

LEI KE

HKUST, Clearwater Bay, Kowloon, Hong Kong

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EDUCATION

The Hong Kong University of Science and Technology

Sept 2019 - Present

Ph.D. in Computer Science and Engineering

Advisor: Prof. Chi-Keung TANG and Yu-Wing TAI

Wuhan University, China

Sept 2014 - June 2018

Bachelor of Software Engineering, Computer Science School

GPA: 3.65/4.0, Top 5%

RESEARCH INTEREST

- 3D Perception, Understanding and Modeling
- Instance Segmentation, Image & Video Captioning, Multi-Modal Learning

PUBLICATIONS

- Li, S., **Ke, L.**, Pratama, K., Tai, Y., Tang, C. & Cheng, T. *Cascaded Deep Monocular 3D Human Pose Estimation with Evolutionary Training Data*. IEEE Conf. on Computer Vision and Pattern Recognition (**CVPR**), 2020.
- **Ke, L.**, Pei, W., Li, R., Shen, X. & Tai, Y. *Reflective Decoding Network for Image Captioning*. IEEE International Conf. in Computer Vision (**ICCV**), 2019.
- Pei, W., Zhang, J., Wang, X., **Ke, L.**, Shen, X. & Tai, Y. *Memory-Attended Recurrent Network for Video Captioning*. IEEE Conf. on Computer Vision and Pattern Recognition (**CVPR**), 2019.

EXPERIENCE

HKUST, Hong Kong | Research Assistant

Sept 2019 - Present

Advisor: Prof. Chi-Keung TANG and Yu-Wing TAI

Working on 3D perception and instance segmentation. Two papers submitted to ECCV, 2020.

Tencent Youtu X-Lab, Shenzhen | Research Intern

Nov 2017 - Aug 2019

Advisor: Prof. Yu-Wing TAI and Dr. Xiaoyong Shen

Worked on the task of image and video captioning. Designed the Reflective Decoding Network (RDN) for image captioning, which enhances both the long sequence dependency and position perception of words in a caption decoder, achieving the state-of-the-art performance in both standard and complicated image captioning.

Alibaba Group, Hangzhou | Engineering Intern

June 2017 - Oct 2017

Worked on the product data mining and recommendation system for Taobao department.

Wuhan University, Wuhan | Research Assistant

May 2016 - Feb 2017

Advisor: Prof. Xiaohui Cui

Utilized traditional machine learning algorithms to conduct the sentiment analysis with social media data.

AWARDS

- Postgraduate Studentship, HKUST *2019-present*
- COMAP's Mathematical Contest in Modeling, Honorable Prize. *2017*
- Excellent Student Scholarship, Wuhan University *2015-2017*
- National Software Design Competition, Second Prize. *2017*
- National Inspirational Scholarship, Wuhan University *2016*
- National College Students' Mathematics Competition, Third Prize *2015*

SKILLS AND INTERESTS

- Deep Learning Platform: PyTorch, TensorFlow, Caffe and MXNet
- Language: Mandarin(native), English(fluent)
- Programming Language: Python, C/C++, Java, C#, JavaScript.