

Shuo Chen

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EDUCATION

Tsinghua University B.S. in Mathematics and Physics	Sept. 2020 - Jun. 2024
Marslab, Tsinghua University Internship in 3D generation, advised by Prof. Hang Zhao	July. 2024 - Present
TSAIL, Tsinghua University Internship in 3D generation, advised by Prof. Hang Su	Oct. 2023 - Jun. 2024
Computational Cognition, Vision, and Learning, JHU Internship in 3D VQA, advised by Prof. Alan L. Yuille	Jun. 2023 - Dec. 2023

PUBLICATIONS

DimensionX: Create Any 3D and 4D Scenes from a Single Image with Controllable Video Diffusion arXiv:2411.04928 GitHub ★: 735	July. 2024 - Nov. 2024
Wenqiang Sun*, Shuo Chen* , Fangfu Liu*, Zilong Chen, Yueqi Duan, Jun Zhang, Yikai Wang	
<ul style="list-style-type: none">• Create 3D and 4D scenes from a single image with controllable video diffusion.	
DreamComposer++: Empowering Diffusion Models with Multi-View Conditions for 3D Content Generation	Jun. 2024 - Oct. 2024
Yunhan Yang*, Shuo Chen* , Yukun Huang*, Xiaoyang Wu, Yuan-Chen Guo, Hengshuang Zhao, Tong He, Xihui Liu	
<ul style="list-style-type: none">• A flexible multi-view conditioning framework that enhances existing image and video diffusion models for scalable novel view synthesis.	
CRM: Single Image to 3D Textured Mesh with Convolutional Reconstruction Model arXiv:2403.05034 (ECCV2024) GitHub ★: 578	Oct. 2023 - Mar. 2024
Wang, Y Wang, Y Chen, C Xiang, S Chen , D Yu, C Li, H Su, J Zhu	
<ul style="list-style-type: none">• A feed-forward model that generates high-quality textured meshes from an image in 10 seconds.	
Freeplane: Unlocking Free Lunch in Triplane-Based Sparse-View Reconstruction Models arXiv:2406.00750	Mar. 2024 - Jun. 2024
W Sun, Z Wang, S Chen , Y Wang, Z Chen, J Zhu, J Zhang	
Compositional 4D Dynamic Scenes Understanding with Physics Priors for Video Question Answering arXiv:2406.00622	Jun. 2023 - Jan. 2024
X Wang, W Ma, A Wang, S Chen , A Kortylewski, A Yuille	

MISCELLANEOUS

Teaching TA, Calculus A at Tsinghua University	Fall 2022, Fall 2023
Honors	
<ul style="list-style-type: none">• First Level Scholarship of Tsinghua University (Top5%)• Second Level Scholarship of Tsinghua University (Top15%)	Oct. 2021 Oct. 2022
Reviewer CVPR 2024, Neurips 2024, AAAI 2025, AISTATS 2025, ICLR 2025	