

Qiuye Jia – Résumé

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Personal Profile

I am presently a PhD student at ICME, Stanford University. I studied Algebraic Geometry and Complex Geometry in the department of Mathematics at Tsinghua University. The experience in pure math equipped me with firm foundation of algebra, geometry and analysis, enabling me to treat applied problems in computation and optimization with more advanced tools.

Research Interests

Computational Mathematics, Machine Learning, Deep Learning, Quantum Resistant Algorithm, Algebraic Geometry, Complex Geometry

Education

2014-2018 B.S. in Mathematics - Tsinghua University, Beijing
GPA: 91.12/100 (Overall); 94.49/100 (Mathematics)

2018-Present PhD in Computational and Mathematical Engineering - Stanford University, California

RESEARCH EXPERIENCE

Study on Mathematical Physics September 2016 - September 2018
Supervised by Professor Si Li at Tsinghua University

- Carefully studied the book *Complex Manifolds and Deformation of Complex Structures* by Kunihiko Kodaira
- Read the book *Calabi-Yau Manifolds and Related Geometries* by Mark Gross, Daniel Huybrechts and Dominic Joyce
- Developed knowledge in Quantum Field Theory

Seminar on Geometric Analysis September 2016 - January 2017
Supervised by Professor Yuxiang Li at Tsinghua University

- Studied and applied the Bochner Technique
- Learned important results related to Hodge Conjecture
- Conducted research on minimal surface, especially its convergence

Study on Information Geometry August 2017 - Present
Supervised by Professor Jun Zhang, University of Michigan, Ann Arbor

- Read papers in Information Geometry
- Studied the book *The Geometry of Hessian Structures* by Hirohiko Shima

- Focused on the geometric structure of Hessian Manifolds .

Study on Calabi-Yau Manifolds

August 2017 - Present

Supervised by Professor Hai Lin , Tsinghua University

- Read papers in Calabi-Yau Manifolds
- Studied books: Calabi Yau Manifolds, A Bestiary for Physicists; Calabi-Yau Manifolds and Related Geometry; etc.
- Research on cohomology of Generalized Calabi-Yau Complete Intersections.

EVENTS ATTENDED

Exchange Study at University of Oxford	July 2015
Forum for Distinguished Students of Science(As 2 Times Speaker)	October 2017
Forum for Distinguished Students of Science	July 2018

HONORS

Gold Medal, Chinese Mathematical Olympiad	2013
Team Silver Medal, S.T. Yau College Student Mathematics Contests	2016
Team Silver Medal, S.T. Yau College Student Mathematics Contests	2017
Gold Medal (1st Place), S.T. Yau College Student Mathematics Contests, Computational and Applied Mathematics	2017

SCHOLAR-SHIPS

Freshmen Scholarship	2014
Xuetang Program Scholarship	2014-2018
Qualcomm Scholarship	2017
Cheng Geru Scholarship	2016

Skills

■ Programming Languages

Python
TeX
C++/C
Julia
Mathematica