

# XIAOWEI HU

Email: [xw.hu@cse.cuhk.edu.hk](mailto:xw.hu@cse.cuhk.edu.hk) ◊ Homepage: <https://xw-hu.github.io/>

Address: Rm 1024, SHB, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong.

## EDUCATION

---

**The Chinese University of Hong Kong, Ph.D.** in Computer Science and Engineering. 08/2016 - Present  
Advisor: Prof. Pheng-Ann Heng Expected graduation date: 07/2020  
Research interests: Computer Vision, Deep Learning.

**South China University of Technology, B.Eng.** in Computer Science and Technology. 09/2012 - 07/2016  
**GPA: 3.95/4.0** (*Rank 1<sup>st</sup>* in All-English-Teaching Union Class)  
★ Selected by SCUT for a special class for the most promising students.

## PUBLICATIONS

- 
- [1] *Direction-aware Spatial Context Features for Shadow Detection*  
**Xiaowei Hu**, Lei Zhu, Chi-Wing Fu, Jing Qin, and Pheng-Ann Heng  
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018 (**Oral**)
  - [2] *Recurrently Aggregating Deep Features for Salient Object Detection*  
**Xiaowei Hu**, Lei Zhu, Jing Qin, Chi-Wing Fu, and Pheng-Ann Heng  
AAAI Conference on Artificial Intelligence (**AAAI**), 2018 (**Spotlight**)
  - [3] *SINet: A Scale-insensitive Convolutional Neural Network for Fast Vehicle Detection*  
**Xiaowei Hu**, Xuemiao Xu, Yongjie Xiao, Hao Chen, Shengfeng He, Jing Qin, and Pheng-Ann Heng  
IEEE Transactions on Intelligent Transportation Systems (**T-ITS**) (Under Review)
  - [4] *R<sup>3</sup>Net: Recurrent Residual Refinement Network for Saliency Detection*  
Zijun Deng, **Xiaowei Hu**, Lei Zhu, Xuemiao Xu, Jing Qin, Guoqiang Han, and Pheng-Ann Heng  
International Joint Conference on Artificial Intelligence (**IJCAI**), 2018 (Under Review)
  - [5] *Bi-directional Feature Pyramid Network with Recurrent Attention Residual Modules For Shadow Detection*  
Lei Zhu, Zijun Deng, **Xiaowei Hu**, Chi-Wing Fu, Xuemiao Xu, Jing Qin, and Pheng-Ann Heng  
European Conference on Computer Vision (**ECCV**), 2018 (Under Review)
  - [6] *Deep Attentional Features for Prostate Segmentation in Ultrasound*  
Yi Wang, Zijun Deng, **Xiaowei Hu**, Lei Zhu, Xin Yang, Xuemiao Xu, Pheng-Ann Heng, and Dong Ni  
Medical Image Computing and Computer Assisted Intervention (**MICCAI**), 2018 (Under Review)
  - [7] *AGNet: Attention-Guided Network for Surgical Tool Presence Detection*  
**Xiaowei Hu**, Lequan Yu, Hao Chen, Jing Qin, and Pheng-Ann Heng  
Deep Learning in Medical Image Analysis and Multimodal Learning for Clinical Decision Support, pp.186-194, 2017

## HONORS AND AWARDS

---

<b>Hong Kong Ph.D. Fellowship</b> (Highest scholarship for students study in Hong Kong)	2016 - 2020
<b>Top 10 Outstanding Students</b> at SCUT ( <i>Rank 1<sup>st</sup></i> , highest award for students at SCUT)	2016
<b>Google Excellence Scholarship</b> (1 of 58 winners in China)	2015
<b>Tencent Outstanding Scholarship</b> (the only undergraduate winner at SCUT)	2015
<b>National Scholarship</b> (Highest national wide scholarship for undergraduate students in China)	2013
<b>Gold Award</b> of Pan-Pearl-River-Delta University IT Project Competition in China	2016
<b>First Prize and Best Practical Award</b> of University IT Project Competition in Guangdong Province	2016
<b>First Prize</b> of Adolescents Science & Technology Innovation Contest in Hebei Province	2011

## PROFESSIONAL ACTIVITIES

### Teaching Assistant at CUHK

- ◊ CSCI5210: Advanced Topics in Computer Graphics and Visualization Spring 2018
- ◊ ENGG2020: Digital Logic and Systems Fall 2016, Fall 2017
- ◊ ENGG1410A: Linear Algebra and Vector Calculus for Engineers Spring 2017