KANG DU

◇ **Homepage:** https://dukang4655.github.io/ ◇ **Email:** dukang4655@gmail.com

Beijing University of Technology *September 2014 - June 2018*
Bachelor of Science in Engineering, Major in Electrical Engineering

Research Interest: Computer Vision, Medical Image Analysis, Medical Image Reconstruction

PUBLICATION

Du Kang Hui Zhang, et al. (2019). "Coronary artery tree segmentation using multi-class Graph Cuts and mathematical morphology". In: *Proc. IEEE Int. Symp. Biom. Imaging (Under Review)*.

WORK EXPERIENCE

Department of Algorithm **Imsight Medical Tech, Beijing**
Software algorithm Intern *Nov 2018 - present*

· Deep learning for medical image analysis.

MR Research, Clinical Science **Philips Healthcare, Beijing**
Summer Intern *June 2018 - Sept 2018*

· Advise by Dr. Xiaoqi Wang.
· Investigated wavelet analysis.
· Investigated compressed sensing MRI.

RESEARCH EXPERIENCE

Developing Brain Research Laboratory **Children's National Medical Center, D.C**
Remote Research Intern *Sept 2018 - Present*

· Advised by Dr. Li Zhao.
· Focus on fetal and neonatal MRI technical developments, including computational models, novel fast imaging sequence and reconstruction algorithm.

Signal and Information Processing Laboratory **Beijing University of Technology**
Undergraduate Researcher *June 2016 - July 2018*

· Advised by Dr. Hui Zhang.
· Tested state-of-art schemes for lung motion registration.
· Developed a GUI software to visualize 3D motion of coronary artery.
· Proposed an algorithm for automatic 3D vascular structure segmentation based on Graph Cuts.
· Proposed an algorithm for interactive 3D+t vascular structure segmentation based on Minimal Path Method.

HOROURS & AWARDS

National Undergraduate Mathematical Contest in Modeling, Beijing: First Prize *Summer 2017*
ACM Programming Contest at BJUT (Ranking: 1/200) *Fall 2017*
Academic Excellence Scholarship *2014-2016*
Merit Student (top 2%) *2014-2015*