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About Me

I am a researcher at SenseTime. I received my M.S. degree at Graduate Institute of Networking and Multimedia, National Taiwan University in 2018. Before that, I received my B.E. degrees in 2016 from Donghua University. I also did research internship at Microsoft Research Asia, Tencent AI Lab, and MMLAB of CUHK at Shenzhen.

My research interest mainly lies in computer vision, deep learning, and face analysis.

I will start my PhD study supervised by Prof. Yoichi Sato at UToyko on Apr. 2019.



Microsoft

Tencent

MMLab

Education

Ph.D. - The University of Tokyo, Japan

04/2019 - 04/2022 (expected)

Graduate School of Information Science and Technology

supervised by Prof. Yoichi Sato

M.S. - National Taiwan University, Taiwan

09/2016 – 08/2018

Graduate Institute of Networking and Multimedia,

supervised by Prof. Winston Hsu.

GPA: 4.1/4.3

B.Eng. - Donghua University, China

09/2012 - 06/2016

Computer Network Engineering (Excellent Class)

GPA: 87/100

Experience

The University of Tokyo

04/2019 - 01/2022 (expected)

Ph.D. student

Adviser: Prof. Yoichi Sato

● First-person vision

SenseTime

09/2018 - present

Researcher

● Incremental large-scale face recognition training

Visual Computing Group, Microsoft Research Asia

01/2018 - 07/2018

Research Intern

Mentor: Dr. Dong Chen

● Large-scale face recognition

Tencent AI Lab

07/2017 - 09/2017

Research Intern

Mentor: Dr. Zhifeng Li and Dr. Wei Liu

● Real-time face detection and alignment

National Taiwan University

09/2016 - 08/2018

Master student & Research assistant

Adviser: Prof. Winston Hsu

● Low-resolution face hallucination and recognition

Accepted by ECCV 2018

● Virtual Try-On Shoe

Accepted by ACCV 2018

- **Disguised Faces in the Wild**

1st winner of Disguised Faces in the Wild Challenge, CVPR 2018.

- **Attribute Augmented Convolutional Neural Network for Face Hallucination**

Accepted by CVPRW 2018

- **Using two-stream contextual CNN with inside cascaded structure for fast and accurate face detection**

Accepted by ICCV 2017

- **Group-level emotion recognition in the wild**

1st winner of EmotionW, ICMI 2017 Grand Challenge

2nd winner of EmotionW, ICMI 2018 Grand Challenge

Multimedia Laboratory, Shenzhen Institutes of Advanced Technology

07/2015 - 08/2016

Visiting student

Adviser: Prof. Zhifeng Li and Prof. Yu Qiao

- **Face Recognition using proposed discriminative deep feature learning approach.**

Accepted by ECCV 2016 and IJCV

- **Joint face detection and alignment using multi-task cascaded convolutional networks**

Accept by IEEE SPL

- **Facial gender, smile and accessories classification using deep convolutional neural networks**

1st winner of ChaLearn Looking at People Challenge - Track 2 & 3, CVPR 2016.

Publications (1 IJCV, 2 ECCV, 1 ICCV, 3 CVPRW, 1ACCV, 2 ICMI, 1 SPL)

- Yandong Wen*, **Kaipeng Zhang***, Zhifeng Li and Yu Qiao, “A Comprehensive Study on Center Loss for Deep Face Recognition”, *IJCV*, 2019 (* indicates equal contribution).
- **Kaipeng Zhang**, Zhanpeng Zhang, Chia-Wen Cheng, Winston Hsu, Yu Qiao, Wei Liu and Tong Zhang, “Super-Identity Convolutional Neural Network for Face Hallucination”, *ECCV*, 2018.
- **Kaipeng Zhang**, Ya-Liang Chang and Winston Hsu, “Deep Disguised Faces Recognition”, *CVPRW*, 2018.
- Chao-Te Chou, Cheng-Han Lee, **Kaipeng Zhang**, Hu Cheng Lee and Winston Hsu, “Pose Invariant Virtual Try-On Shoe with Conditional Image Completion”, *ACCV*, 2018.
- Kai Wang, Xiaoxing Zeng, Jianfei Yang, Debin Meng, **Kaipeng Zhang**, Xiaojiang Peng and Yu Qiao, “Cascade Attention Networks For Group Emotion Recognition with Face, Body and Image Cues”, *ICMI Grand Challenge*, 2018.
- Cheng-Han Lee, **Kaipeng Zhang**, Hu Cheng Lee, Chia-Wen Cheng and Winston Hsu, “Attribute Augmented Convolutional Neural Network for Face Hallucination”, *CVPRW*, 2018.
- **Kaipeng Zhang**, Zhanpeng Zhang, Hao Wang, Zhifeng Li, Yu Qiao and Wei Liu, “Detecting Faces Using Inside Cascaded Contextual CNN”, *ICCV*, 2017.
- Lianzhi Tan, **Kaipeng Zhang**, Kai Wang, Xiaoxing Zeng, Xiaojiang Peng and Yu Qiao, “Group Emotion Recognition with Individual Facial Emotion CNNs and Global Image Based CNNs”, *ICMI Grand Challenge*, 2017.
- Yandong Wen, **Kaipeng Zhang**, Zhifeng Li and Yu Qiao, “A Discriminative Deep Feature Learning Approach for Face Recognition”, *ECCV*, 2016.
- **Kaipeng Zhang**, Zhanpeng Zhang, Zhifeng Li and Yu Qiao, “Joint Face Detection and Alignment using Multi-task Cascaded Convolutional Networks”, *IEEE SPL*, vol. 23, no. 10, pp. 1499-1503, 2016.
- **Kaipeng Zhang**, Lianzhi Tan, Zhifeng Li, Yu Qiao, “Gender and Smile Classification using Deep Convolutional Neural Networks”, *CVPRW*, 2016.

Selected Honors & Awards

Disguised Faces in the Wild Workshop, CVPR 2018, <i>1st winner</i>	2018
Group-level emotion recognition, EmotiW, ICMI 2018 Grand Challenge, <i>2nd winner</i>	2018
Group-level emotion recognition, EmotiW, ICMI 2017 Grand Challenge, <i>1st winner</i>	2017
Accessories Classification, ChaLearn Looking at People Challenging, CVPR 2016, <i>1st winner</i>	2016
Smile and Gender Classification, ChaLearn Looking at People Challenging, CVPR 2016, <i>1st winner</i>	2016
Outstanding Undergraduate Thesis	2016

Academic Service

Reviewer of CVPR 2018 - 2019, ACCV 2018, TPAMI, TIP, TMM, TNNLS, Neurocomputing, and SPL