

# Shuo Chen

 Github |  Homepage |  Scholar |  Email

## EDUCATION

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### Tsinghua University

Sept. 2020 - Jun. 2024

B.S. in Mathematics and Physics

### 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

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### DimensionX: Create Any 3D and 4D Scenes from a Single Image

with Controllable Video Diffusion [arXiv:2411.04928](#) [GitHub](#) ★: **1233** July. 2024 - Nov. 2024

Wenqiang Sun\*, **Shuo Chen\***, Fangfu Liu\*, Zilong Chen, Yueqi Duan, 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)

Jun. 2024 - Oct. 2024

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](#) ★: **578** Oct. 2023 - Mar. 2024

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](#)

Mar. 2024 - Jun. 2024

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](#) Jun. 2023 - Jan. 2024

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

## MISCELLANEOUS

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Teaching TA, Calculus A at Tsinghua University

Fall 2022, Fall 2023

### Honors

- **First Level Scholarship of Tsinghua University (Top5%)** Oct. 2021
- **Second Level Scholarship of Tsinghua University (Top15%)** Oct. 2022

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