# Minghao Miao

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### Research Interests

Complex Geometry, Kähler Geometry: Currently, I am applying algebraic K-stability theory to questions about Kähler-Ricci Flow and Kähler-Ricci soliton on Fano variety.

### Education

Nanjing University

M.A. Candidate in Mathematics, Department of Mathematics

September 2021 – Present

Nanjing, Jiangsu, China

Thesis Advisor: Professor Gang Tian

Nanjing University

B.S. in Mathematics, Kuang Yaming Honors School

September 2017 – July 2021

Nanjing, Jiangsu, China

### Experience

Beijing International Center for Mathematical Research (BICMR) September, 2021 – Present Visitor Beijing, China

Duke UniversityAugust, 2019 - December, 2019Visiting International Student ProgramDurham, NC, USA

## Publications and Preprints

### Optimal Degenerations of K-unstable Fano threefolds

Joint work with Linsheng Wang, arXiv:2401.13999

Kähler-Ricci solitons on Fano threefolds with non-trivial moduli

Joint work with Linsheng Wang, arXiv:2309.14212

A Note On Kähler-Ricci Flow on Fano Threefolds

Joint work with Gang Tian, arXiv:2210.15263, accepted by Peking Math. J.

#### Research Presentations

Optimal Degenerations of K-unstable Fano Threefolds, Complex Analysis and Geometry Seminar, Rutgers University, 02/2024.

Kähler-Ricci soliton and weighted Abban-Zhuang Estimate, Geometric Analysis Seminar, Westlake University, 12/2023.

Kähler-Ricci soliton and weighted Abban-Zhuang Estimate, Recent Progress on Analytic Minimal Model Program, Tianyuan Mathematics Research Center, 10/2023.

Kähler-Ricci Flow on Fano Threefolds, National Workshop on Geometric Analysis, Xinjiang Normal University, 06/2023.

Kähler-Ricci Flow on Fano Threefolds, Geometric Analysis Seminar, Westlake University, 12/2022.

Kähler-Einstein metric on Fano manifold, Students Geometry and Analysis Seminar Talk, University of Toronto, 09/2022.