LEI ZHOU

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EDUCATION

Hong Kong University of Science and Technology *Sep. 2015 - Jun. 2020 (expected)*
Ph.D. candidate - The Department of Computer Science & Engineering
Advisor: Prof. Long Quan

Zhejiang University, Mainland China *Sep. 2011 - Jul. 2015*
B.S. - College of Information Science & Electronic Engineering
GPA: 3.88 / 4.0

EXPERIENCE

Computer Vision & Graphics Lab, HKUST *Sep. 2015 - present*
PhD Candidate *Hong Kong*

- Advised by Prof. Long Quan
- Area: Large-Scale 3D reconstruction; Feature matching; Structure from Motion; SLAM; Point cloud registration
  - Participating in building the online 3D reconstruction system: https://www.altizure.com/

Mobile Computing Group,
Intel Asia-Pacific Research & Development Ltd. *Jul. 2014 - May 2015*
Research Intern *Shanghai*

- Advised by Manager Haicheng Li
- Area: Android System Development
  - Designed a profiling tool monitoring mobile devices' power consumption based on process scheduling.

PUBLICATIONS

- "Learning Fully Dense Neural Networks for Image Semantic Segmentation", AAAI 2019
  Mingmin Zhen, Jinglu Wang, **Lei Zhou**, Tian Fang, Long Quan
- "Learning and Matching Multi-View Descriptors for Registration of Point Clouds", ECCV 2018
  Lei Zhou, Siyu Zhu, Zixin Luo, Tianwei Shen, Runze Zhang, Mingmin Zhen, Tian Fang, Long Quan
- "GeoDesc: Learning Local Descriptors by Integrating Geometry Constraints", ECCV 2018
  Zixin Luo, Tianwei Shen, **Lei Zhou**, Siyu Zhu, Runze Zhang, Yao Yao, Tian Fang, Long Quan
- "Distributed Very Large Scale Bundle Adjustment by Global Camera Consensus", TPAMI 2018
  Runze Zhang, Siyu Zhu, Tianwei Shen, **Lei Zhou**, Zixin Luo, Tian Fang and Long Quan
- "Very Large-Scale Global SfM by Distributed Motion Averaging", CVPR 2018
  Siyu Zhu, Runze Zhang, **Lei Zhou**, Tianwei Shen, Tian Fang, Ping Tan, Long Quan
- "Progressive Large Scale-Invariant Image Matching in Scale Space", ICCV 2017
  Lei Zhou, Siyu Zhu, Tianwei Shen, Jinglu Wang, Tian Fang, Long Quan
- "Parallel Structure from Motion from Local Increment to Global Averaging", arXiv:1702.08601
  Siyu Zhu, Tianwei Shen, **Lei Zhou**, Runze Zhang, Jinglu Wang, Tian Fang, Long Quan

TECHNICAL PROFICIENCY

Programming	C/C++, Python, Java
Libraries & APIs	OpenCV, OpenGL, Caffe, Tensorflow, CUDA