Kwan Wai Chung, 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

- Perform research in Dialogue systems, Reinforcement Learning, Deep Learning, Natural Language Processing.

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 – Nov. 2023**

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

1. Wang, HM.*, **Kwan, WC.***, Wong, KF. (2023). Dialog Action-Aware Transformer for Dialog Policy Learning. Proceedings of the 24rd Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2023).
2. Wang, HM.*, **Kwan, WC.***, Wong, KF., Zheng, YF. (2023). CoAD: Automatic Diagnosis through Symptom and Disease Collaborative Generation. In Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL2023, Volume 1: Long Papers), pages 6348-6361, Toronto, Canada. Association for Computational.
3. **Kwan, WC.***, Wang, HR.*, Wang, HM, Wong, KF. (2023). A Survey on Recent Advances and Challenges in Reinforcement Learning Methods for Task-oriented Dialogue Policy Learning. Machine Intelligence Research (2023).
4. Chen, L., Wang, HR., Deng Y., **Kwan, WC.**, Wang, ZZ., Wong, KF. (2023). Towards Robust Personalized Dialogue Generation via Order-Insensitive Representation Regularization, In Findings of the Association for Computational Linguistics (ACL 2023), pages 7337–7345, Toronto, Canada. Association for Computational Linguistics.
5. Wang, HR., Wang, ZZ., **Kwan, WC.**, Wong, KF. (2023). MCML: A Novel Memory-based Contrastive Meta-Learning Method for Few Shot Slot Tagging. In Proceedings of the 3rd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics (AACL 2023).
6. Wang, ZZ.*, Wang, HR.*, **Kwan, WC.**, and Wong, KF. (2022). Prior Omission of Dissimilar Source Domain(s) for Cost-Effective Few-Shot Learning. In Proceedings of the 5th International Conference on Natural Language and Speech Processing (ICNLSP 2022), pages 30–39, Trento, Italy. Association for Computational Linguistics.
7. Zhang, Y., **Kwan, WC.**, Ho, S. W., Tong, C. C., & Hui, J. T. (2020). Using time-series patterns in word segmentation for data preprocessing: A methodological development in evolving public discourse mining. 2020 Conference of International Communication Association (ICA), Gold Coast, Australia.

(* indicates equal contribution)