

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.