

# LEI KE

HKUST, Clearwater Bay, Kowloon, Hong Kong

<http://www.kelei.site> ♦ [keleiwlu@gmail.com](mailto:keleiwlu@gmail.com)

## EDUCATION

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**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

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- 3D Scene Understanding and Reconstruction
- Instance Segmentation, Image & Video Captioning, Multi-Modal Learning

## PUBLICATIONS

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- 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

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**HKUST, Hong Kong** | Research Assistant

*Sept 2019 - Present*

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

Working on 3D scene reconstruction 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 image and video captioning. Proposed the Reflective Decoding Network (RDN) for image captioning, accepted by ICCV2019, 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

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- 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

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