

EDUCATION

• Imperial College London

London, UK

*Master of Science in Pure Mathematics.**Oct. 2021 – Oct. 2022*

- **MSc Thesis:** Topic: Toric Varieties, Supervisor: Dr. Jonathan Lai.
- **Courses:** *Algebraic Curves (A), Manifolds (A+), Commutative Algebra (A+), Group Representation Theory (A+), Algebraic Geometry (A+), Complex Manifolds (A), Differential Topology (A+) and Riemannian Geometry (A+).*

• The Chinese University of Hong Kong, Shenzhen

Shenzhen, China

Bachelor of Science in Mathematics and Applied Mathematics: Pure Mathematics stream. Aug. 2017 – July. 2021

- **Degree:** BSc with Honours, **First Class**
- **Grade:** Cumulative GPA 3.495/4.000, major GPA 3.794/4.000.
- **Selected Courses:** *Differential Geometry, Introduction to Geometry and Topology, Advanced Linear Algebra, Abstract Algebra, Complex Variables, Real Analysis, Partial Differential Equations, Probability Theory, Functional Analysis.*
- **Awards:** AY2019-20/2020-21 Dean's List Award of School of Science and Engineering.

• University of California, Berkeley

Berkeley, CA, US

*Summer Session Visiting Student**Jun. 2018 – Aug. 2018*

- **Courses:** *Abstract Algebra and Research & Data Analysis*

ACADEMIC ACTIVITIES

• MSc Project

*Toric Varieties**Nov. 2021 – Oct. 2022*

- Writing a thesis on toric varieties under the supervision of Dr. Lai.

• Study Group

*Birational Geometry**Oct. 2022 – Dec. 2022*

- Attending a weekly reading group supervised by Prof. Paolo Cascini at Imperial College London. We are reading the paper *Anti-pluricanonical systems on Fano varieties* by Prof. Caucher Birkar.

*Algebraic Topology**Aug. 2021 – Sept. 2021*

- Co-organized a weekly reading group with 2 graduates at CUHK(SZ).
- **Topics:** *Singular homology (Jan. 2021), Bott periodicity of spheres and higher homotopy groups.*

*Representation Theory**May. 2020 – Jan. 2021*

- Co-organized a weekly reading group supervised by Prof. Daniel Wong at CUHK(SZ).
- **Topics:** *Lie algebras and matrix Lie groups, Classification of semisimple Lie algebras and representations of semisimple Lie algebras.*

• Summer Programme at Girton College, Cambridge

*Engineering Summer Programme**July. 2019 – Aug. 2019*

- **Courses:** *Renewable Energy, The Jet Engine, Nanotechnology, Quantum Technologies.*

OTHER PERSONAL INTERESTS RELATED TO MATHEMATICS

• Physics and Mathematical Physics

Applying my Math knowledge to Theoretical Physics

- I learnt Quantum Mechanics and Hamiltonian Mechanics in the Summer of 2021. My knowledge in representation theory and elementary symplectic geometry were useful.