

Wanhua Li

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Education

Sun Yat-Sen University

B.S. IN COMPUTER SCIENCE

- GPA 4.0/4.0, Top 1/118

Guangzhou, China

2013 - 2017

Tsinghua University

PH.D. CANDIDATE IN DEPARTMENT OF AUTOMATION

- Supervisor: Jiwen Lu, Jianjiang Feng and Jie Zhou

Beijing, China

Since 2017

Research Interests

- **Computer Vision:** Age Estimation, Face Recognition, Action Recognition, Detection
- **Machine Learning:** Deep Learning, Reinforcement Learning

Skills

- **Programming language:** Python, Matlab, C/C++
- **Deep Learning Framework:** Pytorch, Tensorflow, Caffe
- **Language:** Chinese, English

Honors & Awards

- 2017 **Outstanding Graduate of Sun Yat-Sen University,**
- 2014-2016 **Outstanding Student of Sun Yat-Sen University(thrice),**
- 2014,2015 **National Scholarship for Undergraduates(twice),**
- 2014 **The Chinese Mathematics Competitions,Guangdong, First Prize,**

SYSU

SYSU

China

Guangdong

Publications

- [1] Benchao Li, **Wanhua Li**, Yongyi Tang, Jianfang Hu, Wei-Shi Zheng, GL-PAM RGB-D Gesture Recognition, **ICIP** 2018
- [2] **Wanhua Li**, Jiwen Lu, Jianjiang Feng, Chunjing Xu, Jie Zhou, Qi Tian, BridgeNet: A Continuity-Aware Probabilistic Network for Age Estimation, **CVPR** 2019.

Research Projects

Large Scale RGB-D Hand Gesture Recognition

SYSU

Jan. 2017 - Jun. 2017

- Proposed a multimodal gesture recognition framework for large scale RGB-D hand gesture datasets.
- Trained VGG-16 based convolution neural networks for each modality. Tried different ways to fusion these modalities.
- Achieved the accuracy of **61.20%** on the validation subset and **67.02%** on the test subset.
- Ranked **2th** on the ChaLearn LAP Large-scale Isolated Gesture Recognition Challenge (Round 2).

Large Scale Face Recognition

Tsinghua University

Jan. 2018 - Apr. 2018

- Large scale face recognition still has many challenging problems. Especially when the number of identity is very large, the conventional softmax loss is not suitable any more. At this project, we need to process **100,000+** identities and **10,000,000+** face images, which makes our problem more challenging.
- An angular margin based loss is utilized to train convolution neural networks.
- An approximate method is proposed to train 100,000+ identities.
- We achieved **96.2%** true positive rate at **1/100,000** false positive rate.