

Xiaolong ZHU

CONTACT INFORMATION	Room 411, CYC Bldg Department of Computer Science The University of Hong Kong Hong Kong SAR	<i>Mobile:</i> +852-9768-5403 <i>Skype:</i> lucienzhu@hotmail.com <i>E-mail:</i> lucienzhu@gmail.com <i>WWW:</i> xiaolongzhu.org
RESEARCH INTERESTS	Computer Vision , including <i>Object Detection</i> , <i>Posture Recognition</i> , <i>Image Labelling</i> ; Machine Learning , including <i>Random Forests</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">• Area of Study: Hand Detection and Posture Recognition• Adviser: Dr. Kenneth K. Y. Wong Peking University, B.S., <i>Machine Intelligence</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	Hong Kong SAR, China Sept 2010 - present Beijing, China Sept 2006 - June 2010
EXPERIENCE	Lenovo IVC Lab, <i>Research Intern</i> <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, <i>Research Intern</i> <ul style="list-style-type: none">• Learned HCI workflow of problem solving;• Designed visual feedback for in-air gesture recognition. Youdao.com, <i>Software Engineer Intern</i> <ul style="list-style-type: none">• Coded web front-end of a Location-based Social Network Service;• Cooperated with web designer and developer. Peking University. <i>Undergraduate Research Assistant</i> <ul style="list-style-type: none">• Participated in the <i>POSS</i> project, in 3D VCR Lab;• Analyzed range data using computer vision methods.	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]

1. **Xiaolong Zhu**, Xuhui Jia and Kwan-Yee K. Wong. Pixel-Level Hand Detection with Shape-aware Structured Forests. *Asian Conference on Computer Vision (ACCV)*, 2014.
2. **Xiaolong Zhu**, Ruoxin Sang, Xuhui Jia and Kwan-Yee K. Wong. A Hand Shape Recognizer from Simple Sketches. *International Conference on Image and Vision Computing New Zealand (IVCNZ)*, 2013.
3. 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.
4. **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.
5. 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.
6. **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.
7. 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;
- Third Prize, RoboCup Rescue, Hunan China, 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 - present

- Computer Vision, *Tutor* Spring 14
- Computer Programming and Applications, *Teaching Assistant* Autumn 13
- Topic in Computer Science: Visual Analysis, *Teaching Assistant* Autumn 13
- Computer Vision, *Tutor* Autumn 12
- Computer Programming and Applications, *Teaching Assistant* Autumn 11
- Computer Programming and Applications, *Tutor* Autumn 10

TECHNICAL SKILLS

- Programming in: Matlab, C/C++, JavaScript/HTML/CSS;
- Basic Experience in: Python, 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 [Block B Play Group](#), Residential College, 2014-present;
 - 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.