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Tsz Ting, Chung

EDUCATION

The Hong Kong University of Science and Technology
Doctor of Philosophy in Computer Science and Engineering — 2021 - Now

The Chinese University of Hong Kong
Bachelor of Science (Hons) in Computer Science — 2017 - 2021
[1st Hons, ELITE Stream]

WORKING EXPERIENCE

Tencent AI Lab
Research Intern — Nov 2023 - Sept 2024
Research on demonstration compression.

Hospital Authority AI Lab
Research Assistant — Jan 2021 - July 2021
Built a procurement search, a webpage retrieval, and a patient cohort search engine.

Stanley Ho Big Data Decision Analytics Research Centre
Research Assistant — Jun 2020- Sept 2020
Built Acoustic Speech Recognition (ASR) Models and 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**
2018-2019	**Fong Shu Chuen Scholarship, CUHK**
2017-2018	**Shum Choi Sang Scholarship, CUHK**
2017-2018	**Faculty Admission Scholarship, CUHK**

RESEARCH

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
Findings of the 2024 Conference on Empirical Methods on Natural Language Processing (EMNLP 2024)

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

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

- 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.

Unified Triplet-Level Granularity Hallucination Evaluation for Vision Language Models
Junjie Wu*, **Tsz Ting Chung***, Kai Chen* and Dit-Yan Yeung

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

DLogicEval: Benchmarking Logical Reasoning Evaluation for Large Language Models
Tsz Ting Chung, Lemao Liu, Mo Yu, Dit-Yan Yeung

- 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 diversity and proposes a new evaluation metric to reduce bias and uncertainty.

OUT-SCHOOL ACTIVITIES AND COMPETITIONS

Collaborative Lab, London Sept 2019
Competition in solving the grand challenges in our future world through technologies

Global Grand Challenge Summit, London Sept 2019
Inspirational world leaders giving keynotes on solving the grand challenges in our future world of 10 billion people through transformational technologies

European Innovation Academy, Portugal July 2019 - Aug 2019
Start-up competition with keynotes given by world-leading businessmen

Impact Award, U-STEMist Programme, Hong Kong Oct 2018- June 2019
Helped build an app to encourage subjugated knowledge and serve as an online community for teens.

VOLUNTEER SERVICE WORK

Service Learning Internship Programme, Tokushima City of Japan Dec 2018- Jan 2019
Helped the underprivileged community and organized activities for the Countdown Event for the New Year

LANGUAGE

International English Language Testing System (IELTS) 7.0
Japanese Language Proficiency Test N4