

# 張凱鵬 (ZHANG, KAIPENG)

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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.



## Education

### National Taiwan University

09/2016 – 08/2018

M.S. in Graduate Institute of Networking and Multimedia, supervised by Prof. Winston Hsu.

- GPA: 4.1/4.3

### Donghua University, Shanghai

09/2012 - 06/2016

B.Eng. in Computer Network Engineering (Excellent Class)

- GPA: 87/100

## Experience

### SenseTime

09/2018 - Present

Researcher

- **Large-scale face recognition**

### 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**  
1<sup>st</sup> 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**  
1<sup>st</sup> winner of EmotionW, ICMI 2017 Grand Challenge  
2<sup>nd</sup> winner of EmotionW, ICMI 2018 Grand Challenge

Visiting student

Adviser: Prof. Zhifeng Li and Prof. Yu Qiao

- **Face Recognition using proposed discriminative deep feature learning approach.**  
Accepted by ECCV 2016
- **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**  
1<sup>st</sup> winner of ChaLearn Looking at People Challenge - Track 2 & 3, CVPR 2016.

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

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

### **Academic Service**

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