

# Yongqi Chen

yongqich@umich.edu • (734) 389-5157

## EDUCATION

### University of California, San Diego

May. 2025 - Present

- Research Intern

San Diego, CA

### 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 | University of California, San Diego | 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 | University of Michigan | 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 | Advisor: Yu Zhang

Jul. 2021 - Mar. 2022

- 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, Sibor 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, Diffusers

**Interest:** Basketball, Reading, Travelling, Singing