

# Xiaolong ZHU

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CONTACT INFORMATION	Room 411, CYC Bldg Department of Computer Science The University of Hong Kong Hong Kong SAR	Mobile: +852-9768-5403 Skype: <a href="mailto:lucienzhu@hotmail.com">lucienzhu@hotmail.com</a> E-mail: <a href="mailto:lucienzhu@gmail.com">lucienzhu@gmail.com</a> WWW: <a href="http://xiaolongzhu.org">xiaolongzhu.org</a>
RESEARCH INTERESTS	<b>Computer Vision</b> , including <i>Hand Detection</i> , <i>Posture Recognition</i> ; <b>Machine Learning</b> , including <i>Random Forest</i> , <i>SVM</i> , <i>Restricted Boltzmann Machine</i> ; <b>Human-Computer Interaction</b> , including <i>Gestural Interface</i> .	
EDUCATION	<b>The University of Hong Kong</b> , Ph.D. Candidate, <i>Computer Science</i> , • Advisor: Dr. Kenneth K. Y. Wong	Hong Kong SAR, China <b>September 2010 - present</b>
	<b>Peking University</b> , B.S., <i>Machine Intelligence</i> • Thesis Title: Segmentation and Classification of Range Image. • <i>Excellent Undergraduate Thesis Award</i> . • Advisor: Dr. Huijing Zhao	Beijing, China <b>September 2006 - June 2010</b>
PUBLICATIONS	[Refereed Conference Papers] <ol style="list-style-type: none"><li>1. <b>Xiaolong Zhu</b>, 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.</li><li>2. <b>Xiaolong Zhu</b>, 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.</li><li>3. Xuhui Jia, <b>Xiaolong Zhu</b>, 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.</li><li>4. <b>Xiaolong Zhu</b>, 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.</li><li>5. Zhihu Chen, Kwan-Yee K. Wong, Yasuyuki Matsushita, <b>Xiaolong Zhu</b>, Miaomiao Liu. Self-Calibrating Depth from Refraction. <i>IEEE International Conference on Computer Vision (ICCV)</i>, 2011.</li><li>6. <b>Xiaolong Zhu</b>, 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.</li><li>7. Huijing Zhao, Yiming Liu, <b>Xiaolong Zhu</b>, 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.</li></ol> [Journal Papers] <ol style="list-style-type: none"><li>1. Zhihu Chen, Kwan-Yee K. Wong, Yasuyuki Matsushita, <b>Xiaolong Zhu</b>. Depth from Refraction Using a Transparent Medium with Unknown Pose and Refractive Index. <i>International Journal of Computer Vision (IJCV)</i>, 2012.</li></ol>	

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