

Xiaolong ZHU

CONTACT INFORMATION	Room 411, CYC Bldg Department of Computer Science The University of Hong Kong Hong Kong SAR	Mobile: +852-9768-5403 Skype: lucienzhu@hotmail.com E-mail: lucienzhu@gmail.com WWW: xiaolongzhu.org
RESEARCH INTERESTS	Computer Vision , including <i>Hand Detection</i> , <i>Posture Recognition</i> ; Machine Learning , including <i>Random Forest</i> , <i>SVM</i> , <i>Restricted Boltzmann Machine</i> ; Human-Computer Interaction , including <i>Gestural Interface</i> .	
EDUCATION	The University of Hong Kong , Ph.D. Candidate, <i>Computer Science</i> , <ul style="list-style-type: none">• Advisor: Dr. Kenneth K. Y. Wong	Hong Kong SAR, China September 2010 - present
	Peking University , B.S., <i>Intelligence Science and Technology</i> <ul style="list-style-type: none">• Thesis Title: Segmentation and Classification of Range Image.• <i>Excellent Undergraduate Thesis Award</i>.• Advisor: Dr. Huijing Zhao	Beijing, China September 2006 - June 2010
PUBLICATIONS	<p>[Refereed Conference Papers]</p> <ol style="list-style-type: none">1. Xiaolong Zhu, Xuhui Jia and Kwan-Yee K. Wong. Pixel-Level Hand Detection with Shape-aware Structured Forests. <i>Asian Conference on Computer Vision (ACCV)</i>, 2014.2. Xiaolong Zhu, Ruoxin Sang, Xuhui Jia and Kwan-Yee K. Wong. A Hand Shape Recognizer from Simple Sketches. <i>International Conference on Image and Vision Computing New Zealand (IVCNZ)</i>, 2013.3. Xuhui Jia, Xiaolong Zhu, Angran Lin and Kwok-Ping Chan. Face Alignment using Structured Random Regressors Combined with Statistical Shape Model Fitting. <i>International Conference on Image and Vision Computing New Zealand (IVCNZ)</i>, 2013.4. Xiaolong Zhu, Kwan-Yee K. Wong. Single-Frame Hand Gesture Recognition Using Color and Depth Kernel Descriptors. <i>IEEE International Conference on Pattern Recognition (ICPR)</i>, 2012.5. Zhihu Chen, Kwan-Yee K. Wong, Yasuyuki Matsushita, Xiaolong Zhu, Miaomiao Liu. Self-Calibrating Depth from Refraction. <i>IEEE International Conference on Computer Vision (ICCV)</i>, 2011.6. Xiaolong Zhu, Huijing Zhao, Yiming Liu, Yipu Zhao, Hongbin Zha. Segmentation and Classification of Range Image from an Intelligent Vehicle in Urban Environment. <i>IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)</i>, 2010.7. Huijing Zhao, Yiming Liu, Xiaolong Zhu, Yipu Zhao, Hongbin Zha. Scene Understanding in a Large Dynamic Environment through a Laser-based Sensing. <i>IEEE International Conference on Robotics and Automation (ICRA)</i>, 2010. <p>[Journal Papers]</p> <ol style="list-style-type: none">1. Xiaolong Zhu, Xuhui Jia, Kwan-Yee K. Wong. Structured Forests for Pixel-level Hand Detection and Hand Part Labelling. <i>Computer Vision and Image Understanding (CUIV)</i>, In review.	

2. Zhihu Chen, Kwan-Yee K. Wong, Yasuyuki Matsushita, **Xiaolong Zhu**. Depth from Refraction Using a Transparent Medium with Unknown Pose and Refractive Index. *International Journal of Computer Vision (IJCV)*, 2012.

EXPERIENCE	Lenovo IVC Lab,	Hong Kong SAR, China
	<i>Research Intern</i>	June 2013 - August 2013
	<ul style="list-style-type: none"> • Innovated new ways for image searching. • Designed a prototype of touch-based image retrieval system and demonstrated it to CTO. 	
	Microsoft Research Asia,	Beijing, China
	<i>Research Intern</i>	June 2012 - September 2012
	<ul style="list-style-type: none"> • Learned HCI workflow of problem solving; • Designed visual feedback for in-air gesture recognition. 	
	Youdao.com,	Beijing, China
	<i>Software Engineer Intern</i>	June 2010 - August 2010
	<ul style="list-style-type: none"> • Coded web front-end of a Location-based Social Network Service; • Cooperated with web designer. 	
	Peking University,	Beijing, China
	<i>Undergraduate Research Assistant</i>	September 2008 - June 2010
	<ul style="list-style-type: none"> • Participated in the POSS project, in 3D VCR Lab; • Analyzed range data using computer vision methods. 	
TEACHING	The University of Hong Kong,	Hong Kong SAR, China
	<i>Teaching Assistant</i>	September 2010 - May 2014
	<ul style="list-style-type: none"> • Assisted Dr. Kenneth K.Y. Wong in Computer Vision; • Assisted Dr. Kenneth K.Y. Wong in Computer Programming and Applications; • Assisted Dr. Loretta Yi-King Choi in Topic in Computer Science: Visual Analysis. • Assisted Dr. Kenneth K.Y. Wong in Computer Vision; • Assisted Dr. Chun Kit Chui in Computer Programming and Applications; • Assisted Dr. Kenneth K.Y. Wong in Computer Programming and Applications; 	
AWARDS	<ul style="list-style-type: none"> • Studentship of the University of Hong Kong, 2010-2014; • Top 10 Undergraduate Thesis, School of EECS in Peking University, 2010; • Wusi Scholarship in Peking University, 2009; • Outstanding Volunteer in Beijing 2008 Olympic Games, 2008; • First Class Honor in China Physics Olympic Games, Gansu, 2006. 	
TECHNICAL SKILLS	<ul style="list-style-type: none"> • Programming in: C/C++, Matlab, JavaScript/HTML/CSS, Python; • Basic Experience in: Objective-C, Processing, UNIX Shell scripting; • Native Mandarin speaker, fluent in English, very little Japanese and Cantonese; • Operating Systems: Windows, Mac OS X. 	
SOCIAL ACTIVITIES	<ul style="list-style-type: none"> • Member of Information Technology Committee, The University of Hong Kong, 2012-2014; • IT Officer of Postgraduate Association (PGSA) in The University of Hong Kong, 2011-2013; • Volunteer as Media Assistant for Journalists in Games of the XXIX Olympiad, 2008. 	