

# Delong Chen (陈德龙)

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## Education

<b>Hong Kong University of Science and Technology (HKUST)</b> Ph.D. Student in ECE Department, advised by <a href="#">Prof. Pascale Fung</a>	<b>Sept. 2023 – Present</b> Hong Kong, China
<b>Hohai University</b> B.Eng. in Computer Science, advised by <a href="#">Prof. Fan Liu</a>	<b>Sept. 2017 – Jun. 2021</b> Nanjing, China
<b>University of British Columbia</b> Summer Program: linguistics and computation for natural language processing	<b>Jul. 2018 – Aug. 2018</b> Vancouver, Canada

## Work Experience

<b>Research Intern</b> Visual instruction tuning for multimodal LLMs	<b>Xiaobing.ai (Microsoft XiaoIce)</b> Beijing, China	<b>Mar. 2023 – Sept. 2023</b>
<b>Research Intern</b> Vision-language learning for embodied AI	<b>Microsoft Research Asia (MSRA)</b> Beijing, China	<b>Oct. 2022 – Jan. 2023</b>
<b>Research Intern</b> Large-scale contrastive vision language pretraining	<b>MEGVII Research (Face++)</b> Beijing, China	<b>Oct. 2021 – Oct. 2022</b>
<b>Research Assistant</b> Vision-language learning for remote sensing, few-shot learning	<b>Hohai University</b> Nanjing, China	<b>Sept. 2021 – Sept. 2023</b>

## Awards and Prizes

- **Best Paper** at AAAI 2023 Inaugural Summer Symposium Series - AI x Metaverse
- **Best Demo** Award in IEEE International Conference on Multimedia and Expo (ICME) 2021
- **Best Dataset** Paper Award in Long-Tailed Distribution Learning Workshop, IJCAI 2021
- **Best Presentation** Award in International Conference on Big Data and Artificial Intelligence (BDAI) 2021
- **First-Class Outstanding Thesis** in Jiangsu Province
- **Outstanding Thesis** of Hohai University
- **Outstanding Graduate** of Hohai University
- **Person of the Year** of the in Jiangsu Province (nomination award)
- **Person of the Year** of Hohai University in 2019
- **Third Prize** of 2018 the 8th China Software Cup, East China Division Finals (team Leader)

## Publications

\* joint first author    ✉ corresponding author

- [1] **Delong Chen**, Jianfeng Liu, Wenliang Dai, Baoyuan Wang  
**Visual Instruction Tuning with Polite Flamingo**  
*Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI), 2024.* [[github](#)] [[arxiv](#)]
- [2] **Delong Chen**, Zhao Wu, Fan Liu, Zaiquan Yang, Huaxi Huang, Ying Tan, Erjin Zhou.  
**ProtoCLIP: Prototypical Contrastive Language Image Pretraining**  
*IEEE Transactions on Neural Networks and Learning Systems (T-NNLS), 2023.* [[github](#)] [[arxiv](#)] [[doi](#)]
- [3] **Delong Chen**, Fan Liu, Zewen Li, Feng Xu  
**VirtualConductor: Music-driven Conducting Video Generation System**  
*IEEE International Conference on Multimedia & Expo (ICME) 2021.* [[video](#)] (Best Demo)

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- [4] **Delong Chen**, Fan Liu, Xiaoyu Du, Ruizhuo Gao, Feng Xu.  
**MEP-3M: A Large-scale Multi-modal E-Commerce Products Dataset**  
*IJCAI-21 Workshop on Long-Tailed Distribution Learning, 2021*. [[paper](#)] (Best Dataset Paper)
- [5] **Delong Chen**, Fan Liu, Zheqi Zhang, Xiaomin Lu, Zewen Li  
**Significant Wave Height Prediction based on Wavelet Graph Neural Network**  
*The 4th International Conference on Big Data and Artificial Intelligence, 2021*. [[arxiv](#)] [[doi](#)] (Best Presentation)
- [6] **Delong Chen**, Ruizhi Zhou, Yanling Pan, Fan Liu.  
**A Simple Baseline for Adversarial Domain Adaptation-based Unsupervised Flood Forecasting**  
*ArXiv Preprint, 2022*. [[github](#)] [[arxiv](#)]
- [7] Fan Liu, **Delong Chen**✉, Ruizhi Zhou, Sai Yang, Feng Xu  
**Self-Supervised Music Motion Synchronization Learning for Music-Driven Conducting Motion Generation**  
*Journal of Computer Science and Technology (JCST), 2022* [[github](#)] [[video](#)] [[doi](#)]
- [8] Fan Liu\*, **Delong Chen**\*, Zhangqingyun Guan, Xiaocong Zhou, Jiale Zhu, Jun Zhou  
**RemoteCLIP: A Vision Language Foundation Model for Remote Sensing**  
*ArXiv Preprint, 2023*. [[github](#)] [[arxiv](#)]
- [9] Fan Liu\*, **Delong Chen**\*, Xiaoyu Du, Ruizhuo Gao, Feng Xu  
**MEP-3M: A Large-scale Multi-modal E-commerce Product Dataset**  
*Pattern Recognition, 2023*. [[github](#)] [[doi](#)]
- [10] Fan Liu\*, **Delong Chen**\*, Fei Wang, Zewen Li, Feng Xu  
**Deep Learning based Single Sample Face Recognition: A Survey**  
*Artificial Intelligence Review, 2022*. [[arxiv](#)] [[doi](#)]
- [11] Xinyu Zhou\*, **Delong Chen**\*, Yudong Chen  
**Towards Joint Modeling of Dialogue Response and Speech Synthesis based on Large Language Model**  
*The 6th International Conference on Natural Language and Speech Processing (ICNLSP), 2023*. [[github](#)] [[arxiv](#)]
- [12] Fan Liu, Tianshu Zhang, Wenwen Dai, Wenwen Cai, Xiaocong Zhou, **Delong Chen**✉  
**Few-shot Adaptation of Multi-modal Foundation Models: A Survey**  
*ArXiv Preprint, 2024* [[arxiv](#)]
- [13] Fan Liu, **Delong Chen**, Jun Zhou, Feng Xu  
**A Review of Driver Fatigue Detection and Its Advances on the Use of RGB-D Camera and Deep Learning**  
*Engineering Applications of Artificial Intelligence, 2022*. [[doi](#)]
- [14] Fan Liu, Sai Yang, **Delong Chen**, Huaxi Huang, Jun Zhou  
**Few-shot Classification Guided by Generalization Error Bound**  
*Pattern Recognition, 2023*. [[doi](#)]
- [15] Sai Yang, Fan Liu, **Delong Chen**, Jun Zhou  
**Few-shot Classification via Ensemble Learning with Multi-Order Statistics**  
*Thirty-Second International Joint Conference on Artificial Intelligence (IJCAI), 2023*. [[arxiv](#)] (Oral)
- [16] Zhuoran Zhao, Jinbin Bai, **Delong Chen**, Debang Wang, Yubo Pan  
**Taming Diffusion Models for Music-driven Conducting Motion Generation**  
*AAAI 2023 Inaugural Summer Symposium Series – AI x metaverse*. [[github](#)] [[arxiv](#)] [[doi](#)] (Best Paper)

## Academic Services

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- **Reviewer:** ACM Multimedia 2023, Artificial Intelligence Review, IEEE Transactions on Intelligent Transportation Systems, Journal of Digital Imaging