

Xin Yang

CONTACT INFORMATION	Department of Computer Science and Engineering The Chinese University of Hong Kong Shatin, New Territories, Hong Kong	Phone: (852) 5374-4095 Email: xinyang@cse.cuhk.edu.hk Homepage
RESEARCH INTERESTS	medical image computing, intelligent ultrasound, surgical simulation and computer graphics	
EDUCATION	The Chinese University of Hong Kong , Hong Kong	
	Ph.D., Computer Science and Engineering	Aug 2015 to Present
	• Advisor: Prof. Pheng-Ann Heng	
	Shenzhen University , Shenzhen, China	
	M.S., Biomedical Engineering	Aug 2012 to Jul 2015
	• Advisor: Prof. Dong Ni	
	South-Central University for Nationalities , Wuhan, China	
	B.S., Biomedical Engineering	Sept 2008 to Jul 2012
	• Graduated with top rank and National Scholarship.	
EXPERIENCE	<ul style="list-style-type: none">• Visiting student, IDEA Lab, University of North Carolina at Chapel Hill, NC, USA Advisor: Prof. Dinggang Shen• Student Volunteer (150/500), Siggraph Asia, 2013, Hong Kong• <i>FreeScale</i> SmartCar Contest. Teamed up with an infrared laser guided autonomous car, 2011, China	
CONFERENCE PUBLICATIONS	<ol style="list-style-type: none">1. Xin Yang, Lequan Yu, Qi Dou, Jing Qin, Pheng-Ann Heng. "Deep Convolutional Networks for Automated Volumetric Cardiovascular Image Segmentation: From a Design Perspective". <i>Book Chapter Invitation: Cardiovascular Imaging: An Engineering and Clinical Perspective</i>, In preparing, 2018.2. Xin Yang, Lequan Yu, Shengli Li, Xu Wang, Na Wang, Jing Qin, Dong Ni, Pheng-Ann Heng. "Towards Automatic Semantic Segmentation in Volumetric Ultrasound." <i>MICCAI(oral)</i>, 2017.3. Lequan Yu, 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>, 2017.4. Lequan Yu, 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>, 2017.5. Xin Yang, Lequan Yu, 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>, 2017.6. Xin Yang, Cheng Bian, Lequan Yu, Dong Ni, Pheng-Ann Heng. "Hybrid Loss Guided Convolutional Networks for Whole Heart Parsing." <i>MICCAI Workshop on Multi-Modality Whole Heart Segmentation</i>, 2017 (rank second in CT segmentation phase).	

	<ol style="list-style-type: none"> Lingyun Wu, Xin Yang, Shengli Li, Tianfu Wang, Pheng-Ann Heng, Dong Ni. "Cascaded Fully Convolutional Networks for Automatic Prenatal Ultrasound Image Segmentation." <i>International Symposium on Biomedical Imaging</i>, 2017. Guodong Zeng, Xin Yang, Jing Li, Lequan Yu, Pheng-Ann Heng, Guoyan Zheng. "3D U-net with Multi-level Deep Supervision: Fully automatic segmentation of Proximal Femur in 3D MR Images." <i>MICCAI Workshop on Machine Learning in Medical Imaging</i>, 2017. Lequan Yu, Xin Yang, Jing Qin, Pheng-Ann Heng. "3D FractalNet: Dense Volumetric Segmentation for Cardiovascular MRI Volumes." <i>MICCAI Workshop on Whole-Heart and Great Vessel Segmentation from 3D Cardiovascular MRI in Congenital Heart Disease</i>, 2016 (rank first in the Challenge).
JOURNAL PUBLICATIONS	<ol style="list-style-type: none"> 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." <i>Medical Image Analysis (MedIA)</i>, 2017. Hao Chen, Dong Ni, Jing Qin, Shengli Li, Xin Yang, Tianfu Wang, Pheng-Ann Heng. "Standard Plane Localization in Fetal Ultrasound via Domain Transferred Deep Neural Networks." <i>IEEE Journal of Biomedical and Health Informatics (J-BHI)</i>, 2015. Dong Ni, Xin Yang, Xin Chen, Chien-Ting Chin, Siping Chen, Pheng-Ann Heng, Shengli Li, Jing Qin, Tianfu Wang. "Standard Plane Localization in Ultrasound by Radial Component Model and Selective Search." <i>Ultrasound in Medicine & Biology (UMB)</i>, 2014.
SELECT HONORS AND AWARDS	<p>Scholarships & Honors</p> <ul style="list-style-type: none"> 2017, AAAI Scholarship, San Fransisco, USA 2014, Tencent Founder Innovative Scholarship, Tencent Co.,Ltd, China 2010, National Scholarship (1.8 %), China <p>Awards & Prizes</p> <ul style="list-style-type: none"> 2012, Outstanding Bachelor Thesis Award, Hubei Province, China 2011, Third Prize of SmartCar Competition (supported by Freescale Co.,Ltd), South-Central University for Nationalities, China
TEACHING EXPERIENCE	<ul style="list-style-type: none"> 2017-2018 Fall, CSCI3260 Principles of Computer Graphics 2016-2017 Spring, ENGG1410 Linear Algebra and Vector Calculus for Engineers 2016-2017 Fall, CSCI3260 Principles of Computer Graphics 2015-2016 Spring, CSCI3170 Introduction to Database Systems 2015-2016 Fall, CSCI3160 Design and Analysis of Algorithms
SKILLS	<ul style="list-style-type: none"> Programming: C/C++, MATLAB, Python, OpenGL Tools: Theano, TensorFlow, Caffe, VTK/ITK