

JIERUN CHEN

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EDUCATION

The Hong Kong University of Science and Technology

Sep. 2019 - Present

Ph.D. in Computer Science and Engineering

Supervisor: Shueng-Han Gary Chan

Zhejiang Univeristy

Sep. 2014 - June 2018

B.Eng in Electrical Engineering and Automation

High Distinction from Edison Experimental Class

Singapore University of Technology and Design

Sep. 2016 - Dec. 2016

Exchange Student in Engineering Product Design

PUBLICATIONS

Jierun Chen is interested in multimodal large language models (MLLM), foundation models, efficient deep learning, compression, and acceleration.

* denotes equal contribution.

1. StableKD: Breaking Inter-block Optimization Entanglement for Stable Knowledge Distillation
Jierun Chen*, Shiu-hong Kao*, S.-H. Gary Chan
In submission, 2023
2. Run, Don't Walk: Chasing Higher FLOPS for Faster Neural Networks
Jierun Chen, Shiu-hong Kao, Hao He, Weipeng Zhuo, Song Wen, Chul-Ho Lee, S.-H. Gary Chan
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023
3. TVConv: Efficient Translation Variant Convolution for Layout-aware Visual Processing
Jierun Chen, Tianlang He, Weipeng Zhuo, Li Ma, Sangtae Ha, S.-H. Gary Chan
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022
4. Joint Demosaicking and Denoising in the Wild: The Case of Training Under Ground Truth Uncertainty
Jierun Chen, Song Wen, S.-H. Gary Chan
AAAI Conference on Artificial Intelligence (AAAI), 2021
5. CP-NeRF: Conditionally Parameterized Neural Radiance Fields for Cross-scene Novel View Synthesis
He Hao, Liang Yixun, Xiao Shishi, **Jierun Chen**, Chen Yingcong
The 31th Pacific Conference on Computer Graphics and Applications (Pacific Graphics), 2023
6. FIS-ONE: Floor Identification System with One Label for Crowdsourced RF Signals
Weipeng Zhuo, Ka Ho CHIU, **Jierun Chen**, Ziqi Zhao, S.-H. Gary Chan, Sangtae Ha, Chul-Ho Lee
IEEE International Conference on Distributed Computing Systems (ICDCS), 2023
7. Semi-supervised Learning with Network Embedding on Ambient RF Signals for Geofencing Services
Weipeng Zhuo, Ka Ho CHIU, **Jierun Chen**, Jiajie Tan, Edmund Sumpena, Sangtae Ha, S.-H. Gary Chan, Chul-Ho Lee
IEEE International Conference on Data Engineering (ICDE), 2023

WORKING EXPERIENCE

Microsoft Research Asia, Beijing

Research intern on foundation models, supervised by Fangyun Wei

June 2023 - current

Unity Drive Innovation, Shenzhen

SLAM algorithm intern, supervised by Ming Liu

Sep. 2018 - Jan. 2019

SELECTED AWARDS

- RedBird Academic Excellence Award, HKUST, 2022
- Postgraduate Scholarship, HKUST, 2019-2023
- Outstanding Graduate, ZJU, 2018
- Scholarship for Excellence in Research and Innovation, ZJU, 2017
- 1st prize in Nanjiang Lebo Cup Provincial Robot Competition (ranked 1/62), 2017
- 1st prize in National Undergraduate Electronic Design Contest (ranked 3/109 in Zhejiang Division), 2017
- Scholarship for Outstanding Merits, ZJU, 2015, 2017
- Excellent Student Awards, ZJU, 2015, 2017

TEACHING ASSISTANT

- COMP 2012H Honors Object-Oriented Programming and Data Structures, Fall 2022
- COMP 4911/6613D/ENTR4911 IT Entrepreneurship, Fall 2021
- COMP 4021 Internet Computing, Fall 2020
- COMP 4611 Design and Analysis of Computer Architectures, Spring 2020

ACADEMIC SERVICES

Reviewer: CVPR 2023, ICCV 2023, UbiComp 2023, BMVC 2023, INFOCOM 2020 – 2023, BMVC 2020 – 2021

SKILLS

- Programming: Python, C/C++, Matlab, HTML, CSS, JavaScript.
- Tools: PyTorch, LaTeX, Unix, Git, Photoshop, ROS, SolidWorks.
- Languages: English (Proficient), Mandarin (Native), Cantonese (Proficient), Teochew (Native).