

Zhangyang Qi (Alex Chi)

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[Education]

The University of Hong Kong (HKU), PhD in Computer Science Sep. 2022 - Jul. 2026(Exp)

- **Advisor:** Hengshuang Zhao and Yizhou Yu
- **Research Direction:** [Video Multimodal Large Model](#), [3D Scene Understanding](#), [Embodied AI](#)

Harbin Institute of Technology (HIT), Bachelor in Information Engineering Sep. 2018 - Jul. 2022

- **GPA:** 95.53/100 or 3.9706/4.0, **Rank:** 1/318

[Selected Publications]

[GPT4point](#): A Unified Framework for Point-Language Understanding and Generation

Z. Qi, Y. Fang, Z. Sun, X. Wu, T. Wu, J. Wang, D. Lin, H. Zhao [CVPR 2024 Highlight]

[GPT4Point++](#): Advancing Unified Point-Language Understanding and Generation

Z. Qi, Y. Fang, Z. Sun, X. Wu, T. Wu, J. Wang, D. Lin, H. Zhao [TPAMI 2025 (Minor Revision)]

[OCBEV](#): Object-Centric BEV Transformer for Multi-View 3D Object Detection

Z. Qi, J. Wang, X. Wu, H. Zhao [3DV 2024]

[GPT4Scene](#): Understand 3D Scenes from Videos with Vision-Language Models

Z. Qi, Z. Zhang, Y. Fang, J. Wang, H. Zhao [Arxiv 2025]

[Tailor3D](#): Customized 3D Assets Editing and Generation with Dual-Side Images

Z. Qi, Y. Yang, M. Zhang, L. Xing, X. Wu, T. Wu, D. Lin, X. Liu, J. Wang, H. Zhao [Arxiv 2024]

[Experience]

Shanghai AI Laboratory, Research Intern – Shanghai, China Jul 2022 – Until Now

- Research on **3D & video language models**, developing the *GPT4Point*, *GPT4Point++*, and *GPT4Scene*.
- Curated training data for [InternLM-XComposer](#) series and [V3Det](#) dataset.

Tencent PCG, Research Intern – Shenzhen, China Dec 2021 – May 2022

- Built CLIP-based cross-modal alignment via contrastive learning for image-text matching.
- Designed joint training paradigms enhancing embedding alignment in multimodal retrieval.

[Projects]

[Pointcept \(1.9K Stars\)](#): A popular Unified 3D perception toolkit. github.com/Pointcept/Pointcept

- **Point Transformer Series:** From PTv1 to PTv3, continuous optimization has made it a benchmark model in point cloud perception, published at top conferences such as CVPR and NeurIPS.
- **Broad Compatibility:** Supports diverse backbones (e.g., MinkUNet, SPVCNN, Swin3D) and tasks (e.g., segmentation, pretraining), with preprocessed datasets and code.
- **My main Responsibility:** object point cloud understanding, as well as the improvement of indoor scene datasets (ScanNet, ScanNet++) and algorithms.

[Awards]

- Hong Kong PhD Fellowship Scheme (HKPFS) 2022
- HKU Presidential Scholarship (HKUPS) 2022
- Top Ten Students of Harbin Institute of Technology 2021
- Top Ten students of Learning Stars of HIT 2021
- Top Ten Students of Honor School in HIT 2022
- Excellent graduate of HIT 2022
- China National Scholarship 2020
- The Third Prize of the National College English Contest 2020
- First Prize of Mathematical Contest in Modeling 2019
- First prize of the 11th National College Student Mathematics Competition 2019

Technologies & Service

- **Languages:** Python, PyTorch, Java, JavaScript
- **Academic Services:**
 - Conference Reviewer: CVPR (2024, 2025), ICCV 2025
- **Teaching Experience:**
 - *DASC7606: Deep Learning* (Graduate course) 2023, 2024 Spring, 2024 Fall
- **Foreign Languages:**
 - TOEFL iBT: 110 IELTS: 7.5 GRE: 330+4.0
 - Cantonese: Conversational proficiency