Sitong Wang

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South China University of Technology, Guangzhou, China

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EDUCATION

- **South China University of Technology** *Sep. 2022 - present*
  Undergraduate major in Artificial Intelligence, School of Future Technology, Guangzhou, China
  - GPA: 3.79/4.00
  - Core Curriculums: Linear Algebra (95), Complex Analysis (93), Introduction to Artificial Intelligence (98), Data Structure (92), Machine Learing (91), Discrete Mathematics (92), Digital Image Processing (95), Digital Signal Processing (90), Digital System Designing (92), Reinforcement Learning (94).

EXPERIENCE

- **South China University of Technology [🌐]** *Oct. 2024 - Jun. 2025*
  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 is currently under review at 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: [🐙]

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. **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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   Homepage: https://drliuqi.github.io/
   Relationship: Research Mentor

2. **Xiaohan Zhang**
   Doctoral student of Prof. Qi Liu, Electrical and Computer Engineering, South China University of Technology.
   Email: ftzhangxiaohan@mail.scut.edu.cn
   Relationship: Collaborator