Yifan Zhou

228 Westwood Avenue #11-21, Singapore 648358

(+65) 83856376   yifanzhou1107@gmail.com

https://zhouyifan.net

EDUCATION

TOEFL Score   Total 103/120 Reading 30/30   Listening 28/30   Writing 23/30   Speaking 22/30

GRE Score   Quantitative 170/170   Verbal 150/170 Analytical Writing 3.0/6

Nanyang Technological University (NTU), Singapore, Singapore   Aug 2023 - present

Ph.D. of College of Computing and Data Science

Beijing Institute of Technology (BIT), Beijing, China   Aug 2017 - Jun 2021

Bachelor of Computer Science, GPA: 3.7/4.0, Ranking: 41/226 (Top 20%)

PROFESSIONAL EXPERIENCE

NTU S-Lab, Singapore, Singapore   Mar 2022 - Jul 2023

Research Engineer

Shanghai AI Lab, Shanghai, China   Jul 2021 - Feb 2022

Algorithm Researcher

OPEN SOURCE PROJECT

MMDeploy: OpenMMLab Model Deployment Framework   Jul 2021 - Feb 2022

PUBLICATION

Trainable Log-linear Sparse Attention for Efficient Diffusion Transformers

Yifan Zhou, Zeqi Xiao, Tianyi Wei, Shuai Yang, and Xingang Pan

arXiv 2025

Alias-free latent diffusion models: Improving fractional shift equivariance of diffusion latent space

Yifan Zhou, Zeqi Xiao, Shuai Yang, and Xingang Pan

*IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR, **Oral**), 2025*

Trajectory attention for fine-grained video motion control

Zeqi Xiao, Wenqi Ouyang, **Yifan Zhou**, Shuai Yang, Lei Yang, Jianlou Si, Xingang Pan.

International Conference on Learning Representation (ICLR), 2025

Video diffusion models are training-free motion interpreter and controller

Zeqi Xiao, **Yifan Zhou**, Shuai Yang, Xingang Pan

Advances in Neural Information Processing Systems (NeurIPS), 2024

FRESCO: Spatial-Temporal Correspondence for Zero-Shot Video Translation

Shuai Yang, **Yifan Zhou**, Ziwei Liu, Chen Change Loy

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024

DiffMorpher: Unleashing the Capability of Diffusion Models for Image Morphing

Kaiwen Zhang, **Yifan Zhou**, Xudong Xu, Xingang Pan, and Bo Dai

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024

Rerender a video: Zero-shot text-guided video-to-video translation

Shuai Yang, **Yifan Zhou**, Ziwei Liu, Chen Change Loy

ACM SIGGRAPH Asia 2023 Conference Proceedings

PanoFlow: Learning 360◦ Optical Flow for Surrounding Temporal Understanding

Hao Shi†, **Yifan Zhou**†, Kailun Yang, Xiaoting Yin, Ze Wang, Yaozu Ye, Zhe Yin, Shi Meng, Peng Li, and Kaiwei Wang

IEEE Transactions on Intelligent Transportation Systems (ITITS), 2022

Learning optical flow via cross strip correlation for autonomous driving

Hao Shi, **Yifan Zhou**, Kailun Yang, Xiaoting Yin, and Kaiwei Wang

IEEE Intelligent Vehicles Symposium (IV), 2022

Managing Students' Learning through Reflection on Doing through a Self-Tutoring System

Yifan Zhou, Yanwei Sun, Zachary Ball, Zhenjun Ming, Janet K Allen, Farrokh Mistree

2021 ASEE Midwest Section Conference

HONORS/AWARDS

- The ACM-ICPC Asia Regional Contest Shenyang Site 2018 **Gold Medal**
- 2019 China Collegiate Programming Contest Xiamen Site **Silver Medal**