

Chun Hei LO

✉ aaronlo326@gmail.com

🌐 <https://aaronlo326.github.io/>

EDUCATION	Ph.D. in Systems Engineering and Engineering Management The Chinese University of Hong Kong (CUHK) Thesis: <i>Learning Semantics from Meaning Representations: From Distributional and Graph-Grammatical Perspectives</i> B.Sc. (Hons) with First Class Honors in Computer Science The Chinese University of Hong Kong	Aug 2019–Present (Expected: Jan 2024) Sept 2015–July 2019
WORK EXPERIENCE	Junior Research Assistant Department of Systems Engineering and Engineering Management, CUHK <ul style="list-style-type: none">Collaboratively researched cross-framework meaning representations parsing and published a paper Software Engineer Intern Set Sail Software <ul style="list-style-type: none">Automated analysis of chatbot’s performance on actual message data	July 2019 June 2018–Aug 2018
SELECTED PUBLICATIONS AND PREPRINTS	<p>[4] Chun Hei Lo and Guy Emerson. 2023. Distributional Inclusion Hypothesis and Quantifications: Probing Hypernymy in Functional Distributional Semantics. arXiv:2309.08325</p> <p>[3] Chun Hei Lo, Hong Cheng, Wai Lam, and Guy Emerson. 2023. Functional Distributional Semantics at Scale. In <i>Proceedings of the 12th Joint Conference on Lexical and Computational Semantics (*SEM 2023)</i>, pages 423–436, Toronto, Canada</p> <p>[2] Chun Hei Lo, Wai Lam, and Hong Cheng. 2022. Semantic Composition with PSHRG for Derivation Tree Reconstruction from Graph-Based Meaning Representations. In <i>Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)</i>, pages 5425–5439, Dublin, Ireland</p> <p>[1] Mudit Chaudhary, Borislav Dzodzo, Sida Huang, Chun Hei Lo, Mingzhi Lyu, Lun Yiu Nie, Jinbo Xing, Tianhua Zhang, Xiaoying Zhang, Jingyan Zhou, Hong Cheng, Wai Lam, and Helen Meng. 2021. Unstructured Knowledge Access in Task-oriented Dialog Modeling using Language Inference, Knowledge Retrieval and Knowledge-Integrative Response Generation. arXiv:2101.06066</p>	
PROJECTS	Task-Oriented Dialogue System with Unstructured Knowledge Access <ul style="list-style-type: none">I was a member of the CUHK team in participating the Ninth Dialog System Technology Challenge (DSTC9). I led a subteam of undergraduates and research assistants and developed an approach to the subtask of knowledge selection for answering users’ queries. We ranked 12 out of the 24 participating teams in the end. CV–JD Recommendation System <ul style="list-style-type: none">I wrote a crawler to scrap over 40,000 publicly available CVs and 20,000 job descriptions (JDs), from which word-level and document-level representations were learnt using unsupervised methods. A CV–JD matching algorithm based on the learnt representations was developed and comprehensively evaluated.	2021 2019
SELECTED AWARDS	Dean’s List , Faculty of Engineering, CUHK Master’s List , Wu Yee Sun College, CUHK ELITE Stream Student Scholarship , Faculty of Engineering, CUHK Computer Science Scholarship , Dept. of Computer Science and Engineering, CUHK Medals , Hong Kong Olympiad in Informatics <ul style="list-style-type: none">Silver (Senior Group) in 2015; Gold (Junior Group) in 2013; Silver (Junior Group) in 2012	2015–16, 2016–17, 2017–18, 2018–19 2016–17, 2017–18, 2018–19 2016–17, 2018–19 2015–16
INVITED PRESENTATIONS	<i>Functional Distributional Semantics (FDS) at Scale and Probing Hypernymy in FDS</i> , 19th DELPH-IN Summit, Language and Information Society of University of A Coruña <i>Semantic Composition with PSHRG for Derivation Tree Reconstruction from Graph-Based Meaning Representations</i> , Seminar at Foundations of Language Processing of Umeå University, Virtual	27 June 2023 16 Sept 2022
TEACHING EXPERIENCE	Teaching Assistant Faculty of Engineering, CUHK <ul style="list-style-type: none">CSCI2100: Data StructuresSEEM3550: Fundamentals in Information Systems	2019–20, 2020–21, 2021–22, 2022–23 2020–21, 2021–22, 2022–23
CORE SKILLS AND COMPETENCIES	Natural Languages Cantonese (<i>native</i>), English (<i>proficient</i>), Mandarin (<i>proficient</i>) Programming Languages Python (<i>experienced</i>), C (<i>experienced</i>) Frameworks PyTorch (<i>experienced</i>), scikit-learn (<i>experienced</i>)	