

# PENG Zhuoxuan 彭卓轩

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## 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

### [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

### 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)