

# Khwa Zhong Xuan

zhongxuan@u.yale-nus.edu.sg | +65 9696 3373 | [Linkedin.com/in/zhongxuan95](https://www.linkedin.com/in/zhongxuan95)

## EDUCATION

---

### Yale-NUS College

*Bachelor of Science, with Honours*

**Singapore**

2016-2020

- Majoring in Mathematical, Computational and Statistical Sciences.
- Awarded the Yale-NUS Global Leader Scholarship, a competitive, top-tier merit scholarship.
- Cumulative Average Point: 4.69
- Bachelor's Thesis: **Linear Algebraic Techniques for Spanning Tree Enumeration** (*In Progress*)

## RESEARCH EXPERIENCES

---

### CopeNLU, DIKU, University of Copenhagen

*Research Intern*

**Copenhagen**

May - July 2019

- Conducted research with Professor Isabelle Augenstein, Selvan Raghavendra and Johannes Bjerva on **Zero-Shot Relation Extraction with Graph Neural Network**.
- Processed existing zero-shot relation extraction dataset (Levy et al., 2018) to link entities and relations to wikidata entries.
- Designed Graph Neural Network initialized on BERT embeddings of sentences (for edges) and node labels to predict unseen relations in a zero-shot setting.

## TEACHING EXPERIENCES

---

### Yale-NUS College Peer Tutor Program

*Peer Tutor*

**Singapore**

August 2017 - April 2019

- Tutored for topics in Quantitative Reasoning, Proof, and Probability and Statistics courses.
- Conducted over 100 hours of individual and group peer tutoring sessions.
- Communicated difficult math concepts effectively to students from diverse academic backgrounds.

## LEADERSHIP EXPERIENCES

---

### Yale-NUS Ballroom Society

*President / Training Director*

**Singapore**

August 2017 - Present

- Lead the biggest active student organisation in Yale-NUS College.
- Awarded "Best Student Organisation" in the Kingfisher Awards 2019, an award ceremony organized by Yale-NUS College's Dean of Students Office.
- Conducted a year-long training program for first year dancers to learn the Waltz and Tango.

### Yale-NUS: The Brewhouse Project

*Co-Manager / Training IC*

**Singapore**

August 2017 - Present

- Organized the logistics and operations of a volunteer-run coffee cart.
- Liaised with various offices in the university for events.
- Managed the training and upkeep of a team of 20 student baristas.

### Yale-NUS Student Government

*Class of 2020 Representative*

**Singapore**

January 2019 - August 2019

- Represented the class of 2020 in weekly senate meetings, where topics such as attendance policies and student welfare were discussed and advocated for.
- Proposed and passed senate resolution to establish a campus data office to better manage how the school handles student data and survey results.

## SKILLS

---

**Coding Languages:** Proficient: Python, R,  $\LaTeX$  | Familiar: Elixir, OCaml, Octave

**Languages:** English (native), Chinese (native)

**Others:** Adobe Photoshop, Video Editing with Final Cut Pro