ *Shokurov's conjecture on conic bundles with canonical singularities* (joint with Jingjun Han and Chen Jiang). *Forum of Math. Sigma*, 10, E38. [[arxiv](#)]
- ❑ *A simple proof of ACC for MLD's for surfaces* (joint with Jingjun Han). Accepted by Acta Math. Sin. (Engl. Ser.)

## TALKS

- *Shokurov's conjecture on conic bundles with canonical singularities*, [Algebraic Geometry seminar at Johns Hopkins University](#), October 11, 2022.
- *ACC conjecture for minimal log discrepancies and its applications in birational geometry*, [Algebraic Geometry seminar at Northwestern University](#), October 5, 2022.
- *Second largest accumulation point of minimal log discrepancies of threefolds*, Short talks in [MPS Conference on Higher Dimensional Geometry](#), August 22-26, 2022.
- *Shokurov's conjecture on conic bundles with canonical singularities*, [USTC NTAG 1-st](#), April 13, 2021.
- *Shokurov's conjecture on conic bundles with canonical singularities*, [Morningside Center of Mathematics](#), January 13, 2021.
- *On boundedness of divisors computing minimal log discrepancies for surfaces*, Short talks in [Simons conference-Rationality](#), July 30, 2020.
- *On boundedness of divisors computing minimal log discrepancies for surfaces*, Algebraic Geometry Seminar (Online), The University of Tokyo, July 26, 2020.

## LECTURES

- *Four lectures on the resolution of singularities*, [Reading Workshop: Boundedness and Resolution at SCMS Fudan, 2021 summer](#).

**VISITINGS****Graduate**

January 2022-Present      Department of Mathematics at Princeton University  
 July 2021-August 2021      SCMS at Fudan University  
 October 2020-July 2021      BICMR at Peking University

**Undergraduate**

October 2017-May 2018      Chinese Academy of Sciences  
 July 2017-October 2017      University of California, Los Angeles

**HONORS AND AWARDS****University of Science and Technology of China**

2018      Outstanding Undergraduates  
 2015,2016,2017      China National Scholarship (three times)  
 2017      Prize of Hua Loo-Keng Talent Program in Mathematics

**TEACHING EXPERIENCE****Johns Hopkins University**

2021 Fall      Teaching assistant, Linear Algebra  
                          Grader, Complex Analysis (Honor)  
 2021 Spring      Teaching assistant, Linear Algebra  
 2020 Fall      Teaching assistant, Linear Algebra  
                          Grader, Complex Analysis (Honor)  
 2020 Spring      Teaching assistant, Calculus II (For Physical Sciences and Engineering)  
                          Grader, Riemannian Surface  
 2019 Fall      Teaching assistant, Linear Algebra  
                          Grader, Riemann Geometry  
 2018 Fall      Grader, Complex Analysis (Honor)

**University of Science and Technology of China**

2017 Fall      Teaching assistant, Functional Analysis