

# 張凱鵬 (ZHANG, KAIPENG)

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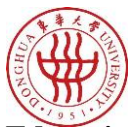
Homepage: <http://kpzhang93.github.io/>

## About Me

I am a master student at Department of Computer Science and Information Engineering, National Taiwan University supervised by Prof. Winston Hsu. I am also doing an internship at Microsoft Research Asia (MSRA) supervised by Dr. Dong Chen.

I got my B.Eng. degree in the College of Computer Science & Technology, Donghua University in June 2016. Besides, I did research internship at Tencent AI Lab and MMLAB of the Chinese University of Hong Kong at Shenzhen under the supervision of Prof. Zhifeng Li and Prof. Yu Qiao.

My research interest mainly lies in computer vision, deep learning, and face analysis. I totally got more than **600 citations** and **2000 Github stars**.



Microsoft **Tencent** **MMLab**

## Education

**National Taiwan University** 09/2016 – 08/2018

M.E. (expected July 2018) in Computer Science, 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

**Visual Computing Group, Microsoft Research Asia** 01/2018 - Present

Research Intern

Mentor: Dr. Dong Chen

- **Large-scale face recognition**

**Tencent AI Lab** 07/2017- 08/2017

Research Intern

Mentor: Dr. Zhifeng Li and Dr. Wei Liu

- **Real-time face detection and alignment**

**National Taiwan University** 09/2016 - Present

Research assistant

Adviser: Prof. Winston Hsu

- **Low-resolution face hallucination and recognition**  
Accepted by ECCV 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

**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.**  
*Github: <https://github.com/ydwen/caffe-face> (800+ stars)*  
Accepted by ECCV 2016
- **Joint face detection and alignment using multi-task cascaded convolutional networks**  
*Github: [https://github.com/kpzhang93/MTCNN\\_face\\_detection\\_alignment](https://github.com/kpzhang93/MTCNN_face_detection_alignment) (1100+ stars).*  
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

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**Kaipeng Zhang**, Zhanpeng Zhang, Chia-Wen Cheng, Winston Hsu, Yu Qiao, Wei Liu, Zhifeng Li, “Super-Identity Convolutional Neural Network for Face Hallucination”, *European Conference on Computer Vision (ECCV)*, 2018.

**Kaipeng Zhang**, Ya-Liang Chang, Winston Hsu, “Deep Disguised Faces Recognition”, in *IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, 2018.

Cheng-Han Lee, **Kaipeng Zhang**, Hu Cheng Lee, Chia-Wen Cheng, Winston Hsu, “Attribute Augmented Convolutional Neural Network for Face Hallucination”, in *IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, 2018.

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”, in *ACM International Conference on Multimodal Interaction (ICMI) Grand Challenge*, 2017.

**Kaipeng Zhang**, Zhanpeng Zhang, Hao Wang, Zhifeng Li, Yu Qiao and Wei Liu, “Detecting Faces Using Inside Cascaded Contextual CNN”, in *IEEE International Conference on Computer Vision (ICCV)*, 2017.

Yandong Wen, **Kaipeng Zhang**, Zhifeng Li, Yu Qiao, “A Discriminative Deep Feature Learning Approach for Face Recognition”, *European Conference on Computer Vision (ECCV)*, 2016.

*320+ Citations rank 7/617 for papers published in ECCV 2016.*

**Kaipeng Zhang**, Lianzhi Tan, Zhifeng Li, Yu Qiao, “Gender and Smile Classification using Deep Convolutional Neural Networks”, in *IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, 2016.

**Kaipeng Zhang**, Zhanpeng Zhang, Zhifeng Li, Yu Qiao, “Joint Face Detection and Alignment using Multi-task Cascaded Convolutional Networks”, *IEEE Signal Processing Letters (SPL)*, vol. 23, no. 10, pp. 1499-1503, 2016.

*290+ Citations rank 1/1290 for papers published in IEEE SPL 2015 - 2017*

## Selected Honors & Awards

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*Disguised Faces in the Wild Workshop, CVPR 2018*

- 1<sup>st</sup> winner 2018

*Group-level emotion recognition, Emotion Recognition in the Wild, ICMI 2017 Grand Challenge*

- 1<sup>st</sup> winner 2017

*Accessories Classification, ChaLearn Looking at People Challenging, CVPR 2016*

- 1<sup>st</sup> winner 2016

*Smile and Gender Classification, ChaLearn Looking at People Challenging, CVPR 2016*

- 1<sup>st</sup> winner 2016

*Outstanding Undergraduate Thesis*

2016

*Second Prize in Shanghai, China Undergraduate Mathematical Contest in Modeling*

2015

## Academic Service

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Reviewer of Asian Conference on Computer Vision (ACCV) 2018

Reviewer of IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2018

Reviewer of IEEE Transactions on Neural Networks and Learning Systems (TNNLS)

Reviewer of IEEE Signal Processing Letters (SPL)