

Dongchu XIE

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EDUCATION

The Chinese University of Hong Kong, Shenzhen

Shenzhen, China

Bachelor of Engineering in Computer Science and Engineering

Sept 2023 – Present

Expected Graduation: May 2027

CGPA: 3.54/4.00

Core courses: Calculus, Probability and Statistics, Linear Algebra, C and C++ Programming, Machine Intelligence and Applications, Machine Learning, Reinforcement Learning, Systems Design in Human-Computer Interaction, Computer Networks, Introduction to Robotics, Introduction to Embedded Systems

PUBLICATIONS

Hanfu-Bench: A Multimodal Benchmark on Cross-Temporal Cultural Understanding and Transcreation

Li Zhou, Lutong Yu, **Dongchu Xie**, Shaohuan Cheng, Wenyan Li, Haizhou Li, in Proc. of Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP) Main Conference oral 2025

Emo-LiPO: Listwise Preference Optimization for Fine-Grained Emotion Intensity Control in LLM-based Text-to-Speech

Yihang Lin, Li Zhou, Congwei Cao, **Dongchu Xie**, Xiaoxue Gao, Chen Zhang, Haizhou Li, Submitted to 35th International Joint Conference on Artificial Intelligence - 29th European Conference on Artificial Intelligence (IJCAI) 2026

EXPERIENCE

Research Assistant

January 2025 – Present

The Chinese University of Hong Kong, Shenzhen HLT Lab

Shenzhen

Supervisor: Haizhou Li (Academician of the Singapore Academy of Engineering, IEEE Fellow, ISCA Fellow)

- **Hanfu-Bench (EMNLP 2025):** Co-developed a multimodal benchmark for vision-language models to evaluate cultural evolution; curated 1,192 expert-annotated images spanning 5 dynasties and introduced cultural visual understanding tasks.
- **Emo-LiPO (IJCAI 2026 Submitted):** Proposed a listwise preference optimization framework for fine-grained emotion intensity control in TTS; constructed the ESD-plus dataset and significantly outperformed DPO-based baselines in controllability.
- **EmpathyPrefer (Ongoing):** Leading the development of a multi-dimensional benchmarking framework for Speech-Language Models; building an automated Judge model and utilizing DPO to align model outputs with complex human empathetic preferences.

Part-time Research Assistant

November 2025 – Present

Agency for Science, Technology and Research, CFAR

Online

Supervisor: Prof. Ivor Tsang (IEEE Fellow)

- **Robust Offline-to-Online Reinforcement Learning (Ongoing):** Designing robust algorithms to simultaneously mitigate dynamic environment shifts and severe data corruption; developing frameworks to enhance performance stability during the transition from adversarial offline datasets to online fine-tuning and execution.

SKILLS

Programming: Python, C, C++, C#, Julia, MATLAB, MySQL

Language: Native Mandarin, Fluent English and German

Leadership: President of Model United Nations Association and TED CUHKSZ Association

HONORS

Honorable Mention, The 2025 MCM/ICM, organized by COMAP

2024 Shaw Spirit Award of Shaw College

The Provincial Honor of First Prize in Mathematics Competition