

# Zhifei Yang

Beijing, China

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## Education

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### 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

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- **G4Splat: Geometry-Guided Gaussian Splatting with Generative Prior.**  
Junfeng Ni, Yixin Chen<sup>✉</sup>, **Zhifei Yang**, Yu Liu, Ruijie Lu, Song-Chun Zhu, Siyuan Huang<sup>✉</sup>  
arXiv:2510.12099, 2025.

## Research Experience

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### Undergraduate Research Assistant

Beijing Institute for General Artificial Intelligence

Advisor Siyuan Huang, Yixin Chen

Mar 2025 – Present

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

## Projects

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### 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

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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 <sup>A</sup> T <sub>E</sub> X, Linux
Languages	English (fluent), Chinese (native)

## Awards

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The Third Prize of PKU Scholarship

Peking University, 2024

*Last updated: December 16, 2025*