2024

Yatian Pang

 Homepage **in** LinkedIn **G** 1.3k+ citations Education _ Ph.D. National University of Singapore, Mechanical Engineering Aug 2021 - Now Advisor: Prof. Tay Eng Hock, Francis • Working closely with Prof. Li Yuan from Peking University. · Research interest: Computer Vision M.Sc. National University of Singapore, Mechanical Engineering Aug 2020 - June 2021 • GPA: 4.50/5.00 **B.Eng. Soochow University**, College of Mechanical and Electrical Engineering Sep 2016 - June 2020 • GPA: 3.80/4.00 Experience ____ Qwen, Research Intern April 2025 - Now · Mentor: Dr. Shuai Bai and Dr. Hang Zhang Working on computer vision for video processing. **Everlyn**, Research Intern Oct 2024 - March 2025 • Mentor: Prof. Harry Yang and Prof. Sernam Lim • Developing algorithms for animating images. A*STAR, Research Engineer & Research Intern Oct 2021 - Dec 2023 • Developing an abnormal detection method for industrial systems. • Conducting industrial data cleaning with machine learning algorithms. **Publications & Preprints** 2024 Next Patch Prediction for Autoregressive Visual Generation. Yatian Pang, Peng Jin, Shuo Yang, Bin Lin, Bin Zhu, Zhenyu Tang, Liuhan Chen, Francis EH Tay, Ser-Nam Lim, Harry Yang, Li Yuan UNDER REVIEW. [Arxiv 2024] DreamDance: Animating Human Images by Enriching 3D Geometry Cues from 2D 2024 Yatian Pang, Bin Zhu, Bin Lin, Mingzhe Zheng, Francis EH Tay, Ser-Nam Lim, Harry Yang, Li Yuan *ICCV 2025.* [Arxiv 2024] **☑** Envision3D: One Image to 3D with Anchor Views Interpolation. 2024 Yatian Pang, Tanghui Jia, Yujun Shi, Zhenyu Tang, Junwu Zhang, Xinhua Cheng, Xing Zhou, Francis EH Tay, Li Yuan [Arxiv 2024] 🗹 Masked Autoencoders for 3D Point Cloud Self-Supervised Learning. 2023 Yatian Pang, Zhenghua Chen, Li Yuan Book Chapter in Deep Learning For 3D Vision: Algorithms And Applications. [link] Masked autoencoders for point cloud self-supervised learning. 2022 Yatian Pang, Wenxiao Wang, Francis EH Tay, Wei Liu, Yonghong Tian, Li Yuan European Conference on Computer Vision (ECCV) 2022. [link]

VideoGen-of-Thought: A Collaborative Framework for Multi-Shot Video Genera-

tion.

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European Conference on Computer Vision (ECCV) 2024. [link]	
Moe-llava: Mixture of experts for large vision-language models. Bin Lin, Zhenyu Tang, Yang Ye, Jiaxi Cui, Bin Zhu, Peng Jin, Jinfa Huang, Junwu Zhang, Yatian Pang, Munan Ning, Li Yuan UNDER REVIEW. [Arxiv 2024] 🗹	2023
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Vision Systems. Ji-Yan Wu, Yatian Pang, Xiang Li, Wen Feng Lu International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICCME) 2022. [link] ☑	

Skills _____

Languages: Chinese, English, Python

Deep Learning Technologies: Pytorch, Deepspeed, Megatron