

XINGYING LI

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EDUCATION

Southern University of Science and Technology, Mathematics, *Doctor of Philosophy* 2021.09 - 2025.12

Dissertation: *Morrison–Kawamata Dream Spaces*, Advisor: Zhan Li

Southern University of Science and Technology, Mathematics, *Master of Science* 2019.09 - 2021.06

Thesis: *Cone Theorem for Foliations*, Advisor: Zhan Li

Xiangtan University, Information and Computing Science, *Bachelor of Science* 2015.09 - 2019.06

Thesis: *Hodge Decomposition on Low-dimensional Domains and Manifolds*, Advisor: Dawen Deng

RESEARCH

My current research interests are in machine learning, particularly large language models and diffusion models. Previously, my research focused on algebraic geometry, especially the Minimal Model Program.

- On the Morrison-Kawamata dream space and its applications
- On the finiteness of canonical models for all klt pairs

WORK EXPERIENCE

Zhejiang Lab, Intern 2025.12 - 2026.04

- Contributed to a large language model agent framework for automated hypothesis generation and validation in population cohort studies, with applications to Parkinson's disease risk prediction.

Chuangyuan Futures Research Institute, Intern 2025.10

- Participated in foreign exchange market research, wrote research reports, and presented the results.

PROJECTS AND TEACHING

Southern University of Science and Technology, Teaching Assistant

- Teaching Assistant for Algebraic Geometry Spring 2024
- Recitation Instructor for Calculus Fall 2021, Fall 2022
- Recitation Instructor for Linear Algebra Fall 2019

Xiangtan University, Mathematics Peer Tutor, School of Business 2017.09 - 2018.06

- Tutored students in the Shaofeng Class majoring in economics in mathematics courses, including Mathematical Analysis and Linear Algebra, with weekly classes and regular examinations.

Xiangtan University, Innovation and Entrepreneurship Education Center for Intelligent Perception and Advanced Computing (Lab Member) Fall 2017

- Participated in research on the KCF algorithm (Kernelized Correlation Filters) for object tracking in the laboratory.

HONORS AND AWARDS

First Prize, Xiangtan University Physics Competition 2017.05

Third Prize, Mathematical Contest in Modeling 2017.05

Xiangjiang Scholarship 2017.01

National Encouragement Scholarship 2016.12

First Prize, The 8th Chinese Mathematics Competitions for College Students (Mathematics Major) 2016.11

SKILLS

C, Git, \LaTeX , MATLAB, Python