

LI HAOXIN

Nanyang Technological University, Singapore

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RESEARCH INTERESTS

Computer Vision: Video Understanding, Video Generation

Multi-modal Learning: Vision & Language

EDUCATION

Nanyang Technological University

Aug. 2021 - NOW

- Ph.D. student in Computer Science and Engineering
- Supervisor: Prof. Boyang Li and Prof. Hanwang Zhang

Sun Yat-sen University

Aug. 2018 - Jun. 2021

- M.Sc. in Information and Communication Engineering
- Supervisor: Prof. Wei-Shi Zheng

Sun Yat-sen University

Aug. 2014 - Jun. 2018

- B.E. in Electronic Engineering
- Average Score: 92.48/100, ranking: 2/119.

EXPERIENCE

ByteDance/TikTok, Singapore

Jan. 2024 - July. 2024

- Research Intern
- Research Topic: Video Generation
- Supervisor: Dr. Song Bai

PUBLICATIONS

- Haoxin Li, Yingchen Yu, Qilong Wu, Hanwang Zhang, Boyang Li, Song Bai. **Learning to Animate Images from A Few Videos to Portray Delicate Human Actions.** In IEEE Winter Conference on Applications of Computer Vision (WACV), 2026.
- Haoxin Li, Boyang Li. **Enhancing Vision-Language Compositional Understanding with Multimodal Synthetic Data.** In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025.
- Haoxin Li, Yuan Liu, Hanwang Zhang, Boyang Li. **Mitigating and Evaluating Static Bias of Action Representations in the Background and the Foreground.** In IEEE International Conference on Computer Vision (ICCV), 2023. (Oral)

- Haoxin Li, Wei-Shi Zheng, Jianguo Zhang, Haifeng Hu, Jiwen Lu, Jian-Huang Lai. **Egocentric Action Recognition by Automatic Relation Modeling.** IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2022.
- Haoxin Li, Wei-Shi Zheng, Yu Tao, Haifeng Hu, Jian-Huang Lai. **Adaptive Interaction Modeling via Graph Operations Search.** In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020.
- Haoxin Li, Yijun Cai, Wei-Shi Zheng. **Deep Dual Relation Modeling for Egocentric Interaction Recognition.** In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019.
- Miao Yu Li, Haoxin Li, Zilin Du, Boyang Li. **Diversify, Rationalize, and Combine: Ensembling Multiple QA Strategies for Zero-shot Knowledge-based VQA.** In Findings of the Association for Computational Linguistics: EMNLP 2024.
- Jiaming Zhou, Kun-Yu Lin, Haoxin Li, Wei-Shi Zheng. **Graph-Based High-Order Relation Modeling for Long-Term Action Recognition.** In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021.
- Yijun Cai, Haoxin Li, Jian-Fang Hu, Wei-Shi Zheng. **Action Knowledge Transfer for Action Prediction with Partial Videos.** In 33rd AAAI Conference on Artificial Intelligence (AAAI), 2019.
- Shuosen Guan, Haoxin Li, Wei-Shi Zheng. **Unsupervised Learning for Optical Flow Estimation Using Pyramid Convolution LSTM.** In IEEE International Conference on Multimedia and Expo (ICME), 2019.
- Yi Zhong, Jia-Hui Pan, Haoxin Li, Wei-Shi Zheng. **Weakly supervised action anticipation without object annotations.** Frontiers of Computer Science, 2023.

HONORS & AWARDS

- ActivityNet Large-Scale Activity Recognition Challenge 2018: Trimmed Event Recognition (Moments in Time Recognition Challenge), Rank: 1/12 in Mini Track, 10/29 in Full Track.
- Chinese National Scholarship (1/264), by Minister of Education of China, 2015

SKILLS

- Programming: Python, C/C++, MATLAB
- Deep Learning: PyTorch, TensorFlow
- Language: Mandarin, English, Cantonese