

# 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.
- GPA: 3.91 (2/160), First Prize 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).

## Publication

### [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

### 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 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

- 11/2023 **First Prize Scholarship**, HUST
- 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 **Research and Innovation Scholarship**, Shandong University

Wuhan, China  
Qingdao, China  
Qingdao, China  
Qingdao, China  
Qingdao, China

### AWARDS

- 07/2023 **Outstanding Graduation Thesis Award**, Top 6 graduates in Department of Computer Science
- 06/2023 **Honours Bachelor 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 in China Undergraduate Mathematical Contest in Modeling**, Top 0.6% in 45K teams

Qingdao, China  
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## Skills

- Programming Languages** C/C++, Python, Shell, LaTeX, JAVA, Matlab, HTML
- Tools** PyTorch, Numpy, Tensorflow, OpenGL, OpenCV, Vim, Git, Blender, Unreal Engine, Unity, CUDA
- Others** Basketball (Multiple awards), Electric Guitar