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Research fields

Algebraic Geometry, Birational Geometry

Education

2014-2018 BSc (Honours) - [Zhejiang University](#), Hangzhou
[School of Mathematical Sciences](#), and [Chu Kochen Honors College](#)

2018-2023 PhD candidate - [National University of Singapore](#), Singapore
[Department of Mathematics](#)

2022-2023 Student Researcher - [National University of Singapore](#), Singapore
[Department of Mathematics](#)

Honours & Awards

Oct 2022 PhD Conference Award, [Faculty of Science](#), National University of Singapore,

2018-2022 President's Graduate Scholarship, National University of Singapore

Nov 2017 National Scholarship, Ministry of Education of the People's Republic of China

2017 First-class Scholarship for Outstanding Merits, Zhejiang University

2016-2017 First-class Scholarship for Elite Students in Basic Science, Zhejiang University

Publications

Accepted articles

1. Automorphisms groups of compact complex surfaces: T-Jordan property, Tits alternative and solvability, Journal of Geometric Analysis (to appear) [arXiv:2208.07336](#)
2. Surjective endomorphisms of projective surfaces: the existence of infinitely many dense orbits, Mathematische Zeitschrift **303**, Article number: 39 (2023) (with J. Xie and D.-Q. Zhang) [link](#)
3. Endomorphisms of quasi-projective varieties – towards Zariski dense orbit and Kawaguchi-Silverman conjectures, Mathematical Research Letters (to appear) (with T. Shibata, J. Xie and D.-Q. Zhang) [arXiv:2104.05339](#)
4. Amplified endomorphisms of Fano fourfolds, manuscripta mathematica (2022) (with G. Zhong) [link](#)
5. Potential density of projective varieties having an int-amplified endomorphism, New York J. Math. **28** (2022) 433-444. (with T. Shibata and D.-Q. Zhang) [pdf](#)

Preprints

1. Smooth projective surfaces with pseudo-effective tangent bundles (with Y. Lee and G. Zhong) [arXiv:2302.10077](#)
2. Wild automorphisms of compact complex spaces of lower dimensions (with L. Wang) [arXiv:2211.12245](#)
3. Moishezon manifolds with no nef and big classes (with S. Meng) [arXiv:2208.12013](#)
4. Equivariant Kähler model for Fujiki's class (with S. Meng) [arXiv:2108.11595](#)

Seminar Talks

- Surjective Endomorphisms of Projective Surfaces, Algebraic Dynamics Seminar, Korea Institute for Advanced Study, 15 July 2020
- Surjective Endomorphisms of Projective Surfaces, Topology & Geometry Seminar, National University of Singapore, 21 Oct. 2020
- Surjective Endomorphisms of Affine and Projective Surfaces, Seminar of Algebraic Geometry in East Asia, 3 Sept. 2021
- Potential density of projective varieties, Topology & Geometry Seminar, National University of Singapore, 12 Jan. 2022
- Automorphisms Groups of Compact Complex Surfaces, Workshop: Recent Development in Algebraic Geometry, National University of Singapore, 30 August 2022

Conference

Co-organized with others

- [Recent Development in Algebraic Geometry](#), Jointly organised by Jia Jia, Wing-Keung To and De-Qi Zhang, Tuesday 30 Aug 2022

Attended

- [Conference on Complex Analysis, Complex Geometry and Dynamics](#) (in memory of Nessim Sibony), Laboratoire de Mathématiques d'Orsay, Université Paris-Saclay, France, 5 Dec 2022 – 9 Dec 2022,

Teaching Experience

- Fall 2019, Basic Applied Mathematics for Sciences (Tutor)
- Spring 2020, Multivariable Calculus (Tutor)
- Fall 2020, Basic Discrete Mathematics (Tutor)

Skills

Languages

Chinese - mother tone
English - fluent

Programming

Lua
Python
Swift/SwiftUI

Software

git - source version control
Neovim
T_EX

References

[Caucher Birkar](#) (Mentor at YMSC)
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Yau Mathematical Sciences Center
Tsinghua University (China)
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[Tien-Cuong Dinh](#)
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[Keiji Ogiso](#)
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University of Tokyo (Japan)
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[De-Qi Zhang](#) (supervisor)
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