

Sitong Wang

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Ph.D. Student, Nanjing University, Suzhou, China

Last Update: Sep 21, 2026

EDUCATION

- **South China University of Technology** Sep. 2022 - Jun. 2026
Undergraduate major in Artificial Intelligence, School of Future Technology Guangzhou, China
 - GPA: 3.82/4.00
 - Core Curriculums: Linear Algebra (95), Complex Analysis (93), Introduction to Artificial Intelligence (98), Data Structure (92), Machine Learning (91), Discrete Mathematics (92), Digital Image Processing (95), Digital Signal Processing (90), Digital System Designing (92), Reinforcement Learning (94), Comprehensive Artificial Intelligence System Designing (92), Graduation Project (Excellent)

EXPERIENCE

- **South China University of Technology**  Oct. 2024 - Apr. 2026
Undergraduate Intern Guangzhou, China
 - We propose **TraGraph-GS**, a novel view synthesis method based on trajectory graphs that is capable of high-quality rendering for arbitrarily large-scale scenes. The paper has been accepted by IEEE Transactions on Pattern Analysis and Machine Intelligence and available [HERE](#).

PROJECTS

- **MetaSCUT: Large-Scale Scene Simulation based on 3DGS and Physics Engine** Dec. 2024 - Jan. 2025
Keywords: 3D Scene Reconstruction, Physical Simulation
 - Develop the "MetaSCUT" framework for physical simulation in large-scale scene based on [3D Gaussian Splatting](#) and Universal Physics Engine.
 - Implement high-quality reconstruction of [SCUT-GZIC](#) scenes by using self-provided aerial datasets and 3D Gaussian Splatting techniques.
 - Integrate Blender for dynamic interaction simulation, including vehicle physics and robotic arm control.
 - Achieve efficient mesh reconstruction and rendered images with [Surface-Aligned Gaussian Splatting \(SuGaR\)](#), outperforming traditional methods in terms of detail and accuracy.
 - The code of "MetaSCUT" project page is available here: [\[G\]](#)

PUBLICATIONS AND PATENTS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [J] Xiaohan Zhang[†], **Sitong Wang[†]**, Yushen Yan, Yi Yang, Mingda Xu, and Qi Liu^{*}. (2026). **TraGraph-GS: Trajectory Graph-based Gaussian Splatting for Arbitrary Large-Scale Scene Rendering**. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, Vol. 48, no. 10, pp. 13720-13732. DOI: 10.1109/TPAMI.2026.3709368

SKILLS

- **Programming:** Python, C++, Matlab, VHDL, Html
- **Writing:** Latex, Markdown, Microsoft Word

HONORS AND AWARDS

- **The Third-prize Scholarship** Dec. 2023, Dec. 2024, Dec. 2025
South China University of Technology
- **First-prize of 2025 "Meet Xiao Mian" Innovation Scholarship** Jul. 2025
South China University of Technology
- **Third-prize of "Future Technology Taihu Innovation Award"** Jun. 2025
School of Future Technology, South China University of Technology
- **4th place in "3D Reconstruction From Monocular Multi-Food Images" competition** May. 2025
CVPR 2025 MetaFood Workshop
- **First-prize in Guangdong of Contemporary Undergraduate Mathematical Contest in Modeling** Dec. 2024
China Society for Industrial and Applied Mathematics
- **Second-prize in the southern division of MathorCup Mathematics Application Challenge** Apr. 2024
Chinese Society of Optimization, Overall Planning and Economic Mathematics
- **Finalist of Mathematical Contest in Modeling (MCM)** Feb. 2024
Consortium for Mathematics and its Applications (COMAP)

CERTIFICATIONS

- South China University of Technology - Baidu talent training class: Graduated Student *Sep. 2024*
- College English Test Band6: 542 *Dec. 2023*
- College English Test Band4: 613 *Mar. 2023*

COLLABORATORS

1. Hao Zhu

Associate professor and Zhicheng Scholar at the School of Intelligence Science and Technology, Nanjing University.
Member of the Physical Intelligence Lab (NJU-PIL, previously NJU-3DV) and the CITE Lab at Nanjing University.

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Relationship: Ph.D. Advisor

2. Qi Liu

Professor and Doctoral supervisor, School of Future Technology, South China University of Technology.
IEEE Senior Member, Member of the Youth Working Committee of China Society of Image and Graphics.

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Relationship: Undergraduate Research Advisor

3. Xiaohan Zhang

Ph.D. student of Prof. Qi Liu, Electrical and Computer Engineering, South China University of Technology.

Email: ftzhangxiaohan@mail.scut.edu.cn

Relationship: Undergraduate Research Mentor