

Clement Yung

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Education

2022 - Present	Doctor of Philosophy (Mathematics)	University of Toronto (UofT) Expected graduation year: 2027
2018 - 2022	Bachelor of Science (Mathematics) with second major in Statistics	National University of Singapore (NUS) GPA: 4.95/5.00 (Highest Distinction)

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

- **Definability of mad families of vector spaces and two local Ramsey theories**, submitted.
- **Weak A2 spaces, the Kastanas game and strategically Ramsey sets**, to appear in the *Journal of Symbolic Logic*.

Invited Talks/Travels

Nov 2025	Projections between topological Ramsey spaces , Infinite Structural Ramsey Theory, Banff International Research Station, Alberta, Canada.
Oct 2025	Definability of mad families of vector spaces and the fullness property , North American Descriptive Set Theory Meeting, Brin Mathematics Research Center, Maryland, USA
Mar 2025	Mad families of vector spaces , Set theory seminar, University of Toronto, Ontario, Canada
Feb 2025	Weak A2 spaces, the Kastanas game and strategically Ramsey sets , Logic seminar, University of Waterloo, Ontario, Canada
Nov 2024	An alternative proof to the Mathias-Silver theorem using the Kastanas game , 2024 CMS Winter Meet, British Columbia, Canada
Oct 2024	Weak A2 spaces, the Kastanas game and strategically Ramsey sets , Logic seminar, University of Maryland, Maryland, USA
Mar 2024	Weak A2 spaces and Ramsey games , Set theory seminar, University of Toronto, Ontario, Canada

Awards

2025	UofT	John Robert Gilkison Smyth Mathematics Scholarship (Awarded to graduate students who demonstrated academic excellence)
2025	UofT	Ida Bulat Memorial Graduate Fellowship (Awarded to graduate students who demonstrated academic excellence)
2024	UofT	Margaret Haviland Kennedy Memorial Scholarship Fund (Awarded to graduate students who demonstrated academic excellence)
2022	UofT	Blyth Fellowship (Awarded to incoming graduate students who exhibited excellent academic records)
2022	NUS	Leong Teng Kiang Memorial Prize in Mathematics (Awarded to the best student in BSc Mathematics in the graduating batch of AY2021/22)
2022	NUS	Lijen Industrial Development Medal (Awarded to the best academic project (MA4199 Honours Project in Mathematics) in Mathematics in AY2021/22)
2022	NUS	SPM Book Prize (Awarded to the best student in Special Programme of Mathematics in the graduating batch of AY2021/22)
2019 - 2021	NUS	Dean's List (Awarded to top 5% of the total undergraduate Science students for Academic Year 2019/20 and 2020/21, for both Semesters 1 and 2)
2020	NUS	Tan Teck Chwee Prize (Awarded to the best student in Mathematics III for Academic Year 2019/20)
2020	NUS	Honor List of Student Tutors (Awarded to student tutors who have attained this excellence during their course of teaching for Academic Year 2019/20)
2018 - 2021	SMMC	Simon Marais Mathematics Competition (SMMC) - Top Quartile (Participated in the yearly SMMC, and attained 85 th , 93 th , 89 th (doubles) in the years 2018, 2019, 2020 respectively)
2018	NUS	NUS Merit Scholarship (Awarded to incoming students with outstanding academic and co-curriculum records, and provides full coverage of tuition fees and yearly allowance)

Teaching Experience

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

Service

I was an organiser for the Student Set Theory and Combinatorics Seminar (SSTCS) in University of Toronto in AY23/24 and AY24/25.

Language Proficiency

Cantonese	Native
English	Fluent
Mandarin	Fluent
Japanese	JLPT N1