

# YUNG CHEUK WAI CLEMENT

✉ [clement.yung@u.nus.edu](mailto:clement.yung@u.nus.edu)

## EDUCATION

---

### National University of Singapore

Aug 2018 - Jun 2022 (Expected)

*Bachelor of Science (Honours) in Mathematics with Highest Distinction*

- Cumulative GPA: 4.95/5.00 (as of AY2021/22 Semester 2)
- Expected First Class Honours
- Second Major: Statistics

## RESEARCH INTERESTS AND EXPERIENCES

---

I am mainly interested in exploring how various results in measure theory, generally topology and functional analysis hold in different models of set theory. I'm also interested in infinitary combinatorics and the inner model program.

### National University of Singapore

May 2021 - Mar 2022

*Honours Project in Mathematics*

- Title: *Diagonalisation Forcing with Infinite Block Sequences*. Supervised by Asst. Prof. Spencer Unger (Toronto) and Prof. Yang Yue.
- Introduced a variant of diagonalisation forcing by Neeman-Norwood for infinite block sequences.

### National University of Singapore

Aug 2020 - May 2021

*Undergraduate Research Opportunity in Science (UROPS)*

- Title: *On the Newton's Method and Nash-Moser Theorem*. Supervised by Asst. Prof. An Xinliang.
- Explored on Nash-Moser theorem, Newton's method and various applications such as Nash-Moser Theorem.

### National University of Singapore

May 2019 - Aug 2019

*Undergraduate Research Opportunity in Science (UROPS)*

- Title: *On a Class of Diophantine Equations with Floor Function*. Supervised by Assoc. Prof. Wong Yan Loi.
- Published in *Mathematical Medley*, Volume 45 No. 2.
- Explored various methods to find and bound integer solutions of equations with floor functions.

## HONOURS AND AWARDS

---

### Dean's List

2019 - 2021

- Awarded to top 5% of the total undergraduate Science students for Academic Year 2019/20 and 2020/21, for both Semesters 1 and 2.

### Tan Teck Chwee Prize

2020

- Awarded to the best student in Mathematics III for Academic Year 2019/20.

### Honour List of Student Tutors

2020

- Awarded to student tutors who have attained this excellence during their course of teaching for Academic Year 2019/20.

### Simon Marais Mathematics Competition (SMMC) - Top Quartile

2018, 2019, 2020

- Participated in the yearly SMMC, and attained 85<sup>th</sup>, 93<sup>th</sup>, 89<sup>th</sup> (doubles) for the year 2018, 2019 and 2020 respectively.

### NUS Merit Scholarship

2018

- Awarded to incoming students with outstanding academic and co-curriculum records. Provides full coverage of tuition fees along with yearly allowance.

## TEACHING EXPERIENCES

---

### National University of Singapore

Aug 2019 - May 2020

*Teaching Assistant for CS1231 Discrete Structures*

- AY19/20 Semester 1: Teaching Feedback 4.8/5.0.
- AY19/20 Semester 2: Teaching Feedback 4.2/5.0.

## MISCELLANEOUS

---

- Has experience in programming languages Python, VBA and Java. Contributed to various software development projects when serving in military.
- Is interested in the Japanese language and has basic fluency in Japanese.