

Fuyang Zhang (张夫洋)

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Education

Ph.D. in Computing Science

Simon Fraser University, Burnaby, Canada
Advisor: Prof. Yasutaka Furukawa (GrUVi Lab)

Sep. 2021 – Present

M.Sc. in Computing Science

Simon Fraser University, Burnaby, Canada
Advisor: Prof. Yasutaka Furukawa

Jan. 2020 – Jul. 2021

B.Eng. in Computer Science

Beihang University (Shenyuan Honors College), Beijing, China

Sep. 2015 – Jul. 2019

Experience

Research Scientist Intern

Meta, Reality Labs Research

Sep. 2022 – Dec. 2022 (4 months)

Summary: Joined the group's research on structured-language models for indoor 3D scenes. Co-author on SceneScript, *ECCV* 2024.

Publications

- Fuyang Zhang, Pradeep Kumar Jayaraman, Xiang Xu, Yasutaka Furukawa. "B-Rep Distance Functions (BR-DF): How to Represent a B-Rep Model by Volumetric Distance Functions?" *arXiv*, 2025.
- Zhengqing Wang, Yuefan Wu, Jiacheng Chen, Fuyang Zhang, Yasutaka Furukawa. "CLiFT: Compressive Light-Field Tokens for Compute-Efficient and Adaptive Neural Rendering." *NeurIPS*, 2025 (spotlight).
- Shitao Tang, Jiacheng Chen, Dilin Wang, Chengzhou Tang, Fuyang Zhang, Yuchen Fan, Vikas Chandra, Yasutaka Furukawa, Rakesh Ranjan. "MVDiffusion++: A Dense High-resolution Multi-view Diffusion Model for Single or Sparse-view 3D Object Reconstruction." *ECCV*, 2024.
- Armen Avetisyan, Christopher Xie, Henry Howard-Jenkins, Tsun-Yi Yang, Samir Aroudj, Suvam Patra, Fuyang Zhang, Duncan Frost, Luke Holland, Campbell Orme, Jakob Engel, Edward Miller, Richard Newcombe, Vasileios Balntas. "SceneScript: Reconstructing Scenes With An Autoregressive Structured Language Model." *ECCV*, 2024.
- Fuyang Zhang*, Shitao Tang*, Jiacheng Chen, Peng Wang, Yasutaka Furukawa. "MVDiffusion: Enabling Holistic Multi-view Image Generation with Correspondence-Aware Diffusion." *NeurIPS*, 2023 (spotlight).
- Fuyang Zhang, Xiang Xu, Nelson Nauata, Yasutaka Furukawa. "Structured Outdoor Architecture Reconstruction by Exploration and Classification." *ICCV*, 2021.
- Fuyang Zhang*, Nelson Nauata*, Yasutaka Furukawa. "Conv-MPN: Convolutional Message Passing Neural Network for Structured Outdoor Architecture Reconstruction." *CVPR*, 2020.

Honors & funding

Graduate Entrance Scholarship

Sep. 2021

SFU Graduate Fellowship

Jan. 2020; Sep. 2021

Skills

Languages: English (professional), Chinese (native).

Programming: Python, PyTorch, TensorFlow, C/C++, Java; familiar with C#.