

#### Ph.D Student · Computer Science

Institutes of Data Science & School of Computing, National University of Singapore

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Education\_

## **School of Computing, National University of Singapore**

Singapore

Ph.D Student, Al Singapore Ph.D Fellowship

08.2021 -

• Advisor: Presidential Young Prof. Yang You

### **University of Chinese Academy of Sciences**

Beijing, China

MASTER OF ENGINEERING

09.2017 - 06.2020

• Outstanding Graduates

• Advisor: Prof. Yu Qiao and Assoc. Prof. Xiaojiang Peng

#### **Beijing Normal University Zhuhai Campus**

Zhuhai, China 09.2013 - 06.2017

**BACHELOR OF ENGINEERING** 

- China National Scholarship (Top 0.2%)
- Outstanding Graduates

# Publications \_\_\_\_\_

PUBLISHED (6 CVPR, 1 ECCV, 1 AAAI, AND 1 TIP)

- [1]. **Kai Wang**, Bo Zhao, Xiangyu Peng, Zheng Zhu, Shuo Yang, Shuo Wang, Guan Huang, Hakan Bilen, Xinchao Wang, and Yang You. 2022. **CAFE: Learning to Condense Dataset by Aligning Features**. IEEE/CVF Conference on Computer Vision and Pattern Recognition.
- [2]. Kai Wang, Shuo Wang, Panpan Zhang, Zhipeng Zhou, Zheng Zhu, Xiaobo Wang, Xiaojiang Peng, Baigui Sun, Hao Li, and Yang You. 2022. An Efficient Training Approach for Very Large Scale Face Recognition. IEEE/CVF Conference on Computer Vision and Pattern Recognition.
- [3].Xiangyu Peng\*, Kai Wang\*, Zheng Zhu, Mang Wang, and Yang You. 2022. Crafting Better Contrastive Views for Siamese Representation Learning. IEEE/CVF Conference on Computer Vision and Pattern Recognition. Equal Contribution.
- [4].Wangbo Zhao, Kai Wang, Xiangxiang Chu, Fuzhao Xue, Xinchao Wang, and Yang You. 2022. Modeling Motion with Multi-Modal Features for Text-Based Video Segmentation. IEEE/CVF Conference on Computer Vision and Pattern Recognition.
- [5]. Shiming Chen, Ziming Hong, Guosen Xie, Wenhan Yang, Qinmu Peng, Kai Wang, Jian Zhao, Xinge You. 2022. MSDN: Mutually Semantic Distillation Network for Zero-Shot Learning. IEEE/CVF Conference on Computer Vision and Pattern Recognition.
- [6]. Jianfei Yang, Zhaoyang Zeng, Kai Wang, Han Zou, Lihua Xie. 2021. **GarbageNet: a unified learning framework for robust garbage classification**. IEEE Transactions on Artificial Intelligence.
- [7]. Chunmei Feng, **Kai Wang**, Shijian Lu, Yong Xu, Xuelong Li. 2021. **Brain MRI Super-Resolution using Coupled-Projection Residual Network**. Neurocomputing.
- [8]. Kai Wang, Xiaojiang Peng, Jianfei Yang, Shijian Lu, Yu Qiao. 2020. Suppressing Uncertainties for Large-Scale Facial Expression Recognition. IEEE/CVF Conference on Computer Vision and Pattern Recognition, 6897-6906.
- [9]. Kai Wang, Xiaojiang Peng, Jianfei Yang, Debin Meng, Yu Qiao. 2020. Region Attention Networks for Pose and Occlusion Robust Facial Expression Recognition. IEEE Transactions on Image Processing, 4057-4069.
- [10].Xiaojiang Peng\*, Kai Wang\*, Zhaoyang Zeng\*, Qing Li, Jianfei Yang, Yu Qiao. 2020. Suppressing Mislabeled Data via Grouping and Self-Attention. European Conference on Computer Vision, 786-802. Equal Contribution
- [11]. Kai Wang, Xiaoxing Zeng, Jianfei Yang, Debin Meng, Kaipeng Zhang, Xiaojiang Peng, Yu Qiao. 2018. Cascade Attention Networks for Group Emotion Recognition with Face, Body and Image Cues. 20th ACM International Conference on Multimodal Interaction, 640-645.

- [12]. Kai Wang, Jianfei Yang, Da Guo, Kaipeng Zhang, Xiaojiang Peng, Yu Qiao. 2019. Bootstrap model ensemble and rank loss for engagement intensity regression. 21th ACM International Conference on Multimodal, 551-556.
- [13].Da Guo\*, **Kai Wang**\*, Jianfei Yang, Kaipeng Zhang, Xiaojiang Peng, Yu Qiao. 2019. **Exploring Regularizations with Face, Body and Image Cues for Group Cohesion Prediction**. 21th ACM International Conference on Multimodal, 557-561. Equal Contribution
- [14].Sijie Ji\*, Kai Wang\*, Xiaojiang Peng, Jianfei Yang, Zhaoyang Zeng, Yu Qiao. 2020. Multiple Transfer Learning and Multi-Label Balanced Training Strategies for Facial AU Detection in the Wild. IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops, 414-418. Equal Contribution
- [15].Junhao Liu, Kai Wang, Chunpu Xu, Zhou Zhao, Ruifeng Xu, Ying Shen, Min Yang. 2020 Interactive Dual Generative Adversarial Networks for Image Captioning. AAAI, 11588-11595.
- [16].Xingyu Fan, Zhongying Deng, **Kai Wang**, Xiaojiang Peng, Yu Qiao. 2020. **Learning Discriminative Representation For Facial Expression Recognition From Uncertainties**. IEEE International Conference on Image Processing (ICIP), 903-907.
- [17]. Debin Meng, Xiaojiang Peng, Kai Wang, Yu Qiao. 2019. Frame attention networks for facial expression recognition in videos. IEEE International Conference on Image Processing (ICIP), 3866-3870.
- [18].Jianfei Yang, Kai Wang, Xiaojiang Peng, Yu Qiao. 2018. Deep recurrent multi-instance learning with spatio-temporal features for engagement intensity prediction. 20th ACM International Conference on Multimodal Interaction, 594-598.
- [19].Lianzhi Tan, Kaipeng Zhang, **Kai Wang**, Xiaoxing Zeng, Xiaojiang Peng, Yu Qiao. 2017. **Group emotion recognition with individual facial emotion CNNs and global image based CNNs**. 19th ACM International Conference on Multimodal Interaction, 549-552.

Intern		
6 months	Huawei Cloud, Huawei Technology Company	Research Intern
12 months	Alibaba DAMO Acadmey, Alibaba Group	Research Intern
Awards_		
2021	ICCV Masked Face Recognition Challenge, ICCV Committee	Champion
2020	CVPR2020-AU Detection Challenge, CVPR Committee	Тор3
2019	2019 National AI Challenge, Person-Reid, Top6 (6/2518), Shenzhen Gov.	\$ 30,000
2019	2019 Garbage Classification Challenge, Top1 (1/2611), Huawei Company	\$ 30,000
2019	2019 Emotiw V-A Emotion Recognition, ICMI	Rank 3th
2019	2019 Emotiw Group Cohesion Recognition, ICMI	Rank 2nd
2018	Pacific Earthquake Engineering Research ImageNet, PEER	Champion
2018	2018 Emotiw Engagement Recognition, ICMI	Champion
2018	2018 Emotiw Group Emotion Recognition, ICMI	Rank 2nd
2017	2017 Emotiw Group Emotion Recognition, ICMI	Champion
2016	National Entrepreneurship Competition, Zhuhai, Zhuhai Gov.	Тор20