

# Clement Yung

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Last updated: February 13, 2026  
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<https://clementyung.github.io>

## 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

Feb 2026	<b>There is a completely separable mad family of vector spaces</b> , Set theory seminar, University of Toronto, Ontario, Canada
Nov 2025	<b>Projections between topological Ramsey spaces</b> , Infinite Structural Ramsey Theory, Banff International Research Station, Alberta, Canada
Oct 2025	<b>Definability of mad families of vector spaces and the fullness property</b> , North American Descriptive Set Theory Meeting, Brin Mathematics Research Center, Maryland, USA
Mar 2025	<b>Mad families of vector spaces</b> , Set theory seminar, University of Toronto, Ontario, Canada
Feb 2025	<b>Weak A2 spaces, the Kastanas game and strategically Ramsey sets</b> , Logic seminar, University of Waterloo, Ontario, Canada
Nov 2024	<b>An alternative proof to the Mathias-Silver theorem using the Kastanas game</b> , 2024 CMS Winter Meet, British Columbia, Canada
Oct 2024	<b>Weak A2 spaces, the Kastanas game and strategically Ramsey sets</b> , Logic seminar, University of Maryland, Maryland, USA
Mar 2024	<b>Weak A2 spaces and Ramsey games</b> , Set theory seminar, University of Toronto, Ontario, Canada

## Awards

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