ZILONG CHEN

Tsinghua University, Beijing

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Research Interest

My primary research focuses on 3D reconstruction and generation. Previously, my main area of interest was knowledge graphs and their applications in natural language processing.

Education

Tsinghua University   Sep. 2022 – Now
Ph.D. in Computer Science and Engineering. Advisor: Huaping Liu.   *Beijing, China*

Xi'an Jiaotong University   Sep. 2018 – Jun. 2022
B.E. in Physics. Advisor: Minnan Luo.   *Xi'an, Shaanxi, China*

Publications (∗ indicates equal contribution)

[0] MeshGen: Generating PBR Textured Mesh with Render-Enhanced Auto-Encoder and Generative Data Augmentation ⭕ heheyas/MeshGen   **CVPR 2025 Highlight**

Zilong Chen, Yikai Wang, Wenqiang Sun, Feng Wang, Yiwen Chen, Huaping Liu

[1] V3D: Video Diffusion Models are Effective 3D Generators ⭕ heheyas/V3D   **arxiv 2024**

Zilong Chen, Yikai Wang, Feng Wang, Zhengyi Wang, Huaping Liu

[2] Text-to-3D using Gaussian Splattting ⭕ gsgen3d/gsgen   **CVPR 2024**

Zilong Chen, Feng Wang, Yikai Wang, Huaping Liu

[3] GaussianEditor: Swift and Controllable 3D Editing with Gaussian Splatting   **CVPR 2024**

Yiwen Chen*, **Zilong Chen***, Chi Zhang, Feng Wang, Xiaofeng Yang, Yikai Wang, Zhongang Cai, Lei Yang, Huaping Liu, Guosheng Lin

[4] Masked Space-Time Hash Encoding for Efficient Dynamic Scene Reconstruction   **NeurIPS 2023 spotlight**

Feng Wang*, **Zilong Chen***, Guokang Wang, Yafei Song, Huaping Liu

[5] TwiBot-22: Towards Graph-Based Twitter Bot Detection   **NeurIPS 2022 D&B track**

Shangbin Feng*, Zhaoxuan Tan*, Herun Wan*, Ningnan Wang*, **Zilong Chen***, Binchi Zhang*, Qinghua Zheng, Wenqian Zhang, Zhenyu Lei, Shujie Yang, Xinshun Feng, Qingyue Zhang, Hongrui Wang, Yuhan Liu, Yuyang Bai, Heng Wang, Zijian Cai, Yanbo Wang, Lijing Zheng, Zihan Ma, Jundong Li, Minnan Luo.

[6] KRACL: Contrastive Learning with Graph Context Modeling for Sparse Knowledge Graph Completion   **WWW 2023**

Zhaoxuan Tan, **Zilong Chen**, Shangbin Feng, Qingyue Zhang, Qinghua Zheng, Jundong Li, Minnan Luo

[7] BIC: Twitter Bot Detection with Text-Graph Interaction and Semantic Consistency   **ACL 2023**

Zhenyu Lei, Herun Wan, Wenqian Zhang, Shangbin Feng, **Zilong Chen**, Jundong Li, Qinghua Zheng, Minnan Luo

[8] KCD: Knowledge Walks and Textual Cues Enhanced Political Perspective Detection in News Media   **NAACL 2022 oral**

Wenqian Zhang*, Shangbin Feng*, **Zilong Chen***, Zhenyu Lei, Jundong Li, Minnan Luo

[9] PAR: Political Actor Representation Learning with Social Context and Expert Knowledge   **EMNLP 2022**

Shangbin Feng, Zhaoxuan Tan, **Zilong Chen**, Ningnan Wang, Peisheng Yu, Qinghua Zheng, Minnan Luo

Projects

Reproducting 3D Gaussian Splatting | ⭕ heheyas/gaussian_splatting_3d
- Reproducing the 3D Gaussian Splatting and achieving real-time rendering.

Segment Anything in NeRF | ⭕ WangFeng18/Segment-Anything-in-NeRF
- Extending Segment Anything to 3D scenes with NeRF and support natural language prompt with CLip-Seg.

Awards

Huiyan Scholarship | Tsinghua University   **2024**
Dean's List | Xi'an Jiaotong University   **2018-2022**
First-class Scholarship | Xi'an Jiaotong University   **2019-2022**