Wai-Chung Kwan, Cyrus

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EDUCATION

The Chinese University of Hong Kong   **Aug. 2020 – Present**
Doctor of Philosophy (PhD) in Systems Engineering and Engineering Management
Supervised by Prof. Wong Kam Fai

Hong Kong Baptist University   **2015 – 2019**
Bachelor of Science (Hons) in Computer Science
Minor in Statistics
- Dean's List (2018/19; 2017/18)
- Outstanding Student Scholarship (2016/17)

EXPERIENCE

Research Intern   **Jun. 2023 – Feb. 2024**
Huawei Noah's Ark Lab
- Perform research in dialogue systems and large language models

Research Assistant (Full Time)   **Aug. 2019 – Aug. 2020**
Hong Kong Baptist University
- Perform text analysis on social media data(e.g. lihkg forum)
- Develop model for different NLP projects
    - News Headline Generation
    - Cantonese Word Segmentation

Data Scientist (Intern)   **May. 2018 – Aug. 2018**
MultiMedia Big Data Analytics Limited
- Develop Natural Language Processing Deep Learning models
    - Sentiment Analysis, Information Extraction etc.
- Devise better data-driven models of human behavior
- Take part in researches to advance the science and technology of intelligent machines.

Research Assistant (Part Time)   **Jan. 2018 – May. 2019**
Hong Kong Baptist University
- Data cleaning and processing for some text mining research.
- Apply statistics model and machine learning model to data
- Sentiments analysis in social media

PUBLICATIONS (* indicates equal contribution)

1. <u>MT-Eval: A Multi-Turn Capabilities Evaluation Benchmark for Large Language Models</u>
   Wai-Chung Kwan, Xingshan Zeng, Yuxin Jiang, Yufei Wang, Liangyou Li, Lifeng Shang, Xin Jiang, Qun Liu, and Kam-Fai Wong
   arXiv:2401.16745. Feb 2024.

2. <u>M4LE: A Multi-Ability Multi-Range Multi-Task Multi-Domain Long-Context Evaluation Benchmark for Large Language Models</u>
   Wai-Chung Kwan, XingShan Zeng, Yufei Wang, Yusen Sun, Liangyou li, Lifeng Shang, Qun Liu, and Kam-Fai Wong.
   arXiv:2310.19240. Oct 2023.

3. <u>Large Language Models as Source Planner for Personalized Knowledge-grounded Dialogue</u>
   Hongru Wang, Minda Hu, Yang Deng, Rui Wang, Fei Mi, Weichao Wang, Yasheng Wang, **Wai-Chung Kwan**, Irwin King, and Kam-Fai Wong.
   Findings of Empirical Methods in Natural Language Processing (EMNLP), 2023.

4. <u>ReadPrompt: A Readable Prompting Method for Reliable Knowledge Probing</u>
   Zezhong Wang, Luyao Ye, Hongru Wang, **Wai-Chung Kwan**, David Ho, and Kam-Fai Wong.
   Findings of Empirical Methods in Natural Language Processing (EMNLP), 2023.

5. <u>Dialog Action-Aware Transformer for Dialog Policy Learning</u>
   Huimin Wang*, **Wai-Chung Kwan***, and Kam-Fai Wong.
   Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL), 2023.

6. <u>CoAD: Automatic Diagnosis through Symptom and Disease Collaborative Generation</u>
   Huimin Wang*, **Wai-Chung Kwan***, and Kam-Fai Wong.
   Annual Meeting of the Association for Computational Linguistics (ACL), 2023.

7. <u>A Survey on Recent Advances and Challenges in Reinforcement Learning Methods for Task-oriented Dialogue Policy Learning</u>
   Wai-Chung Kwan*, Hongru Wang*, Huimin Wang, and Kam-Fai Wong.
   Machine Intelligence Research (2023).

8. <u>JoTR: A Joint Transformer and Reinforcement Learning Framework for Dialog Policy Learning</u>
   Wai-Chung Kwan*, Huimin Wang*, Hongru Wang, Zezhong Wang, Xian Wu, Yefeng Zheng, and Kam-Fai Wong.
   arxiv:2309.00230, Sep 2023.

9. <u>Towards Robust Personalized Dialogue Generation via Order-Insensitive Representation Regularization</u>
   Liang Chen, Hongru Wang, Yang Deng, **Wai-Chung Kwan**, Zezhong Wang, and Kam-Fai Wong.
   Findings of the Association for Computational Linguistics (ACL), 2023.

10. <u>MCML: A Novel Memory-based Contrastive Meta-Learning Method for Few Shot Slot Tagging</u>
    Hongru Wang, Zezhong Wang, **Wai-Chung Kwan**, and Kam-Fai Wong
    Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics (AACL), 2023.

11. <u>Prior Omission of Dissimilar Source Domain(s) for Cost-Effective Few-Shot Learning</u>
    Zezhong Wang*, Hongru Wang*, **Wai-Chung Kwan**, and Kam-Fai Wong.
    International Conference on Natural Language and Speech Processing (ICNLSP), 2022.

12. <u>Using Time-Series Patterns in Word Segmentation for Data Pre-Processing: A Methodological Development in Evolving Public Discourse Mining</u>
Yin Zhang, **Wai-Chung Kwan**, Wai-Yeung Ho, Chi-Chi Tong, and Tsz-Ho Hui.
Conference of International Communication Association (ICA), 2020.