CHAN, Tsz Hong Clive Junior

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EDUCATION

M. Phil. in Mathematics | Cumulative GPA: 3.967   Aug 2023 – Present
Supervised by Prof. Man-Chun Lee, The Chinese University of Hong Kong   Hong Kong

B. Sc. in Mathematics | *First Class Honour*   Sep 2019 – Jul 2023
The Chinese University of Hong Kong   Hong Kong

Exchange Student   Jan – Apr 2023
University of Toronto   Toronto

SEMINAR

Conferences Attended
- 2024 The Fifth Taiwan International Conference on Geometry   Jan 2024

Graduate Reading— Supervised by Prof. Man-Chun Lee   Sep 2023-Present
Presentations based on the following papers:
- "Entropy And Heat kernel Bounds On A Ricci Flow Background." Richard H. Bamler.
- "Ricci Flow and A Sphere Theorem For $L^{\frac{n}{2}}$-Pinched Yamabe Metrics." Eric Chen, Guofang Wei, Rugang Ye.
- "Finite Diffeomorphism Theorem For Manifolds With Lower Ricci Curvature And Bounded Energy." Weishuai Jiang, Guofang Wei.

The following papers were read in detail to help the presentations:
- The series of papers establishing Cheeger-Colding and Cheeger-Colding-Tian theory.
- "L^p Pinching And Compactness Theorems For Compact Riemannian Manifolds." Deane Yang.
- "The Logarithmic Sobolev And Sobolev Inequalities Along The Ricci Flow." Rugang Ye.
- "Deformation Of Riemannian Metrics And Manifold With Bounded Curvature Ratios." Seiki Nishikawa.
- "Pointwise Pinched Manifolds Are Space Forms." Christophe Margerin.

Undergraduate Reading— Supervised by Prof. Man-Chun Lee   Jan-Nov 2022
Presentations based on the following papers:
- "Lecture notes on the Kähler-Ricci flow." Jian Song, Ben Weinkove
- "A Second Order Estimate For Complex Hessian Equations On A Compact Kähler Manifold." Zouliang Hou, Xi-Nan Ma and Damin Wu.
- "Sharp Geometric Inequalities For Closed Hypersurfaces In Manifolds With Nonnegative Ricci Curvature." Virginia Agostiniani, Mattia Fogagnolo, Lorenzo Mazzieri.

TEACHING EXPERIENCE (AS A TEACHING ASSISTANT)

Undergraduate Math Courses
Offered by the Department of Mathematics, The Chinese University of Hong Kong
- MATH1018, Honours University Mathematics   Fall 2023
- MATH1030, Linear Algebra I   Fall 2023
- MATH2068, Honours Mathematical Analysis II   Spring 2024

Enrichment Programme for Young Mathematics Talents
Jointly offered by The Chinese University of Hong Kong and The Institute of Mathematical Sciences
- Towards Differential Geometry   Summer 2021, 2023, 2024
- Number Theory and Cryptography   Summer 2022
- Towards Modern Algebra   Summer 2020

Honors and Awards

Research Studentship Aug 2023 – Jul 2025
Department of Mathematics, The Chinese University of Hong Kong

Dean's List Fall 2020
Lee Woo Sing College, The Chinese University of Hong Kong

Entrance Scholarship Fall 2019
Department of Mathematics, The Chinese University of Hong Kong

Skills

Languages: Fluent in English, Cantonese and Mandarin.

Coursework: Real Analysis, Complex Analysis, Partial Differential Equations, Differential Geometry, Differential Topology, Riemannian Geometry, Mean Curvature Flow