

# Zheng Xu

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## Statement

I am a Ph.D. student of Academy of Mathematics and Systems Science, Chinese Academy of Sciences (CAS). My major is fundamental mathematics and I study algebraic geometry under the supervision of Professor Wenhao Ou. My interests include birational geometry and Hodge theory, especially in positive and mixed characteristics.

## Education

Ph.D., fundamental mathematics, Chinese Academy of Sciences (CAS), 2021 to 2024 (expc.)  
M.S., fundamental mathematics, Chinese Academy of Sciences (CAS), 2021  
B.S., mathematics and applied mathematics, Hunan University of Science and Technology, 2018

## Visiting position

Visiting Student Research Collaborator, Princeton University, February 2024 to April 2024.

## Papers

1. Xu Z. Abundance for threefolds in positive characteristic when  $\nu = 2$ [J]. arXiv preprint arXiv:2307.03938, 2023.
2. Xu Z. Note on the 3-dimensional lc abundance in characteristic  $> 3$ [J]. arXiv preprint arXiv:2212.04039, 2022. To appear in Nagoya Mathematical Journal.

## Invited Talk

Algebraic Geometry Seminar, Princeton University, Dept. of Mathematics, March 2024  
Young Perspectives on Algebraic Geometry, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, December 2023  
Southeast Algebraic Geometry Symposium, Southern University of Science and Technology, Dept. of Mathematics, April 2023  
Beijing Guangzhou Algebraic Geometry Symposium, Online, January 2023

## Language

Native Chinese (Mandarin)  
Fluent English

**March 6, 2024**