

2ND-YEAR CS GRADUATE STUDENT
Huazhong University of Science and Technology

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"Make it count."

Education

Huazhong University of Science and Technology (HUST)

Wuhan, China

MASTER OF SCIENCE (M.Sc.), COMPUTER SCIENCE, SCHOOL OF COMPUTER SCIENCE AND TECHNOLOGY

Sep. 2023 - Jun. 2026 (expected)

- Supervised by Prof. Xianzhi Li.
- GPA: 3.91 (3/158), First Prize Scholarship, Tencent Scholarship, Research & Innovation Scholarship, BYD Scholarship.

Shandong University (SDU)

Qingdao, China

BACHELOR OF ENGINEERING (B.ENG.), ARTIFICIAL INTELLIGENCE, SCHOOL OF COMPUTER SCIENCE AND TECHNOLOGY

Sep. 2019 - Jun. 2023

- Supervised by Prof. Mengbai Xiao, Institute of Intelligent Computing.
- GPA: 3.87 (88.7), Honours Degree (1/52), National Scholarship (Top 0.2% nationwide), Outstanding Thesis (Top 6 grads in CS, 2%).

Publication

[7] MoST: Efficient Monarch Sparse Tuning for 3D Representation Learning

CVPR 2025

Xu Han, Yuan Tang, Jinfeng Xu, Xianzhi Li †

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We introduce Monarch Sparse Tuning (MoST), the first reparameterization-based parameter-efficient fine-tuning (PEFT) method tailored for 3D
point cloud representation learning.

[6] Fancy123: One Image to High-Quality 3D Mesh Generation via Plug-and-Play Deformation

CVPR 2025

Qiao Yu, Xianzhi Li, Yuan Tang, **Xu Han**, Jinfeng Xu, Long Hu, Yixue Hao, Min Chen

GitHub

 We propose a SOTA framework for single-image-to-3D-mesh, leveraging 2D deformation, 3D deformation, and unprojection to resolve multiview inconsistency, low fidelity, and blurry coloration.

[5] SASep: Saliency-Aware Structured Separation of Geometry and Feature for Open Set Learning on Point Clouds

CVPR 2025

Jinfeng Xu, Xianzhi Li, Yuan Tang, **Xu Han**, Qiao Yu, Yixue Hao, Long Hu, Min Chen

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· We introduce Saliency-Aware Structured Separation (SASep), an open-set recognition method on 3D point cloud.

[4] More Text, Less Point: Towards 3D Data-Efficient Point-Language Understanding

AAAI 2025

Yuan Tang*, **Xu Han***, Xianzhi Li † , Qiao Yu, Jinfeng Xu, Yixue Hao, Long Hu, Min Chen (*equal contribution,

†CORRESPONDING AUTHOR)

GitHub

• We introduce a new task, 3D Data-Efficient Point-Language Understanding. Our proposed GreenPLM uses text data to compensate for the lack of 3D data, achieving superior 3D understanding with only 12% or even without 3D data.

[3] Mamba3D: Enhancing Local Features for 3D Point Cloud Analysis via State Space Model

ACM MM 2024

Xu Han*, Yuan Tang*, Zhaoxuan Wang, Xianzhi Li † (*equal contribution, † corresponding author)

GitHub

• We present Mamba3D, a state space model tailored for point cloud learning. Mamba3D surpasses existing methods in multiple tasks, achieving multiple SoTA, with only linear complexity.

[2] MiniGPT-3D: Efficiently Aligning 3D Point Clouds with Large Language Models using 2D Priors

ACM MM 2024

Yuan Tang, **Xu Han**, Xianzhi Li † , Qiao Yu, Yixue Hao, Long Hu, Min Chen († corresponding author)

GitHub

• We present MiniGPT-3D, an efficient and powerful 3D-LLM that aligns 3D points with LLMs using 2D priors. It has only 47.8 M learnable parameters and is trained in just 26.8h on a single RTX 3090.

[1] patchDPCC: A Patchwise Deep Compression Framework for Dynamic Point Clouds

AAAI 2024

Zirui Pan, Mengbai Xiao[†], **Xu Han**, Dongxiao Yu, Guanghui Zhang, Yao Liu ([†]corresponding author)

We propose patchDPCC to compress each frame of the point cloud video by divides frames into patch groups, and incorporate a feature transfer
module to refine the feature quality.

Experience

RESEARCH ASSISTANT, SUPERVISED BY PROF. MENGBAI XIAO.

Oct. 2020 - Jun. 2023

We propose a dynamic point cloud upsampling model to reduce the bandwidth consumption of point cloud video streaming. To accelerate
inference, we propose reducing inter-frame redundancy by aligning adjacent frames in feature space. This research won the **Outstanding Graduation Thesis Award** from Shandong University. We also applied this method to point cloud video compression, improving the quality
of point cloud features, which is accepted by **AAAI 2024**.

Honors & Awards

SCHOLARSHIPS

01/2025	BYD Scholarship, The only one in Dept. of CS, HUST	Wuhan, China
10/2024	Xiaomi Scholarship Nomination, HUST	Wuhan, China
10/2024	Research & Innovation Scholarship, HUST	Wuhan, China
04/2024	Tencent Scholarship, HUST	Wuhan, China
11/2023	First Prize Scholarship, HUST	Wuhan, China
10/2022	National Scholarship, Highest honor for undergraduates, top 0.2% nationwide	Qingdao, China
2021,2022	Huawei Scholarship , Two-year continuous	Qingdao, China
10/2022	Second Prize Scholarship, Top 10% in Department of Computer Science	Qingdao, China
10/2022	Research & Innovation Scholarship, Shandong University	Qingdao, China

AWARDS

07/2023	Outstanding Graduation Thesis Award , Top 6 graduates in Department of Computer Science	Qingdao, China
06/2023	Honours Bachelor Degree, 1/52	Qingdao, China
06/2023	Outstanding Graduates Award, Shandong University	Qingdao, China
2021,2022	Huawei-MOE (Ministry of Education) Future Star Award, Two-year continuous	Qingdao, China
11/2021	First Prize in China Undergraduate Mathematical Contest in Modeling, Top 0.6% in 45K teams	Qingdao, China

Skills___

Programming Python, C/C++, Shell, LaTeX

Languages Native in Chinese (Mandarin), Fluent in English

Tools PyTorch, Vim, Git, Blender, CUDA

Others Basketball (Multiple awards), Electric Guitar