Chih-Hai Su

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GitHub: https://github.com/Su-Terry

Education

- **National Yang Ming Chiao Tung University** Taiwan
  B.S. in Computer Science; GPA: 3.95/4.30 — Ph.D. Student in Computer Science *Sep 2021 – Present*
  - **Doctoral Research**: Continuing in the same institution as a PhD student, focusing on computational photography, 3D vision, and neural rendering.

Publications

- **BoostMVSNeRFs: Boosting MVS-based NeRFs to Generalizable View Synthesis in Large-scale Scenes**
  Chih-Hai Su, Chih-Yao Hu, Shr-Ruei Tsai, Jie-Ying Lee, Chin-Yang Lin, Yu-Lun Liu
  Proceedings of **SIGGRAPH 2024**

Experience

- **Amazon Development Center Taiwan Limited** Hsinchu, Taiwan
  Applied Scientist Intern *Feb 2025 – Aug 2025*
  - **CoRo Team**: Researched Digital Twin Simulation in the **CoRo Team**, contributing to a research paper project.
- **NYCU Computational Photography Lab** Hsinchu, Taiwan
  PhD Student & Former Undergraduate Researcher *Feb 2023 – Present*
  - **Research Focus**: Computational photography, 3D vision, and neural rendering.
  - **Conference Publications**: Published "BoostMVSNeRFs" at **SIGGRAPH 2024**.
  - **Undergraduate Contribution**: Studied NeRF and MVS for unified 3D scene reconstruction, leading to conference papers.
- **Phison Electronics Corporation** Miaoli, Taiwan
  Machine Learning Intern *May 2024 – Jan 2025*
  - **GPU–SSD Communication**: Developed memory-efficient communication methods and evaluation tools.
  - **Multimodal LLMs**: Built applications including OCR and audio processing.
- **NYCU Computational Photography Lab** Hsinchu, Taiwan
  System Administrator *May 2023 – Present*
  - **System Management**: Configured and maintained LDAP, NAS, and NFS services for secure and seamless lab operations.

Awards & Achievements

- **NYCU CS Bachelor's Project Competition**: Special Distinction Award and First Place, 112th Academic Year, 1st Semester, National Yang Ming Chiao Tung University.
- **2023 ICPC Asia Taoyuan Regional Contest**: Bronze Award.
- **2023 AI Workshop Best Project Award**: Top 2 groups in the class.

Projects

- **Undergraduate Research Project Scholarship, Ministry of Science and Technology (Project No. 113-2813-C-A49-013-E)**: Conducted research on novel view synthesis using neural radiance fields.

Programming Skills

- **Languages**: C/C++, C#, Python, Bash **Technologies**: Git, Docker, PyTorch, DeepSpeed, AWS

Extracurricular Activities

- **University Men's Volleyball Team** Aug 2021 – Present
  Member