

# Yixiao Ge

PHD STUDENT IN COMPUTER VISION · DEEP LEARNING

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## Education

### Department of Electronic Engineering, The Chinese University of Hong Kong (CUHK)

Hong Kong SAR

PH.D. STUDENT IN COMPUTER VISION AND DEEP LEARNING

Aug. 2018 - Present

- Supervised by Prof. Hongsheng Li and Prof. Xiaogang Wang in Multimedia Laboratory (MMLAB).
- Research interests include but not limit to image retrieval, image generation and representation learning.

### School of Automation, Huazhong University of Science and Technology (HUST)

Wuhan, China

B.S. IN MEASUREMENT AND CONTROL TECHNOLOGY AND INSTRUMENT

Sep. 2013 - Jun. 2017

- GPA: 3.81/4.00. Ranking: 2/48.
- Won National Scholarship and was awarded as Pacemaker to Merit Student.

## Research Projects

### Mutual Mean-Teaching: Pseudo Label Refinery for Unsupervised Domain Adaptation on Person Re-ID

ICLR 2020

YIXIAO GE, DAPENG CHEN, HONGSHENG LI

[paper] [code]

- We propose an unsupervised framework to conduct online refinement of pseudo labels for domain adaptation.
- We propose a novel soft softmax-triplet loss to support learning with soft pseudo triplet labels.
- Considerable improvements of up to 18% mAP are achieved on four adaptation tasks.

### FD-GAN: Pose-guided Feature Distilling GAN for Robust Person Re-identification

NeurIPS 2018

YIXIAO GE\*, ZHUOWAN LI\*, HAIYU ZHAO, GUOJUN YIN, SHUAI YI, XIAOGANG WANG, HONGSHENG LI

[paper] [code]

- We propose FD-GAN to learn identity-related and pose-unrelated representations for person re-identification with pose-variation.
- The generated person images by our proposed method show better quality than existing specific person-generation methods.
- Experiments on three datasets show our method achieves the state-of-the-art performance, without requiring extra auxiliary pose information or increasing the computational complexity during inference.

### Breast Cancer Detection based on Deep Learning Methods

YIXIAO GE, HONGSHENG LI

- We propose a patch-level framework to recognize the degree of lymph node metastasis on patches and identify the breast cancer on patients.
- The thesis based on this project is awarded as the Excellent Undergraduate Graduation Thesis.

## Honors & Awards

- |      |  |               |
|------|--|---------------|
| 2018 | <b>CUHK Postgraduate Scholarship</b> , during the whole PhD period                                     | Hong Kong SAR |
| 2016 | <b>First Prize of China Instrument and Control Society Scholarship</b> , top 6 students nationwide     | China         |
| 2015 | <b>Pacemaker to Merit Student</b> , top 20 students in HUST  | Wuhan, China  |
| 2015 | <b>National Scholarship</b> , top 1% students in Automation Department                                 | Wuhan, China  |
| 2015 | <b>Outstanding Individual of Science and Technology Activities</b> , excellence in research activities | Wuhan, China  |
| 2015 | <b>Outstanding League Cadres</b> , excellence in student works   | Wuhan, China  |

## Working Experience

### Research Institute, SenseTime Group Ltd.

Shenzhen, China

RESEARCH INTERN

May 2019 - Present

- Work on image-based localization with Dr. Rui Zhao and Dr. Feng Zhu.

### Multimedia Laboratory, The Chinese University of Hong Kong

Hong Kong SAR

RESEARCH ASSISTANT

Sep 2017 - Jul 2018

- Worked on disentangled representation learning by generative adversarial networks advised by Prof. Hongsheng Li.

### Multimedia Laboratory, The Chinese University of Hong Kong

Hong Kong SAR

JUNIOR RESEARCH ASSISTANT

Feb 2017 - May 2017

- Worked on breast cancer detection advised by Prof. Hongsheng Li.