# Haoxin Li

Sun Yat-sen University, Guangzhou, P.R. China
Email: lihx39@mail2.sysu.edu.cn / lihaoxin05@gmail.com
Homepage: `https://lihaoxin05.github.io/`

## RESEARCH INTERESTS

- Computer Vision: human action and interaction analysis, video classification

## EDUCATION

**Sun Yat-sen University** *Aug. 2018 - Now*

- M.Sc. in Information and Communication Engineering
- Research area: computer vision. 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.

## PUBLICATIONS

- 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.

  We automate the process of structures design to learn adaptive structures for interaction modeling. We propose to search the network structures with differentiable architecture search mechanism, which learns to construct adaptive structures for different videos to facilitate adaptive interaction modeling.

- 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.

  To exploit the strong relations between the two interacting persons in egocentric videos for egocentric interaction recognition, we introduce a dual relation modeling framework which learns to model the relations between the camera wearer and the interactor based on the individual action representations of the two persons.

- 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.

## CONTESTS

- 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.

## AWARDS

- Outstanding Undergraduate Thesis Award, by Sun Yat-sen University, 2018
- Chinese National Scholarship (1/264), by Minister of Education of China, 2015