Shuo Chen

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EDUCATION

Tsinghua University   Sept. 2020 - Jun. 2024
B.S. in Mathematics and Physics

Marslab, Tsinghua University   July. 2024 - Present
Internship in 3D generation, advised by Prof. Hang Zhao

TSAIL, Tsinghua University   Oct. 2023 - Jun. 2024
Internship in 3D generation, advised by Prof. Hang Su

Computational Cognition, Vision, and Learning, JHU   Jun. 2023 - Dec. 2023
Internship in 3D VQA, advised by Prof. Alan L. Yuille

PUBLICATIONS

**CRM: Single Image to 3D Textured Mesh with Convolutional
Reconstruction Model**   Oct. 2023 - Mar. 2024
Wang, Y Wang, Y Chen, C Xiang, **S Chen**, D Yu, C Li, H Su, J Zhu *arXiv:2403.05034* (**ECCV2024**)
- CRM is a feed-forward model can generate a high-fidelity textured mesh from an image in just 10 seconds, without any test-time optimization.

**Freeplane: Unlocking Free Lunch in Triplane-Based Sparse-View
Reconstruction Models**   Mar. 2024 - Jun. 2024
W Sun, Z Wang, **S Chen**, Y Wang, Z Chen, J Zhu, J Zhang *arXiv:2406.00750*
- We found that incorporating bilateral filtering into the triplne in triplane-based feed-forward model(like LRM, CRM, InstantMesh) can mitigate reconstruction artifacts without losing to much details caused by inconsistencies in multi-view image generation.

**Compositional 4D Dynamic Scenes Understanding with
Physics Priors for Video Question Answering**   Jun. 2023 - Jan. 2024
X Wang, W Ma, A Wang, **S Chen**, A Kortylewski, A Yuille *arXiv:2406.00622*
- Develop a physics simulation tool that generates realistic scene images and enables pose estimation and scene representation for relational and temporal reasoning.

MISC.

Teaching TA, Calculus A at Tsinghua University   Fall 2022, Fall 2023

Honors
- **First Level Scholarship of Tsinghua University**   October 2021
- **Second Level Scholarship of Tsinghua University**   October 2022

Reviewer CVPR2024, Neurips2024, AAAI2025, ICLR2025