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	*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 and 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	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