Wenkang Zhang

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EDUCATION

B.S. in EE, Shanghai Jiao Tong University　　　　　　　　　　　　　　2022.9 – 2026.6 (expected)
GPA 4.0/4.3, Major Rank 1/132, CET6 587

COURSES

Major Courses: Linear Algebra (100), C++ Programming (97), Machine Learning (96), Data Structure(94)

AWARDS AND SCHOLARSHIPS

National Scholarship　　　　　　　　　　　　　　　　　　　　　　　　　　　　2024
Award for 0.2% of students, the highest national-level scholarship

Shanghai Scholarship　　　　　　　　　　　　　　　　　　　　　　　　　　　　2023
Award for 0.2% of students in Shanghai city.

Zhiyuan Honors Scholarship　　　　　　　　　　　　　　　　　　　　　　2023, 2024
Award for top students majoring in STEM.

2nd Prize in the National College Mathematics Competition　　　　　　　　2023
Award for undergraduate students standing out in CMC.

PROJECT EXPERIENCE

Research Assistant　　　　　　　　　　　　　　　　　　　　　　　　2024.9 – 2025.4
Advised by Zhengxue Cheng and Li Song　　　　　　　　　　　　　　　　　*SJTU, SH*
- 3D/4D Reconstruction via Gaussian Splatting, Learning-based Compression, Generative Simulation for Robotics.
- One paper submitted to ACM MM 25 as the first author, on Feedforward 4DGS Compression. (*Keywords: Free-viewpoint video, 3D Gaussian Splatting, Dynamic scene compression, Rate-distortion optimization*)

Zhiyuan Future Scholar Project　　　　　　　　　　　　　　　　　2024.8 – 2025.2
Advised by Jianping He　　　　　　　　　　　　　　　　　　　　　　　　*SJTU, SH*
- Submersible Development, Pursuit-Evasion Problem using DRL.
- Mainly responsible for embedded development on RoboMaster C board (STM32), focusing on engineering.
- Achieve stable depth control and 6DOF constant-speed movement underwater.

SJTU PRP Project　　　　　　　　　　　　　　　　　　　　　　　　2023.2 – 2023.8
Advised by Xinwu Liang　　　　　　　　　　　　　　　　　　　　　　　　*SJTU, SH*
- Robotic Grasping Detection using DL.
- Introducing CA and GS-IRes module to GR-ConvNet, and fine-tuning on Cornell dataset.
- Detection accuracy improved by 4% ; Rated as A (top 10% school-level).

EXTRACURRICULAR EXPERIENCE

Computer Science Summer School　　　　　　　　　　　　　　　　　　　　　2024.7
PKU-SJTU-THU-NUDT　　　　　　　　　　　　　　　　　　　　　　　　　*PKU, BJ*
- Advanced topics in CS, including Embodied Intelligence.
- Visit to MSRA, Tencent and Huawei.

Summer School on Computational Mechanics and Artificial Intelligence　　2023.8
Pilot Programme 2.0　　　　　　　　　　　　　　　　　　　　　　　　　　　*ZJU, HZ*
- Physics-Informed Neural Network for PDE Solving.
- Mechanical Simulation using Taichi.

SKILLS AND INTERESTS

Skills: python, C++, bash, matlab; pytorch, pytorch3d, mujoco, colmap, scrapy, taichi, compressai, numpy, pandas
Interests: 3D Vision, Embodied AI, World Model; Chinese Chess, Music, Creative Writing