

## Lequan YU

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CONTACT INFORMATION	Department of Computer Science and Engineering The Chinese University of Hong Kong Shatin, New Territories, Hong Kong	<b>Phone:</b> (852) 6484-4600 <b>Email:</b> <a href="mailto:lqyu@cse.cuhk.edu.hk">lqyu@cse.cuhk.edu.hk</a> <a href="http://www.cse.cuhk.edu.hk/~lqyu">www.cse.cuhk.edu.hk/~lqyu</a>
RESEARCH INTERESTS	Deep learning for 3D understanding, medical image computing, deep learning for point cloud analysis	
EDUCATION	<b>The Chinese University of Hong Kong</b> , Hong Kong	
	Ph.D., Computer Science and Engineering	Aug 2015 to Present
	• Advisor: Prof. Pheng-Ann Heng	Expected graduation date: <u>07/2019</u>
	<b>Zhejiang University</b> , Hangzhou, China	
	B.S., Computer Science	Aug 2011 to Jul 2015
	• Advisor: Prof. Deng Cai	
	• GPA: 91.1/100 (3.92/4.0), <b>Rank: 1/185</b>	
EXPERIENCE	<b>Research Intern</b>	Mar 2017 to Jul 2017
	Siemens Healthcare, Princeton, USA	
	Mentor: Dr. Kai Ma and Dr. Terrence Chen	
	Project: Body landmark detection from depth images via deep reinforcement learning	
	<b>Software Engineer</b>	Jan 2015 to Apr 2015
	Club Factory, a startup company in Hangzhou, China	
	Project: Use machine learning methods to predict product sale for electricity company	
	<b>Research Assistant</b>	Sep 2013 to Jun 2015
	State Key Laboratory of CAD & CG, Zhejiang University, China	
	Supervisor: Prof. Deng Cai	
CONFERENCE PUBLICATIONS	<ol style="list-style-type: none"><li>1. <b>Lequan Yu*</b>, Xianzhi Li*, Chi-Wing Fu, Daniel Cohen-Or, Pheng-Ann Heng. "EC-Net: an Edge-aware Point set Consolidation Network." <i>ECCV</i>, 2018.</li><li>2. <b>Lequan Yu*</b>, Xianzhi Li*, Chi-Wing Fu, Daniel Cohen-Or, Pheng-Ann Heng. "PU-Net: Point Cloud Upsampling Network." <i>CVPR</i>, 2018.</li><li>3. Xiaomeng Li, <b>Lequan Yu</b>, Hao Chen, Qi Dou, Chi-Wing Fu, Pheng-Ann Heng. "Semi-supervised Skin Lesion Segmentation via Transformation Consistent Self-ensembling Model." <i>BMVC</i>, 2018</li><li>4. <b>Lequan Yu</b>, Jie-Zhi Cheng, Qi Dou, Xin Yang, Hao Chen, Jing Qin, Pheng-Ann Heng. "Automatic 3D Cardiovascular MR Segmentation with Densely-Connected Volumetric ConvNets." <i>MICCAI</i>, 2017.</li><li>5. <b>Lequan Yu</b>, Xin Yang, Hao Chen, Jing Qin, Pheng-Ann Heng. "Volumetric ConvNets with Mixed Residual Connections for Automated Prostate Segmentation from 3D MR Images." <i>AAAI</i>, 2017. <b>(Oral)</b></li><li>6. Xin Yang, <b>Lequan Yu</b>, Shengli Li, Xu Wang, Na Wang, Jing Qin, Dong Ni, Pheng-Ann Heng. "Towards Automatic Semantic Segmentation in Volumetric Ultrasound." <i>MICCAI</i>, 2017.<b>(Oral)</b></li><li>7. Xin Yang, <b>Lequan Yu</b>, Lingyun Wu, Yi Wang, Dong Ni, Jing Qin, Pheng-Ann Heng. "Fine-grained Recurrent Neural Networks for Automatic Prostate Segmentation in Ultrasound Images." <i>AAAI</i>, 2017. <b>(Oral)</b></li></ol>	

JOURNAL  
PUBLICATIONS

8. Hao Chen, Xiaojuan Qi, **Lequan Yu**, Pheng-Ann Heng. "DCAN: Deep Contour-Aware Networks for Accurate Gland Segmentation." *CVPR*, 2016.
9. Hao Chen\*, **Lequan Yu**\*, Qi Dou, et al. "Automatic Detection of Cerebral Microbleeds via Deep Learning Based 3D Feature Representation." *ISBI*, 2015. **(Oral)**
1. **Lequan Yu**, Hao Chen, Qi Dou, Jing Qin, Pheng-Ann Heng. "Automated Melanoma Recognition in Dermoscopy Images via Very Deep Residual Networks." *IEEE Transactions on Medical Imaging (TMI)*, 2017
2. **Lequan Yu**\*, Hao Chen\*, Qi Dou, Jing Qin, Pheng-Ann Heng. "Integrating Online and Offline 3D Deep Learning for Automated Polyp Detection in Colonoscopy Videos." *IEEE Journal of Biomedical and Health Informatics (J-BHI)*, 2017.
3. Qi Dou, **Lequan Yu**, Hao Chen, Yueming Jin, Xin Yang, Jing Qin, Pheng Ann Heng. "3D Deeply Supervised Network for Automated Segmentation of Volumetric Medical Images." *Medical Image Analysis (MedIA)*, 2017
4. Yueming Jin, Qi Dou, Hao Chen, **Lequan Yu**, Jing Qin, Pheng Ann Heng. "SV-RCNet: Workflow Recognition from Surgical Videos using Recurrent Convolutional Network." *IEEE Transactions on Medical Imaging (TMI)*, 2017
5. Hao Chen, Qi Dou, **Lequan Yu**, Jing Qin, Pheng Ann Heng. "VoxResNet: Deep Voxelwise Residual Networks for Volumetric Brain Segmentation." *NeuroImage*, 2017
6. Hao Chen, Xiaojuan Qi, **Lequan Yu**, Qi Dou, Jing Qin, Pheng-Ann Heng. "DCAN: Deep contour-aware networks for object instance segmentation from histology images." *Medical Image Analysis (MedIA)*, 2017.
7. Qi Dou, Hao Chen, **Lequan Yu**, Jing Qin, Pheng-Ann Heng. "Multi-level Contextual 3D CNNs for False Positive Reduction in Pulmonary Nodule Detection." *IEEE Transactions on Biomedical Engineering (TBME)*, 2016.
8. Qi Dou, Hao Chen, **Lequan Yu**, et al. "Automatic Detection of Cerebral Microbleeds from MR Images via 3D Convolutional Neural Networks." *TMI*, 2016.

SELECT HONORS  
AND AWARDS

Scholarships & Awards

- AAAI 2017 Scholarship, San Fransisco, USA
- China National Scholarship (1.8 %), 2012, 2013, 2014
- The He Zhijun Scholarship, 2014  
*Only one student selected from about 300 undergraduates in Computer College.*
- Kwanjeong Educational Foundation Scholarship, 2012, 2013, 2014
- Meritorious Winner, Interdisciplinary Contest in Modeling(ICM), Consortium for Mathematics and Its Application, 2014
- The Outstanding Undergraduate Award, awarded by China Computer Federation, 2014  
*Only selected 100 undergraduates every year in China*
- Outstanding Graduates of Zhejiang University and Zhejiang Province

TEACHING  
EXPERIENCE

- CSCI1130 Introduction to Computing Using Java Fall 2015
- CSCI3180 Principles of Programming Languages Spring 2016
- ENGG5108 Big Data Analytics Fall 2016
- CSCI3150 Introduction to Operating Systems Spring 2017, Fall 2017, Spring 2018

SKILLS

- **Programming:** Python, C/C++, MATLAB
- **Tools:** TensorFlow, Caffe, Linux Shell, VTK