Jon Cheah | Curriculum Vitae

Department of Mathematics, The University of Hong Kong

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Full name: CHEAH, Man Hei Jon

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 Autumn: MATH3541 Introduction to Topology, Teaching Assistant

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