Shuo Chen

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EDUCATION

University of California, Merced — Aug. 2025 - Present
Ph.D. Student in EECS, advised by Prof. Ming-Hsuan Yang

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

TSAIL, Tsinghua University — Oct. 2023 - Jun. 2024
Internship in 3D generation

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

PUBLICATIONS

DimensionX: Create Any 3D and 4D Scenes from a Single Image with Decoupled Video Diffusion (ICCV2025) *arXiv:2411.04928* GitHub ⭐: 1291

Wenqiang Sun*, **Shuo Chen***, Fangfu Liu*, Zilong Chen, Yueqi Duan, Jun Zhu, Jun Zhang, Yikai Wang

- 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 (TPAMI) *arXiv:2507.02299*

Yunhan Yang*, **Shuo Chen***, Yukun Huang*, Xiaoyang Wu, Yuan-Chen Guo, Hengshuang Zhao, Tong He, Xihui Liu

- 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 (ECCV2024) *arXiv:2403.05034* GitHub ⭐: 667

Zhengyi Wang, Yikai Wang, Yifei Chen, Chendong Xiang, **Shuo Chen**, Dajiang Yu, Chongxuan Li, Hang Su, Jun Zhu

- 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*

Wenqiang Sun, Zhengyi Wang, **Shuo Chen**, Yikai Wang, Zilong Chen, Jun Zhu, Jun Zhang

Compositional 4D Dynamic Scenes Understanding with Physics Priors for Video Question Answering (ICLR2025) *arXiv:2406.00622*

Xingrui Wang, Wufei Ma, Angtian Wang, **Shuo Chen**, Adam Kortylewski, Alan Yuille

MISCELLANEOUS

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

Honors

- **Earle C. Anthony Fellowship** — Aug. 2025
- **First Level Scholarship of Tsinghua University (Top5%)** — Oct. 2021

Reviewer CVPR 2024 & 2025, NeurIPS 2024 & 2025, AAAI 2025 & 2026, AISTATS 2025 & 2026, ICLR 2025 & 2026, ICML 2025