

Jon Cheah | Curriculum Vitae

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Full name: CHEAH, Man Hei Jon

Education

PhD <i>Supervisor: Prof. Zheng Hua</i>	University of Hong Kong 2022–2026
MMath (Integrated Masters) <i>Supervisor: Prof. Dmitry Rumynin</i>	University of Warwick 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 <i>Real McKay Correspondence: KR-Theory of Graded Kleinian Groups</i> <i>Supervisor: Prof. Dmitry Rumynin</i>	2021–2022
3rd year project <i>Invariant Theory: The Symbolic Method and Geometry</i> <i>Supervisor: Prof. Christian Böhning</i>	2020–2021
Undergraduate Research Project <i>Funded by Warwick's URSS and the London Mathematical Society's URB</i> <i>Supervisor: Prof. Miles Reid</i>	Jul–Sep, 2020
2nd year essay <i>Braid Groups</i>	2019–2020
Conference paper submitted to ICCEM 2020 <i>3-D Printed Circularly Polarized Terahertz Lens for Bessel Beam Generation</i> <i>Joint with Yat Long (Jeffrey) Yeung, Geng-Bo Wu, Ka Fai Chan, Chi Hou Chan</i>	Jul–Sep, 2019

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, MAGMA, SageMath, \LaTeX , LEAN

Digital Tools: Microsoft Teams, Miro, Moodle, Zoom