Chenyu ZHAO *Ph.D*

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Research Interests

My research interests focus on 3D computer vision, particularly trustworthy 3D representation and perception methods for real-world applications.

Education

2025 – 2029 **Wuhan University**
Doctor of Philosophy
The State Key Lab. LIESMARS
Advisor: Prof.Xianwei Zheng

2023 – 2025 **Wuhan University**
Master of Science
The State Key Lab. LIESMARS
Avg. Score: 91.97, GPA: 3.93/4.0

2019 – 2023 **Wuhan University**
Bachelor of Science
School of Mathematics and Statistics
Major in Statistics, GPA: 3.71/4.0

Publications

Real-Time 3D Object Detection with Inference-Aligned Learning

AAAI, 2026 (Oral)

Zhao, C., *Zheng, X., Xia, Z., Yue, L., & Xue, N.*

Addressed the prevalent training-inference gap in dense 3D object detection. SR3D is a simple yet effective framework that prioritizes robust geometric perception and ranking awareness for reliable 3D detection.

Fine-Grained Aerial Multiview Stereo Matching meets DINOv3

In Preparation

Ke, Y.,* ***Zhao, C.****, & Zheng, X.*

Enhanced Aerial Multi-View Stereo Matching task by integrating rich structural priors from the pre-trained model DINOv3. Designed an extraction and optimization module that fuses structural priors, and proposed a novel asymmetric uncertainty sampling strategy.

Academic Activities

The 40th Annual AAAI Conference on Artificial Intelligence (AAAI)
2026.1 — Singapore

The 3rd China 3D Vision Conference (China 3DV)
2024.4 — Shenzhen, China

Internships

Big Data Institute *Wuhan University*
May 2022 – March 2023 — Wuhan, China

Focused on control in corporate ownership networks, developing a quantitative analysis based on the Banzhaf index, and formulating core concepts and analytical expressions by graph-theoretic.

Projects

3D Digital Modeling of Indoor Spatial Entities

Main Contributor

Supported by the Wuhan University – Huawei Spatial Information Technology Innovation Laboratory Research Project, 2023 – 2024

Delivered the SM500 indoor 3D semantic entity model database. Designed and implemented a 3D semantic entity modeling algorithm for preserving structural integrity of indoor entities.

Multimodal Generative Modeling and Rendering Techniques for Historic and Cultural Cities

Participant

Supported by the National Key Research and Development Program of China, 2025 – 2028

Contributed to generative modeling research for historical and cultural districts leveraging air–ground cross-perspective data. Achieved high-fidelity modeling of narrow alleys via cross-view data fusion and generative video synthesis.

Awards and Honors

2022 **Class B** University Scholarship
2022 **Outstanding Student**, Wuhan University
2021 **Class C** University Scholarship
2021 **Third Prize**, 13th National Undergraduate Mathematical Contest
2021 **Bronze Award**, 7th China International "Internet+" Innovation and Entrepreneurship Competition (Hubei Province)
2020 **Outstanding Activity Organizer**, Wuhan University
2020 **Active Participant in Student Associations**, Wuhan University