張 凱鵬 (ZHANG, KAIPENG)

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About Me

I am a second-year Ph.D. student in Graduate School of Information Science and Technology at The University of Tokyo, advised by Prof. Yoichi Sato.

Before coming to UTokyo, I received my M.S. degree in Graduate Institute of Networking and Multimedia at National Taiwan University in 2018. Before that, I received my B.E. degrees in 2016 from Donghua University.

I was a researcher in SenseTime and 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 focus on face analysis and open world analysis. My works totally received **3300+ citations** and **3500+ GitHub Stars**.

Education

Ph.D. - The University of Tokyo, Japan   *04/2019 – 03/2022*

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.E. - Donghua University, China   *09/2012 – 07/2016*

Computer Networking (*Excellent Engineer Program*)

GPA: 87/100

Experience

The University of Tokyo   *04/2019 – 03/2022*

Ph.D. student & Research assistant

Advisor: Prof. Yoichi Sato

- Semantic segmentation**,** few-shot learning and active learning
- AutoML for face analysis (*Tencent Rhino-Bird Elite Training Program)*

SenseTime   *09/2018 – 03/2019*

Researcher

- Incremental large-scale face recognition learning system for ShenZhen Security Bureau

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

Master student & Research assistant

Advisor: Prof. Winston Hsu

- Low-resolution face hallucination and recognition. *ECCV 2018*
- Virtual Try-On Shoe. *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, *CVPRW 2018*
- Group-level emotion recognition in the wild

    1st winner of EmotionW, ICMI 2017 Grand Challenge

    2nd winner of EmotionW, ICMI 2018 Grand Challenge

Tencent AI Lab   *07/2017 – 09/2017*

Research Intern

Mentor: Dr. Zhifeng Li and Dr. Wei Liu

- Real-time face detection and alignment. *ICCV 2017*

Multimedia Laboratory, Shenzhen Institutes of Advanced Technology   *07/2015 – 08/2016*

Visiting student

Advisor: Prof. Zhifeng Li and Prof. Yu Qiao

- Face Recognition using proposed discriminative deep feature learning approach. *ECCV 2016 & IJCV*
- Joint face detection and alignment using multi-task cascaded convolutional networks. *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 (received 3300+ citations, June. 2020)

1. Zhanpeng Zhang, **Kaipeng Zhang**, "FarSee-Net: Real-Time Semantic Segmentation by Efficient Multi-scale Context Aggregation and Feature Space Super-resolution", *ICRA, 2020.*

2. Yandong Wen*, **Kaipeng Zhang***, Zhifeng Li and Yu Qiao, "A Comprehensive Study on Center Loss for Deep Face Recognition", *IJCV, 2019 (* indicates equal contribution).*

3. **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.*

4. **Kaipeng Zhang**, Ya-Liang Chang and Winston Hsu, "Deep Disguised Faces Recognition", *CVPRW, 2018.*

5. 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.*

6. 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.*

7. Cheng-Han Lee, **Kaipeng Zhang**, Hu Cheng Lee, Chia-Wen Cheng and Winston Hsu, "Attribute Augmented Convolutional Neural Network for Face Hallucination", *CVPRW, 2018.*

8. **Kaipeng Zhang**, Zhanpeng Zhang, Hao Wang, Zhifeng Li, Yu Qiao and Wei Liu, "Detecting Faces Using Inside Cascaded Contextual CNN", *ICCV, 2017.*

9. 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.*

10. Yandong Wen, **Kaipeng Zhang,** Zhifeng Li and Yu Qiao, "A Discriminative Deep Feature Learning Approach for Face Recognition", *ECCV, 2016.*

11. **Kaipeng Zhang**, Zhanpeng Zhang, Zhifeng Li and Yu Qiao, "Joint Face Detection and Alignment using Multi-task Cascaded Convolutional Networks", *IEEE SPL, 2016.*

12. **Kaipeng Zhang**, Lianzhi Tan, Zhifeng Li, Yu Qiao, "Gender and Smile Classification using Deep Convolutional Neural Networks", *CVPRW, 2016.*

Selected Honors & Awards

Tencent Rhino-Bird Elite Training Program	2020
MSRA Fellowship Nomination Award	2019
Disguised Faces in the Wild Workshop, CVPR 2018, *1st winner*	2018
Group-level emotion recognition, EmotiW, ICMI 2018 Grand Challenge, *2nd winner*	2018
Group-level emotion recognition, EmotiW, ICMI 2017 Grand Challenge, *1st winner*	2017
Accessories Classification, ChaLearn Looking at People Challenging, CVPR 2016, *1st winner*	2016

Smile and Gender Classification, ChaLearn Looking at People Challenging, CVPR 2016, *1st winner*   2016

Outstanding Undergraduate Thesis   2016

Academic Service

Reviewer of NeurIPS 2020, ECCV 2020, AAAI 2020, ICCV 2019, CVPR (2018, 2019, 2020), ACCV 2018, TPAMI, TIP, TNNLS, TCSVT, TMM, Neurocomputing, and SPL