

Yongqi Chen

yongqich@umich.edu • (734) 389-5157

EDUCATION

University of Michigan, Ann Arbor

Aug. 2023 - Apr. 2025

M.S. in Robotics

Ann Arbor, MI

Zhejiang University

Sep. 2019 - Jun. 2023

B.S. in Robotics (Chu Kochen Honors College) GPA: 3.87/4.0

Hangzhou, China

RESEARCH EXPERIENCE

Research Interests: Fast and efficient video generation; Enabling real-time interactive video generation

Research Intern | Department of HDSI | Advisor: Hao Zhang

Nov. 2024 - Present

- Introduced Sliding Tile Attention, a novel sparse attention mechanism to accelerate inference for video generation.
- Propose a new trainable sparse attention-VSA to accelerate both training and inference for video generation.

Research Assistant | Department of EECS | Advisor: Samet Oymak

Jan. 2024 - Oct. 2024

- Explore hybrid architectures for long-context LLM
- Examine the detection of adversarial reasoning errors in LLMs' mathematical reasoning.

Research Assistant | Zhejiang University

Jul. 2021 - Mar. 2022

Department of Control Science and Engineering | Advisor: Yu Zhang

Hangzhou, China

- Combine saliency maps in Visual SLAM to improve their localization accuracy and robustness in weak texture areas.
- Improve the Lidar-SLAM system's localization accuracy and compress map storage through 2D Image Saliency.

PUBLICATIONS

1. **Fast Video Generation with Sliding Tile Attention.** ICML 2025

Peiyuan Zhang, Yongqi Chen, Runlong Su, Hangliang Ding, Ion Stoica, Zhengzhong Liu, Hao Zhang

2. **Faster Video Diffusion with Trainable Sparse Attention.** In submission

Peiyuan Zhang*, Haofeng Huang*, Yongqi Chen*, Will Lin, Zhengzhong Liu, Ion Stoica, Eric P Xing, Hao Zhang

2. **Algorithmic Oversight for Deceptive Reasoning.** NeurIPS 2024 Workshop

Ege Taga, Mingchen Li, Yongqi Chen, Samet Oymak

3. **Scalable Benchmarking and Robust Learning for Noise-Free Ego-Motion and 3D Reconstruction from Noisy Video.** ICLR 2025

Xiaohao Xu, Tianyi Zhang, Sibow Wang, Xiang Li, Yongqi Chen, Ye Li, Bhiksha Raj, Matthew Johnson-Roberson, Xiaonan Huang

OPEN-SOURCE PROJECTS

1. Core member of [FastVideo](#)

TECHNICAL SKILLS

Programming Languages: Python, C, C++, MATLAB

Tools: Pytorch, ROS,

Interest: Basketball, Reading, Travelling, Singing