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 efficient neural network design, foundation models, multi-modal learning, image and video processing, and deep learning.

* denotes equal contribution.

1. Divide and Distill: An Accurate, Fast, and Data-efficient Knowledge Distillation Framework
   Shiu-hong Kao*, **Jierun Chen***, 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. 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

4. 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

5. 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

6. 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

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

WORKING EXPERIENCE

Microsoft Research Asia, Beijing *June 2023 - current*
Research intern on foundation models, supervised by Fangyun Wei

Unity Drive Innovation, Shenzhen *Sep. 2018 - Jan. 2019*
SLAM algorithm intern, supervised by Ming Liu

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 (Intermediate), Teochew (Native).