

# Xu Han

1ST-YEAR CS GRADUATE STUDENT

Huazhong University of Science and Technology

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## 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.

### 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 (88.69), Bachelor Honours Degree (1/52), National Scholarship (Top 0.2% nationwide), Outstanding Thesis (Top 6 grads in CS).

## Publication

### [1] PeaTr: Efficient Point Cloud Sequence Upsampling via Feature Transfer

In Submission

HAOLIN JIN\*, XU HAN\*, YAO LIU, DONGXIAO YU, GUANGHUI ZHANG, MENGBAI XIAO (\*EQUAL CONTRIBUTION)

- By aligning adjacent point cloud frames in high-dimensional feature space to reduce inter-frame redundancy, PeaTr has achieved efficient point cloud video upsampling.

### [2] patchDPCC: A Patchwise Deep Compression Pipeline for Dynamic Point Clouds

In Submission

ZIRUI PAN, MENGBAI XIAO, DONGXIAO YU, GUANGHUI ZHANG, XU HAN

- 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

### Institute of Intelligent Computing, Shandong University

Qingdao, China

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 was submitted to ACM Multimedia 2023 and won the Outstanding Graduation Thesis Award from Shandong University.

## Honors & Awards

### SCHOLARSHIPS

- 10/2022 National Scholarship, Highest honor for undergraduates, top 0.2% nationwide
- 2021,2022 Huawei Scholarship, Two-year continuous
- 10/2022 Second Prize Scholarship, Top 10% in Department of Computer Science
- 10/2022 Second Prize Research and Innovation Scholarship, Shandong University
- 10/2020 Third Prize Scholarship, Shandong University

Qingdao, China

Qingdao, China

Qingdao, China

Qingdao, China

Jinan, China

### AWARDS

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

Qingdao, China

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## Skills

### Programming

C/C++, Python, Shell, LaTeX, JAVA, Matlab, HTML

### Languages

Native in Chinese (Mandarin), Fluent in English

### Tools

PyTorch, Numpy, Tensorflow, OpenGL, OpenCV, Vim, Git, Blender, Unreal Engine, Unity, CUDA

### Others

Basketball (Multiple awards), Electric Guitar