

Education

Yale-NUS College Singapore

BACHELOR OF SCIENCE, WITH HONOURS

Jul. 2016 - May 2020

- · Majored in Mathematical, Computational & Statistical Sciences.
- Attained a Cumulative Average Point of 4.68 / 5.00.
- · Awarded the Global Leader Scholarship in recognition of success in academics, extracurricular involvement, and leadership.
- Bachelor's Thesis on Linear Algebraic Techniques for Spanning Tree Enumeration (in progress), with Professor Matthew T. Stamps.

Research Experience

Yale-NUS College (Research Project on Computational Geometriy and Animal Behaviour)

Singapore

RESEARCH TEAM LEAD

Starting in Jan. 2020

 Will begin leading a team of 6 Research Assistants on a project on "Computational Geometric Techniques for Modelling Inherent Variability in Animal Behavior", working with Professor Matthew Stamps and Professor Ajay Mathuru.

CopeNLU, University of Copenhagen

Copenhagen, Denmark

RESEARCH INTERN

May 2019 - Jul. 2019

- Worked on exploratory project investigating Zero-shot Relation Extraction with Graph Neural Networks, with Professor Isabelle Augenstein, Selvan Raghavendra, and Johannes Bjerva.
- Developed and applied method for linking entities in existing zero-shot relation extraction dataset (Levy et al. 2018) to WikiData entries.
- Implemented a Graph Neural Network initialized with BERT embeddings of sentences (for edges) and node labels to predict unseen relations in a zero-shot setting.

Teaching Experience

Yale-NUS College Peer Tutor Program

Singapore

PEER TUTOR (QUANTITATIVE REASONING, PROOF, PROBABILITY AND STATISTICS)

Aug. 2017 - Apr. 2019

- Taught and led over 100 hours of individual and group peer tutoring sessions.
- · Communicated difficult mathematical concepts effectively to students from diverse academic backgrounds.

Leadership Experience

Yale-NUS College Residential College Advisor Program

Singapore

RESIDENTIAL COLLEGE ADVISOR

May 2019 - Present

- Provided extensive support for international group of first-year students through academic issues, personal wellness, and crisis situations.
- · Trained in conflict management and mediation, facilitating productive dialogue in diverse groups, and identity-based intersectional support.

Residential Housing, Yale-NUS College Dean of Student's Office

Singapore

STUDENT ASSOCIATE

Aug. 2019 - Present

- Researched and prototyped automated method for allocating housing for first-year students and exchange students, who make up 30% of total
 annual enrollment.
- Developed Python package for housing allocation which integrates into existing work-flow.

Yale-NUS Ballroom Society

Singapore

CAPTAIN / ADVANCED TRAINING DIRECTOR

January 2019 - November 2019

- Led the biggest active student organization in Yale-NUS College, with 67 members.
- Awarded "Best Student Organization" in the Kingfisher Awards 2019, an award ceremony organized by Yale-NUS College's Dean of Student's Office to recognise excellence in student organisations.
- Designed and executed training programs for both first-year dancers as well as advanced dancers.

Skills

Programming Proficient: Python, R, ŁTFX. Familiar: OCaml, Elixir, Octave.

ML / Al PyTorch, Deep Graph Library, Stanford CoreNLP.

Relevant Tools Git, SQL, Google Cloud Platform.

Languages English (Native), Chinese (Conversational).

DECEMBER 26, 2019 ZHONG XUAN KHWA · RÉSUMÉ