

# XIJIE HUANG

Shanghai Jiao Tong University, 800 Dongchuan Rd. Minhang, Shanghai, China . 200240

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## EDUCATION

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### Shanghai Jiao Tong University

*Sept 2016 - Present*

Undergraduate, School of Electronics, Information and Electrical Engineering

Major in Measurement and Control Technology and Instrument, Minor in Computer Science

Overall GPA: 89.32/100 (3.82)

Advisors: [Prof.Cewu Lu](#), Machine Vision and Intelligence Group, SJTU

[Prof.Manhua Liu](#), Department of Instrument Science and Engineering, SJTU

[Prof.Mani B. Srivastava](#), Department of ECE & CS, University of California, Los Angeles

## TECHNICAL STRENGTHS

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**Languages** Python, MATLAB, C, C++, Java, HTML

**Framework** TensorFlow, Keras, Caffe, PyTorch

## RESEARCH/PROJECT EXPERIENCE

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### IIoT Research Center, Department of Electrical Engineering

*June 2017 - Sept 2017*

*Undergraduate Research Assistance*

- Analysis on information of social network to build connections profile of users
- Optimization of jieba word segmentation framework and collect data using web crawler

### Project: Automatic Navigation Robot Car

*Feb 2018 - July 2018*

*Project Leader*

- Designing obstacle detection and automatic navigation algorithm of robot car
- Designing Android App for communication between smartphone and camera on robot car

### Machine Vision and Intelligence Group

*Sept 2017 - Present*

*Undergraduate Research Assistance*

- Researching in computer vision & robotic, particularly in human-object interaction detection.
- Building state-of-the-art datasets of human-object interaction [[Website](#)]
- One preprints on [arxiv](#), one paper accepted as poster in CVPR 2019 (co-author)

### Fingerprint Group, Department of Instrument Engineering

*Feb 2019 - Present*

*Undergraduate Research Assistance*

- Designing Generative Adversarial Network to enhance latent fingerprint
- Optimizing the fingerprint recognition algorithm based on enhanced results

### Networked Embedded Systems Laboratory (NESL), UCLA

*June 2019 - Present*

*Undergraduate Research Assistance (CSST Program)*

- Detecting whether a neural network has been compromised by malware that causes the model to produce incorrect results when the input includes some special trigger for the backdoor.
- Pursue more sophisticated backdoors that are harder to detect, as well as better defense mechanism

## PUBLICATIONS

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## Transferable Interactiveness Knowledge for Human-Object Interaction Detection

Yonglu Li, Siyuan Zhou, **Xijie Huang**, Liang Xu, Ze Ma, Haoshu Fang, Cewu Lu *CVPR2019*

## HAKE: Human Activity Knowledge Engine

Yong-Lu Li, Liang Xu, **Xijie Huang**, Xinpeng Liu, Ze Ma, Mingyang Chen, Shiyi Wang, Hao-Shu Fang, Cewu Lu *arxiv Preprint*

## ACADEMIC ACHIEVEMENTS

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National Scholarship (Top 2% students), Ministry of Education of P.R.China. 2017.

A Class Scholarship (Top 2% students), Shanghai Jiao Tong University. 2017

Endress+Hauser Scholarship, Endress+Hauser Inc. 2018.

B Class Scholarship (Top 10% students), Shanghai Jiao Tong University. 2018

First Prize in [TIDY UP MY ROOM CHALLENGE — ICRA 2018](#) (Member of Kaibot Team)

Second Prize in China Undergraduate Mathematical Contest in Modeling, Shanghai Division. 2017

[Meritorious Winner](#) in Mathematical Contest In Modeling & Interdisciplinary Contest In Modeling, Comap. 2018

## STANDARD TEST

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**TOEFL** 100 (Reading:27 Listening:27 Speaking:23 Writing:23)

**GRE** 320 (Q170+V150) + 3.0(AW)