

# JIERUN CHEN

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🔍 Research Interest: AIGC, Vision Language Models, Efficient AI, Compression, and Acceleration

## EDUCATION

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- The Hong Kong University of Science and Technology** *Sep 2019 - Jan 2025*  
*Ph.D. in Computer Science and Engineering*  
*Supervisor: Shueng-Han Gary Chan*
- Zhejiang University** *Sep 2014 - June 2018*  
*B.Eng in Electrical Engineering and Automation, GPA: 3.8 / 4.0, Top 15%*  
*High Distinction from Edison Experimental Class*
- Singapore University of Technology and Design** *Sep 2016 - Dec 2016*  
*Exchange Student in Engineering Product Design, GPA: 5.0 / 5.0, Top 3%*

## WORKING EXPERIENCE

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- Snap Research, Los Angeles** *Feb 2024 - Aug 2024*  
*Research intern on efficient text-to-image models, supervised by Jian Ren and Anil Kag*
- Microsoft Research Asia, Beijing** *June 2023 - Feb 2024*  
*Research intern on multimodal large models, supervised by Fangyun Wei*
- Unity Drive Innovation, Shenzhen** *Sep 2018 - Jan 2019*  
*SLAM algorithm intern, supervised by Qinghai Liao*

## PUBLICATIONS

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- SnapGen: Taming High-Resolution Text-to-Image Models for Mobile Devices with Efficient Architectures and Training  
**Jierun Chen\***, Dongting Hu\*, Xijie Huang\*, Huseyin Coskun, Arpit Sahni, Aarush Gupta, Anujraaj Goyal, Dishani Lahiri, Rajesh Singh, Yerlan Idelbayev, Junli Cao, Yanyu Li, Kwang-Ting Cheng, S.-H. Gary Chan, Mingming Gong, Sergey Tulyakov, Anil Kag, Yanwu Xu, Jian Ren  
In submission, 2024
  - Revisiting Referring Expression Comprehension Evaluation in the Era of Large Multimodal Models  
**Jierun Chen\***, Fangyun Wei\*, Jinjing Zhao, Sizhe Song, Bohuai Wu, Zhuoxuan Peng, S.-H. Gary Chan, Hongyang Zhang  
In submission, 2024
  - FasterKD: Disentangling Inter-block Optimization for Efficient Knowledge Distillation  
Shiu-hong Kao\*, **Jierun Chen\***, S.-H. Gary Chan  
In submission, 2024
  - AsCAN: Asymmetric Convolution-Attention Networks for Efficient Recognition and Generation  
Anil Kag, Huseyin Coskun, **Jierun Chen**, Junli Cao, Willi Menapace, Aliaksandr Siarohin, Sergey Tulyakov, Jian Ren  
NeurIPs, 2024
  - Run, Don't Walk: Chasing Higher FLOPS for Faster Neural Networks 🏆 **700+ stars**  
**Jierun Chen**, Shiu-hong Kao, Hao He, Weipeng Zhuo, Song Wen, Chul-Ho Lee, S.-H. Gary Chan  
CVPR, 2023

6. TVConv: Efficient Translation Variant Convolution for Layout-aware Visual Processing  
**Jierun Chen**, Tianlang He, Weipeng Zhuo, Li Ma, Sangtae Ha, S.-H. Gary Chan  
CVPR, 2022
7. Joint Demosaicking and Denoising in the Wild: The Case of Training Under Ground Truth Uncertainty  
**Jierun Chen**, Song Wen, S.-H. Gary Chan  
AAAI, 2021
8. Target-agnostic Source-free Domain Adaptation for Regression Tasks  
Tianlang He, Zhiqiu Xia, **Jierun Chen**, Haoliang Li, S.-H. Gary Chan  
ICDE, 2024
9. CP-NeRF: Conditionally Parameterized Neural Radiance Fields for Cross-scene Novel View Synthesis  
Hao He, Yixun Liang, Shishi Xiao, **Jierun Chen**, Yingcong Chen  
Pacific Graphics, 2023
10. 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  
ICDCS, 2023
11. 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  
ICDE, 2023

## PATENT

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US patent, Ref.: IP.PA.01826, IIL Ref.: P2651US00, “Run, Don’t Walk: Chasing Higher FLOPS for Faster Neural Networks”

## SELECTED AWARDS

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- 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

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- 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

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**Conference Reviewer:** ICLR, CVPR, ECCV, ICCV, UbiComp, BMVC, ACCV, INFOCOM

**Journal Reviewer:** IJCV, TIM

## **SKILLS**

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