YANSHU ZHANG

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RESEARCH INTERESTS

My research builds interactive virtual worlds — reconstructing 3D scenes from images and making them freely editable and animatable through neural rendering.

EDUCATION

Simon Fraser University *09/2021 - Present*
Ph.D. in Computer Science (CGPA: 4.26/4.3), supervised by Prof. Ke Li

University of Science and Technology of China *09/2017 - 07/2021*
B.S. in Computer Science (CGPA: 3.52/4.3)

PUBLICATIONS

RigPAPR: Rig-Based Animation of Static Neural Point Clouds from a Fixed-Viewpoint Video
Shichong Peng, ***Yanshu Zhang****, Ke Li* *arXiv 2026*

PointGT: Simultaneous Geometry and Texture Editing for Point-Based Representations
Yanshu Zhang*, George Shramko, Pratul P. Srinivasan, Ke Li* *ECCV 2026*

P-CORE: Self-Supervised Surface Consistency for Point-Based Neural Editing
Yanshu Zhang*, Shichong Peng, Mehran Aghabozorgi, Alireza Moazeni, Ke Li* *ECCV 2026*

Tackling Misattribution in 3D Intrinsic Decomposition via Proximity Attention Point Rendering
Alireza Moazeni, Shichong Peng, ***Yanshu Zhang****, Chirag Vashist, Ke Li* *ECCV 2026*

PAPR Up-close: Close-up Neural Point Rendering without Holes
Yanshu Zhang*, Chirag Vashist, Shichong Peng, Ke Li* *3DV 2026*

WIMLE: Uncertainty-Aware World Models with IMLE
Mehran Aghabozorgi, Alireza Moazeni, ***Yanshu Zhang****, Ke Li* *ICLR 2026*

PROSE: Point Rendering of Sparse-Controlled Edits to Static Scenes
Yanshu Zhang*, Shichong Peng, Mehran Aghabozorgi, Alireza Moazeni, Ke Li* *ECCV 2025 Workshop*

PAPR in Motion: Seamless Point-level 3D Scene Interpolation
Shichong Peng, ***Yanshu Zhang****, Ke Li* *CVPR 2024 (**Highlight**)*

PAPR: Proximity Attention Point Rendering
Yanshu Zhang*, Shichong Peng, Alireza Moazeni, Ke Li* *NeurIPS 2023 (**Spotlight**)*

PATENTS

Method and System for Accelerated Operation of Layers Used in a Machine Learning Model and Differentiable Point Rendering Using Proximity Attention
Yanshu Zhang*, Yuzhen Mao, Shichong Peng, Alireza Moazeni, Ke Li*
CA Patent Application: 3292617 (2024)

EXPERIENCE

National University of Singapore *01/2021 - 05/2021*
Non-Graduating Exchange Programme (Research)

AWARDS

SFU Ph.D. Research Scholarship *(2022, 2024)*
SFU Graduate Fellowship *(2023, 2025)*
Silver Award for Outstanding Students of USTC *(2019)*
Bronze Award for Outstanding Students of USTC *(2018)*

TEACHING EXPERIENCE

Generative Models, Teaching Assistant, SFU *(2025)*
Machine Learning, Teaching Assistant, SFU *(2022)*

ACADEMIC SERVICE

Served as reviewer for CVPR, ECCV, ICCV, 3DV, SIGGRAPH, SIGGRAPH Asia, ICML, ICLR, NeurIPS