

Clement Yung

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Education

2022 - Present	Doctor of Philosophy (Mathematics)	University of Toronto (UofT)
2018 - 2022	Bachelor of Science, Highest Distinction (Mathematics)	National University of Singapore (NUS)

Research Interests

Set theory and Ramsey theory, and in particular topological Ramsey-space like spaces which do not necessarily satisfy the pigeonhole principle.

Papers/Preprints

- *Weak A_2 spaces, the Kastanas game and strategically Ramsey sets*, submitted.
- *Definability of mad families of vector spaces and two local Ramsey theories*, submitted.

Talks

Feb 2025	<i>Weak A_2 spaces, the Kastanas game and strategically Ramsey sets</i> , Logic seminar, University of Waterloo
Nov 2024	<i>An alternative proof to the Mathias-Silver theorem using the Kastanas game</i> , 2024 CMS Winter Meet, Richmond
Oct 2024	<i>Weak A_2 spaces, the Kastanas game and strategically Ramsey sets</i> , Logic seminar, University of Maryland

Awards

2025	UofT	<i>John Robert Gilkison Smyth Mathematics Scholarship</i> Awarded to graduate students who demonstrated academic excellence.
2025	UofT	<i>Ida Bulat Memorial Graduate Fellowship</i> Awarded to graduate students who demonstrated academic excellence.
2024	UofT	<i>Margaret Haviland Kennedy Memorial Scholarship Fund</i>

2022	UoFT	<p>Awarded to graduate students who demonstrated academic excellence.</p> <p><i>Blyth Fellowship</i></p> <p>Awarded to incoming graduate students who exhibited excellent academic records.</p>
2022	NUS	<p><i>Leong Teng Kiang Memorial Prize in Mathematics</i></p> <p>Awarded to the best student in BSc Mathematics in the graduating batch of AY2021/22.</p>
2022	NUS	<p><i>Lijen Industrial Development Medal</i></p> <p>Awarded to the best academic project (MA4199 Honours Project in Mathematics) in Mathematics in AY2021/22.</p>
2022	NUS	<p><i>SPM Book Prize</i></p> <p>Awarded to the best student in Special Programme of Mathematics in the graduating batch of AY2021/22.</p>
2019 - 2021	NUS	<p><i>Dean's List</i></p> <p>Awarded to top 5% of the total undergraduate Science students for Academic Year 2019/20 and 2020/21, for both Semesters 1 and 2.</p>
2020	NUS	<p><i>Tan Teck Chwee Prize</i></p> <p>Awarded to the best student in Mathematics III for Academic Year 2019/20.</p>
2020	NUS	<p><i>Honor List of Student Tutors</i></p> <p>Awarded to student tutors who have attained this excellence during their course of teaching for Academic Year 2019/20.</p>
2018 - 2021	SMMC	<p><i>Simon Marais Mathematics Competition (SMMC) - Top Quartile</i></p> <p>Participated in the yearly SMMC, and attained 85th, 93th, 89th (doubles) in the years 2018, 2019, 2020 respectively.</p>
2018	NUS	<p><i>NUS Merit Scholarship</i></p> <p>Awarded to incoming students with outstanding academic and co-curriculum records. Provides full coverage of tuition fees along with yearly allowance.</p>

Teaching Experience

AY25/26 Winter	UofT	<i>MAT337 Introduction to Real Analysis</i>
AY25/26 Fall	UofT	<i>MAT309 Mathematical Logic</i>
AY25/26 Fall	UofT	<i>MAT337 Introduction to Real Analysis</i>
AY24/25 Fall/Winter	UofT	<i>MAT137 Calculus with Proofs</i>
AY24/25 Fall	UofT	<i>MAT309 Mathematical Logic</i>
AY24/25 Fall	UofT	<i>MAT409 Set Theory</i>
AY23/24 Winter	UofT	<i>MAT223 Linear Algebra</i>
AY23/24 Winter	UofT	<i>MAT224 Linear Algebra II</i>
AY23/24 Fall	UofT	<i>MAT309 Mathematical Logic</i>
AY22/23 Fall/Winter	UofT	<i>MAT133 Calculus and Linear Algebra for Commerce</i>
AY22/23 Fall	UofT	<i>MAT223 Linear Algebra</i>
AY19/20 Semester 2	NUS	<i>CS1231 Discrete Structures</i> Teaching Feedback Score: 4.2/5.0.
AY19/20 Semester 1	NUS	<i>CS1231 Discrete Structures</i> Teaching Feedback Score: 4.8/5.0.