

# Xiaoxiang Zhou

## *Curriculum Vitae*

🏠 Büchnerweg 89, A235, Berlin, Germany  
☎ (+49) 174 400 6927  
✉ xiaoxiang.zhou@hu-berlin.de  
💻 <https://ramified.github.io/>

## PERSONAL

---

NATIONALITY China  
09/03/1999 Born in Ningde, Fujian, China

## AREAS OF INTEREST

---

My research lies at the interface of algebraic geometry and geometric representation theory. My present focus is on subvarieties of abelian varieties, monodromy groups, and perverse sheaves. During my master's studies, I investigated quiver flag varieties, focusing on their  $K$ -theory and the affine paving property.

## EDUCATION

---

2023 – NOW **Ph.D.**  
INSTRUCTOR: PROF. DR. THOMAS KRÄMER  
Department of Mathematics  
*Humboldt-Universität zu Berlin, Berlin, Germany*

2020 – 2023 **Master of Sciences**  
Department of Mathematics  
*Bonn University, Bonn, Germany*

2016 – 2020 **Bachelor of Sciences**  
HUA LOO-KENG TALENT PROGRAM (FROM 2017)  
School of the Gifted Young  
*University of Science and Technology of China, Hefei, Anhui, China*

2018 FALL **Exchange Program (BICMR)**  
ENHANCED PROGRAM FOR GRADUATE STUDY

2014 – 2016 **Senior High School**  
*the Affiliated High School of Fujian Normal University, Fuzhou, Fujian, China*

## PUBLICATIONS & THESIS

---

2025 **Published:** Affine pavings of quiver flag varieties  
Journal of Pure and Applied Algebra, Volume 229, Issue 6, 2025

2023 **Master Thesis:** Geometry of Quiver Flag Varieties  
Instructors: Prof. Stroppel, Dr. Eberhardt

2020 **Bachelor Thesis:** Modular form and Equations of degree 5  
Instructor: A.P. Jinxiang Xu

2019 **Research Project:** Mordell Theorem  
Instructor: Prof. Wen-wei Li

## TEACHING ASSISTENT WORK

---

2022-2023 **Mathematik für Physiker III**  
Instructor: Dr. Illia Karabash