

# Dongchu XIE

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## EDUCATION

### The Chinese University of Hong Kong, Shenzhen

Bachelor of Engineering in Computer Science and Engineering

Shenzhen, China

Sept 2023 – Present

**CGPA:** 3.54/4.00

**Expected Graduation:** May 2027

**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 CUHK SZ 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