Jon Cheah | Curriculum Vitae

Department of Mathematics, The University of Hong Kong $+852\ 64203436$ • $+852\ 28578592$

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Education

PhD University of Hong Kong

Supervisor: Prof. Zheng Hua 2022–2026

MMath (Integrated Masters)

University of Warwick

Supervisor: Prof. Dmitriy Rumynin 2018–2022

International Baccalaureate West Island School, Hong Kong

2011-2018

Research Interests

Algebraic geometry, Lie theory, cluster algebras, representation theory.

Past Projects

Master's dissertation

Real McKay Correspondence: KR-Theory of Graded Kleinian Groups 2021–2022

Supervisor: Prof. Dmitriy Rumynin

3rd year project

Invariant Theory: The Symbolic Method and Geometry 2020–2021

Supervisor: Prof. Christian Böhning
Undergraduate Research Project

Funded by Warwick's URSS and the London Mathematical Society's URB Jul-Sep, 2020

Supervisor: Prof. Miles Reid

2nd year essay

Braid Groups 2019–2020

Conference paper submitted to ICCEM 2020

3-D Printed Circularly Polarized Terahertz Lens for Bessel Beam Generation Jul-Sep, 2019

Joint with Yat Long (Jeffrey) Yeung, Geng-Bo Wu, Ka Fai Chan, Chi Hou Chan

Teaching

University of Hong Kong.....

2024 Spring: MATH4302 Algebra II, Teaching Assistant

2023 Autumn: MATH3541 Introduction to Topology, Teaching Assistant

2023 Spring: MATH3303 Matrix Theory and Its Applications, Teaching Assistant

HKU teaching assistant duties include tutorials, office hours, assignment marking, and invigilation.

University of Warwick.....

2021–2022: Graduate Teaching Assistant: Undergraduate Supervisor

Marking assignments for 5 first-year undergraduate students. Organised twice weekly supervisions of problems, examples, and assignment feedback.

2019 Autumn: Peer Tutor for MA131 Analysis I

Assisted class teachers in demonstrating examples and answering questions from first-year students.

Talks

Apr 2024: Preprojective algebras via Serre functors and HRS-tilting, DOGS seminar

Jan 2024: Lifting open Richardson closure relations to categories, HKU qualifying research seminar

Sep 2023: Relative Bruhat decomposition for reductive group schemes, HKU student seminar on

algebraic groups

Service

2024–25: Senior Equal Opportunity Student Ambassador

2023-24: Equal Opportunity Student Ambassador

2023-Present: Research Postgraduate Wellness Ambassador

2023 Autumn: Peer English Tutor

Computer skills

Programming: MATLAB, SageMath, LATEX

Digital Tools: Microsoft Teams, Miro, Moodle, Zoom