

# LI HAOXIN

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## RESEARCH INTERESTS

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Computer Vision: Video Understanding, Video Generation

Multi-modal Learning: Vision & Language

## EDUCATION

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### 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

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### ByteDance/TikTok, Singapore

*Jan. 2024 - July. 2024*

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

## PUBLICATIONS

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- [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 Submission.
- [Haoxin Li](#), Boyang Li. **Enhancing Vision-Language Compositional Understanding with Multimodal Synthetic Data**. In Submission.
- [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, 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, 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, Yijun Cai, Wei-Shi Zheng. **Deep Dual Relation Modeling for Egocentric Interaction Recognition**. In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019.
- Miaoyu 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.
- Shuosun 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

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- 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

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