

Zhifei Yang

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Education

B.Sc. in Geographical Information Science Minor in Artificial Intelligence

School of Earth and Space Science, Peking University

2023 – Present (Expected graduation: 2027)

GPA: 3.59/4.0

Core Courses: Calculus I & II (90+), Probability and Statistics (93), Linear Algebra (86), Visual Computing(Computer Graphics) (86.5), Data Structures and Algorithms (85), Introduction to Database (88)

Publications

- **G4Splat: Geometry-Guided Gaussian Splatting with Generative Prior.**

Junfeng Ni, Yixin Chen[✉], Zhifei Yang, Yu Liu, Ruijie Lu, Song-Chun Zhu, Siyuan Huang[✉]
arXiv:2510.12099, 2025.

Research Experience

Undergraduate Research Assistant

Advisor Siyuan Huang, Yixin Chen

Mar 2025 – Present

Beijing Institute for General Artificial Intelligence

- Conducted research on 3D understanding and reconstruction.
- Applied neural representations to achieve fast, geometry-consistent reconstruction and generation.
- One paper submitted to ICLR2026.

Projects

Poisson-Disk Sampling Algorithm

Course Project

- Implemented Poisson-disk sampling algorithm.
- Designed and conducted experiments to compare its speed and sampling quality against traditional sampling methods.

Character Controller Based on Motion Matching

Course Project

- Built a motion matching database.
- Developed a character controller that responds dynamically to user inputs.

Skills

Programming Python, C/C++

Machine Learning Deep learning frameworks (PyTorch, JAX), foundational ML concepts

Mathematics Strong mathematical background in calculus and linear algebra

Tools Git, L^AT_EX, Linux

Languages English (fluent), Chinese (native)

Awards

The Third Prize of PKU Scholarship

Peking University, 2024

Last updated: December 16, 2025