

# Liang Xu

Shenzhen, China

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## Education

### Huazhong University of Science and Technology(HUST)

M.S. in Information & Communication Engineering  
Concentrations: Action Detection, Computer Vision

Wuhan, China

Sep. 2016 - Jun 2019

### Xidian University

B.S. in Biomedical-Engineering

Xi'an, China

Sep. 2012 - Jun 2016

Related Courses: Digital Image Processing(98), Random Signal Processing(98), Digital Signal Process(88), Signals and Systems(86)

## Honors & Awards

2017 **5th Place**, Pig Face Recognition Competition National Final, JD Inc

Beijing, China

2017 **First Prize Academic Scholarship**, HUST

Wuhan, China

2016 **First Prize Academic Scholarship**, HUST

Wuhan, China

2015 **Award of Excellence**, Provincial awards

Xi'an, China

College Students Innovation and Entrepreneurship Project organised by Shaanxi Province

## Working Experience

### Computer Vision Researcher

SenseTime Technology

Shenzhen, China

Jul. 2019 - Present

Clothes-Changing Person Re-Identification(CCre-ID):

- Explore the application of clothes-changing person re-identification in video surveillance system.

Road Damage Detection project:

- Detect the damage's location and it's class(cracks, potholes, etc.) in RGB image.
- Rank 1st in the post-match leaderboard of IEEE BigData 2020 Global Road Damage Detection Challenge.

Car Wheel Detection project:

- Detect the position of four wheels to assist in judging the direction of the vehicle.
- Achieve comparable performance to large model but with only 10% of the backbone parameters.

Passenger Fall Recognition project:

- Recognize passenger's fall in the escalator surveillance video.
- Modeling the spatial-temporal information with conventional 2D CNN in real time.

## Publication

**Xu, L.** (2019). *Cascaded boundary network for high-quality temporal action proposal generation*. IEEE Transactions on Circuits and Systems for Video Technology, 30(10), 3702-3713.

## Skills

**Machine Learning** PyTorch, TensorFlow  
**Programming** Python, C++, MATLAB  
**Languages** Chinese, English