

# 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>Multimedia</b> , including <i>Image Retrieval</i> , <i>Human-Computer Interaction</i> ; <b>Computer Vision</b> , including <i>Gesture Recognition</i> , <i>Object Recognition</i> ; <b>Machine Learning</b> , including <i>Random Forest</i> , <i>Restricted Boltzmann Machine</i> , <i>SVM</i> .	
EDUCATION	<b>The University of Hong Kong</b> , Ph.D. Candidate, <i>Computer Science</i> , <ul style="list-style-type: none"><li>Adviser: Dr. Kenneth K. Y. Wong</li></ul> <b>Peking University</b> , B.S., <i>Machine Intelligence</i> <ul style="list-style-type: none"><li>Thesis Title: Segmentation and Classification of Range Image.</li><li><i>Excellent Undergraduate Thesis Award</i>.</li><li>Advisor: Dr. Huijing Zhao</li></ul>	Hong Kong SAR, China Sept 2010 - present  Beijing, China Sept 2006 - June 2010
EXPERIENCE	<b>Lenovo IVC Lab</b> , <i>Research Intern</i> <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> , <i>Research Intern</i> <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> , <i>Software Engineer Intern</i> <ul style="list-style-type: none"><li>Coded web front-end of a <i>Location-based Social Network Service</i>;</li><li>Cooperated with web designer and developer.</li></ul> <b>Peking University</b> , <i>Undergraduate Research Assistant</i> <ul style="list-style-type: none"><li>Participated in the <i>POSS</i> project, in <i>3D VCR Lab</i>;</li><li>Analyzed range data using computer vision methods.</li></ul>	Hong Kong SAR, China June 2013 - Aug 2013  Beijing, China June 2012 - Sept 2012  Beijing, China June 2010 - Aug 2010  Beijing, China Sept 2008 - June 2010
PUBLICATIONS	[Refereed Conference Papers] <ol style="list-style-type: none"><li><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></ol>	

2. Xuhui Jia, **Xiaolong Zhu**, Angran Lin and Kwok-Ping Chan. Face Alignment using Structured Random Regressors Combined with Statistical Shape Model Fitting. *International Conference on Image and Vision Computing New Zealand (IVCNZ)*, 2013.
3. **Xiaolong Zhu**, Kwan-Yee K. Wong. Single-Frame Hand Gesture Recognition Using Color and Depth Kernel Descriptors. *IEEE International Conference on Pattern Recognition (ICPR)*, 2012.
4. Zhihu Chen, Kwan-Yee K. Wong, Yasuyuki Matsushita, **Xiaolong Zhu**, Miaomiao Liu. Self-Calibrating Depth from Refraction. *IEEE International Conference on Computer Vision (ICCV)*, 2011.
5. **Xiaolong Zhu**, Huijing Zhao, Yiming Liu, Yipu Zhao, Hongbin Zha. Segmentation and Classification of Range Image from an Intelligent Vehicle in Urban Environment. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2010.
6. Huijing Zhao, Yiming Liu, **Xiaolong Zhu**, Yipu Zhao, Hongbin Zha. Scene Understanding in a Large Dynamic Environment through a Laser-based Sensing. *IEEE International Conference on Robotics and Automation (ICRA)*, 2010.

[Journal Papers]

1. 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.

#### AWARDS

- 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.

#### TEACHING

**The University of Hong Kong.**

Sept 2010 - Dec 2013

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|---|-----------|
| • Computer Programming and Applications, <i>Teaching Assistant</i>      | Autumn 13 |
| • Topic in Computer Science: Visual Analysis, <i>Teaching Assistant</i> | Autumn 13 |
| • Computer Vision, <i>Tutor</i>   | Autumn 12 |
| • Computer Programming and Applications, <i>Teaching Assistant</i>      | Autumn 11 |
| • Computer Programming and Applications, <i>Tutor</i>                   | Autumn 10 |

#### TECHNICAL SKILLS

- Programming in: Matlab, C/C++, JavaScript/HTML/CSS;
- Basic Experience in: Python, Objective-C, Processing, UNIX Shell Scripting;
- Native Mandarin speaker, fluent in English, little Japanese and Cantonese;
- Operating Systems: Mac OS X, Microsoft Windows.

#### SOCIAL ACTIVITIES

- 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.