

## Tsz Ting, Chung

### EDUCATION

#### The Hong Kong University of Science and Technology

Doctor of Philosophy in Computer Science and Engineering

2021 - Present

#### The Chinese University of Hong Kong

Bachelor of Science (Hons) in Computer Science [1st Hons, ELITE Stream]

2017 - 2021

### WORKING EXPERIENCE

#### Pattern Recognition Center, WeChat AI, Tencent

Research Intern

May 2025 - Now

#### Tencent AI Lab

Research Intern

Nov 2023 - Sept 2024

#### Hospital Authority AI Lab

Research Assistant

Jan 2021 - July 2021

Developed a procurement search engine handling multi-requirement inputs, a webpage retrieval engine integrated with a QA system and a patient cohort search engine by fine-tuning LLMs.

#### Stanley Ho Big Data Decision Analytics Research Centre

Research Assistant

Jun 2020- Sept 2020

Developed Acoustic Speech Recognition (ASR) models and implemented a server-client API.

### AWARDS & SCHOLARSHIP

**2021-Now** Hong Kong Ph.D. Fellowship, Hong Kong Research Grants Council

**2021-2022** Professor Samuel Chanson Best PGTA Award, HKUST

**2021-2022** RedBird Ph.D. Scholarship, HKUST

**2020-2021** Dean's List Of The Engineering Faculty, CUHK

**2020-2021** Silver Award For Outstanding Academic Performance, CUHK

**2018-2020** ELITE Stream Student Scholarship, CUHK

### RESEARCH

#### On the Role of Chain of Thoughts in the Long In-Context Learning

Tsz Ting Chung, Lemao Liu, Mo Yu, Dit-Yan Yeung – *In Submission*.

- Investigate in-context CoTs learning in long-context settings in comparison to traditional ICL for classification tasks. It identifies key issues in in-context CoTs, proposes solutions for performance enhancement, and analyzes correlating factors influencing its success.

#### DivLogicEval: A Framework for Benchmarking Logical Reasoning Evaluation in Large Language Models

Tsz Ting Chung, Lemao Liu, Mo Yu, Dit-Yan Yeung – *In Submission*.

- Introduce a new benchmark designed to assess the logical reasoning ability of LLMs while minimizing the influence of their other reasoning capabilities. It addresses issues related to distribution bias and proposes a new evaluation metric to reduce evaluation bias and uncertainty.

#### Unified Triplet-Level Granularity Hallucination Evaluation for Vision Language Models

Junjie Wu\*, Tsz Ting Chung\*, Kai Chen\* and Dit-Yan Yeung – *TMLR 2025*.

- Introduce a new framework to evaluate LLMs' hallucination on the triplet level, with a benchmark dataset for evaluation and a mitigation method proposed based on the paper's findings.

#### The Stochastic Parrot on LLMs Shoulder: A Summative Assessment of Physical Concept Understanding

Mo Yu\*, Lemao Liu\*, Junjie Wu\*, Tsz Ting Chung\*, Shunchi Zhang\*, Jiangnan Li, Dit-Yan Yeung, Jie Zhou – *NAACL 2025 (Oral)*.

- Investigate the stochastic parrot phenomenon and propose a task that alleviates the memorization issue via the usage of grid-format inputs that abstractly describe physical phenomena.

#### Selection-p: Self-Supervised Task-Agnostic Prompt Compression for Faithfulness and Transferability

Tsz Ting Chung, Leyang Cui, Lemao Liu, Xinting Huang, Shuming Shi, Dit-Yan Yeung – *EMNLP 2024*.

- With simple tuning and small additional parameters, LLMs can achieve a better or similar level of performance in natural language understanding tasks with compressed demonstrations.