Yifan Yang

Gender: Male

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Education

South China University of Technology **Software Engineering** **3D Reconstruction**

Research and Internship

1. **ICCV 2023 Oral**: *Cross-Ray Neural Radiance Fields for Novel-view Synthesis from Unconstrained Image Collections* (First Author)
2. **CVPR 2024**: *HiLo: Detailed and Robust 3D Clothed Human Reconstruction with HF and LF Information of Parametric Models* (First Author)
3. **MICCAI 2021**: *Distinguishing differences matters: Focal contrastive network for peripheral anterior synechiae recognition* (First Author)
4. **Ophthalmology**: *Digital gonioscopy based on three-dimensional anterior-segment OCT: an international multicenter study* (Co-First Author)
5. **TCSVT**: *Disparity-Guided Light Field Synthesis from a Single-view Image* (Major Revision, First Author)

Summary: The primary research focuses on multi-view 3D generation and understanding, involving specific tasks such as 3D reconstruction of digital humans and novel view synthesis in papers 1, 2, and 3. Papers 3 and 4 detail algorithms including multi-view understanding and depth metric learning. Additionally, several papers have been published in prestigious conferences such as CVPR and ICML.

Company for Internship	Project Responsibilities	Time
CVTE Central Research Institute	Responsible for research on light field reconstruction algorithms, submitted one paper to TCSVT for major revision.	Apr. 2021 – Aug. 2021
CVTE Central Research Institute	Led the research on NeRF in the wild algorithms, published one ICCV Oral paper.	Sep. 2022 – Feb. 2023
CVTE Digital Human Team	Conducted research on 3D clothing human reconstruction algorithms, published one paper in CVPR.	Feb. 2023 – Aug. 2023

Summary: As the principal investigator at CVTE, I am responsible for three research tasks, each focusing on 3D reconstruction under data-constrained conditions. As the first author, I have published papers in CCF-A journals related to this work. These research tasks are dedicated to the reconstruction of 3D virtual digital humans and 3D scenes, which have significant implications for interconnectivity.

Algorithm Competitions

MICCAI 2019: Angle Closure Glaucoma Evaluation Challenge on Angle Closure Classification. Runner-up

Comprehensive Skills

Passed CET-6 (College English Test-6); exempted from English courses at the master's and doctoral levels. Received the Outstanding Student Leader Award from South China University of Technology and several honors at the college level.