

Xiaolong ZHU

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RESEARCH INTERESTS	Multimedia , including <i>Sketch-based Image Retrieval</i> , <i>Human-Computer Interaction</i> ; Computer Vision , including <i>Gesture Recognition</i> , <i>Object Recognition</i> ; Machine Learning , including <i>Random Forest</i> , <i>Restricted Boltzmann Machine</i> , <i>Kernel Methods for SVM</i> .	
EDUCATION	The University of Hong Kong , Hong Kong SAR, China Ph.D. Candidate, <i>Computer Science</i> , September 2010 - present <ul style="list-style-type: none">• Adviser: Dr. Kenneth K. Y. Wong• Area of Study: Sketch-based Interface for Computer Vision Peking University , Beijing, China B.S., <i>Machine Intelligence</i> , September 2006 - June 2010 <ul style="list-style-type: none">• Thesis Title: Segmentation and Classification of Range Image.• <i>Excellent Undergraduate Thesis Award</i>.• Advisor: Dr. Huijing Zhao	
PUBLICATIONS	[Refereed Conference Papers] <ol style="list-style-type: none">1. 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>, 2013.2. 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>, 2013.3. 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>, 2012.4. 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>, 2011.5. 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>, 2010.6. 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. [Journal Papers] <ol style="list-style-type: none">1. Zhihu Chen, Kwan-Yee K. Wong, Yasuyuki Matsushita, Xiaolong Zhu. Depth from Refraction Using a Transparent Medium with Unknown Pose and Refractive Index. <i>International Journal of Computer Vision (IJCV)</i>, 2012.	

TEACHING
EXPERIENCE

The University of Hong Kong,

Hong Kong SAR, China

Teaching Assistant

September 2013 - December 2013

- Assisted Dr. Kenneth K.Y. Wong in Computer Programming and Applications;
- Provided office hours to first-year engineering students;
- Graded assignments on programming.
- Assisted Dr. Loretta Yi-King Choi in Topic in Computer Science: Visual Analysis.
- Designed tutorials for lab sessions.
- Graded assignments and assisted to evaluate final presentations of the students.

Teaching Assistant

September 2012 - December 2012

- Assisted Dr. Kenneth K.Y. Wong in Computer Vision;
- Gave weekly tutorials to third-year students;
- Designed and graded assignments.

Teaching Assistant

September 2011 - December 2011

- Assisted Dr. Chun Kit Chui in Computer Programming and Applications;
- Provided office hours to first-year engineering students;
- Graded assignments on programming.

Teaching Assistant

September 2010 - December 2010

- Assisted Dr. Kenneth K.Y. Wong in Computer Programming and Applications;
- Provided office hours and tutorials to first-year engineering students;
- Graded assignments on programming.

Peking University,

Beijing, China

Undergraduate Research Assistant

September 2008 - June 2010

- Participated in the *POSS* project, in 3D VCR Lab;
- Analyzed range data using computer vision methods.

PROFESSIONAL
EXPERIENCE

Lenovo IVC Lab,

Hong Kong SAR, China

Research Intern

June 2013 - August 2013

- 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

Research Intern

June 2012 - September 2012

- Learned HCI workflow of problem solving;
- Designed visual feedback for in-air gesture recognition.

NetEase R&D.,

Beijing, China

Software Engineer Intern

June 2010 - August 2010

- Coded web front-end of a *Location-based Social Network Service*;
- Cooperated with web designer.

HONORS & AWARDS

- Studentship of the University of Hong Kong, 2010-2013;
- 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
- Programming in: C/C++, Matlab, JavaScript, Python;
 - Basic Experience in: jQuery/HTML/CSS, Processing, UNIX Shell scripting;
 - Native Mandarin speaker, fluent in English, little Japanese and Cantonese;
 - Operating Systems: Microsoft Windows family, Mac OS X.
- SOCIAL ACTIVITIES
- Member of [Information Technology Committee](#), The University of Hong Kong, 2011-2013;
 - 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.