

# Yatian Pang

✉ [yatian\\_pang@u.nus.edu](mailto:yatian_pang@u.nus.edu) ☎ +65 8941 0019 🌐 [Homepage](#) [in LinkedIn](#) 📄 1k+ 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


- Next Patch Prediction for Autoregressive Visual Generation.** 2024  
**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 Poses.** 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]* [🔗](#)
- Cycle3D: High-quality and Consistent Image-to-3D Generation via Generation-Reconstruction Cycle.** 2024

Zhenyu Tang, Junwu Zhang, Xinhua Cheng, Wangbo Yu, Chaoran Feng, **Yatian Pang**, Bin Lin, Li Yuan  
AAAI 2025. [\[link\]](#) 

**Repaint123: Fast and high-quality one image to 3D generation with progressive controllable 2D repainting.**

2024

Junwu Zhang, Zhenyu Tang, **Yatian Pang**, Xinhua Cheng, Peng Jin, Yida Wei, Wangbo Yu, Munan Ning, Li Yuan

European Conference on Computer Vision (ECCV) 2024. [\[link\]](#) 

**Languagebind: Extending video-language pretraining to n-modality by language-based semantic alignment.**

2023


Bin Zhu, Bin Lin, Munan Ning, Yang Yan, Jiayi Cui, HongFa Wang, **Yatian Pang**, Wenhao Jiang, Junwu Zhang, Zongwei Li, Wancai Zhang, Zhifeng Li, Wei Liu, Li Yuan

International Conference on Learning Representations (ICLR) 2024. [\[link\]](#) 

**Abnormal Wedge Bond Detection Using Convolutional Autoencoders in Industrial Vision Systems.**

2022

Ji-Yan Wu, **Yatian Pang**, Xiang Li, Wen Feng Lu

International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICCME) 2022. [\[link\]](#) 

## Skills

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**Languages:** Chinese, English, Python

**Deep Learning Technologies:** Pytorch