

# PENG Zhuoxuan 彭卓轩

zpengac@cse.ust.hk | pzx200420@live.com | +86 18207145082 | +852 51226607 | [Homepage](#)

## Education

- The Hong Kong University of Science and Technology** 2024-Present  
Ph.D. in Computer Science and Engineering  
Supervisor: [Prof. CHAN Shueng Han Gary](#)
- The Hong Kong University of Science and Technology** 2022-2024  
M.Phil. in Computer Science and Engineering  
Supervisor: [Prof. CHAN Shueng Han Gary](#)  
CGA: 3.9/4.3
- The Hong Kong University of Science and Technology** 2018-2022  
B.Sc. in Computer Science (Double majored in Mathematics)  
CGA: 3.7/4.3 (First Class Honor Graduation)

## Research Interest

3D Human Sensing (LiDAR, mmWave) / Human Action Recognition / Human Pose Estimation / Crowd Counting / Video Understanding

## Publications

- [CVPR2026] Expanding mmWave Datasets for Human Pose Estimation with Unlabeled Data and LiDAR Datasets** 2026.6  
*Zhuoxuan Peng, Boan Zhu, Xingjian Zhang, Wenyang Li, Gary S.-H. Chan*  
Preprint: <https://arxiv.org/abs/2603.14507>  
Github: <https://github.com/Shimmer93/EMDUL>
- [CVPR2025 Workshop] Revisiting Referring Expression Comprehension Evaluation in the Era of Large Multimodal Models** 2025.6  
*Jierun Chen, Fangyun Wei, Jinjing Zhao, Sizhe Song, Bohuai Wu, Zhuoxuan Peng, S.-H. Chan, Hongyang Zhan*  
Preprint: <https://arxiv.org/abs/2406.16866>
- [CVPR2024] Single Domain Generalization for Crowd Counting** 2024.6  
*Zhuoxuan Peng, Gary S.-H. Chan*  
Preprint: <https://arxiv.org/abs/2403.09124>  
Github: <https://github.com/Shimmer93/MPCount>
- [ECCV2022 Workshop] CounTr: End-to-end Single Image Crowd Counting with Transformer** 2022.10  
*Haoyue Bai, Hao He, Zhuoxuan Peng, Tianyuan Dai, Gary S.-H. Chan*  
DOI: [https://doi.org/10.1007/978-3-031-25075-0\\_16](https://doi.org/10.1007/978-3-031-25075-0_16)

## Work Experience

- MSRA Research Intern: High-Quality Human Speaking Video Generation** 2025.10-2025.12  
Mentor: Mr. LI Chong  
I worked on high-quality human video generation.
- GZPI Part-Time Intern: Detection-based Object Counting in Huge Images** 2025.3-2025.7  
Coworker: [Mr. HU Xin](#)  
I developed a system for detection-based object counting, which was employed to count geese, rubbish, etc., in super-huge drone-captured images.
- Manycore Inc. Research Intern: Sketch-based Modeling Using Geometric Constraints** 2022.5-2022.8

Supervisor: Dr. ZHOU Zihan

I worked on 3D reconstruction of hand-drawn wireframes based on geometric constraints. The study aimed to utilize neural networks to learn geometric constraints (parallel lines, perpendicular lines, coplanar lines, etc.) in hand-drawn wireframes and reconstruct credible 3D models accordingly.

### Teaching Assistant

COMP2011: Programming with C++	Expected 2025.9-2025.12
COMP5911: Entrepreneurial Me	2025.2-2025.5
COMP2011: Programming with C++	2023.9-2023.12
COMP4321: Search Engines for Web and Enterprise Data	2023.2-2023.5

### Selected Awards

HKUST: Postgraduate Scholarship	2022-Present
HKUST: First Class Honor Graduation	2022
HKUST: The Most Adorable Idea Award in HackUST2021	2021
HKUST: Dean's List	2018-2021
HKUST: University's Scholarship Scheme for Continuing Undergraduate Students	2018-2019

### Academic Services

**Reviewer:** AAAI (26), CVPR (25), TNNLS (25), TPAMI (24), TIP (25), TMM (24), INFOCOM (22, 23, 24), MICCAI (24)

### Skills

**Programming:** Python, Java, C++, JavaScript

**Tools:** PyTorch, LaTeX, Unix, Git, Django

**Languages:** English (Proficient), Japanese (Elementary), Mandarin (Native)

### Others

#### Excellent Creator on Zhihu

I write answers on Zhihu and am certified as an "Excellent creator" .

Personal Homepage: [https://www.zhihu.com/people/shi\\_mmer](https://www.zhihu.com/people/shi_mmer)