

CONTACT INFORMATION	University of Michigan Computer Science and Engineering 2260 Hayward Street Ann Arbor, MI 48109-2121	(734) 730-7701 <a href="mailto:ywchao@umich.edu">ywchao@umich.edu</a> <a href="http://www.umich.edu/~ywchao/">http://www.umich.edu/~ywchao/</a>
RESEARCH INTERESTS	Computer vision, machine learning, object/human action recognition, 3D scene understanding	
EDUCATION	<b>University of Michigan</b> , Ann Arbor, MI Ph.D. in <a href="#">Computer Science and Engineering</a> Advisor: Prof. Jia Deng	Sept 2013 – present
	<b>University of Michigan</b> , Ann Arbor, MI M.S. in <a href="#">Electrical Engineering: Systems</a> Advisor: Prof. Silvio Savarese	Sept 2011 – Apr 2013
	<b>National Chiao Tung University</b> , Hsinchu, Taiwan B.S. in <a href="#">Electronics Engineering</a> Minor in <a href="#">Applied Mathematics</a>	Sept 2005 – June 2009
	<b>Carnegie Mellon University</b> , Pittsburgh, PA International Exchange Program	Fall 2008
WORK EXPERIENCE	<b>Adobe Research</b> , San Jose, CA <i>Computer Vision Research Intern</i> <ul style="list-style-type: none"><li>• Mentors: Jimei Yang, Brian Price, Scott Cohen</li></ul>	June 2016 – present
	<b>University of Michigan</b> , Ann Arbor, MI <i>Graduate Student Research Assistant (GSRA)</i> <ul style="list-style-type: none"><li>• Visual recognition of human-object interactions</li><li>• Advisors: Prof. Jia Deng</li></ul>	Sep 2014 – present
	<b>DAQRI</b> , Mountain View, CA <i>Research Intern</i> <ul style="list-style-type: none"><li>• 3D scene understanding for augmented reality</li><li>• Mentors: Chris Broaddus, Wenyi Zhao, Byungsoo Kim</li></ul>	May 2014 – Aug 2014
	<b>Stanford University</b> , Stanford, CA <i>Visiting Student Researcher</i> <ul style="list-style-type: none"><li>• 3D layout estimation of indoor scenes</li><li>• Human group activity recognition</li><li>• Advisor: Prof. Silvio Savarese</li></ul>	July 2013 – Dec 2013
	<b>Academia Sinica</b> , Taipei, Taiwan <i>Research Assistant</i> <ul style="list-style-type: none"><li>• Image classification via sparse representation</li><li>• Supervised dictionary learning for sparse representation</li><li>• Mentor: Dr. Yu-Chiang Frank Wang</li></ul>	Aug 2010 – July 2011
CONFERENCE PUBLICATIONS	<b>HICO: A Benchmark for Recognizing Human-Object Interactions in Images</b> <i>International Conference on Computer Vision (ICCV) 2015</i> Yu-Wei Chao, Zhan Wang, Yugeng He, Jiaxuan Wang, Jia Deng	
	<b>Mining Semantic Affordances of Visual Object Categories</b> <i>Computer Vision and Pattern Recognition (CVPR) 2015</i> Yu-Wei Chao, Zhan Wang, Rada Mihalcea, Jia Deng	
	<b>Discovering Groups of People in Images</b> <i>European Conference on Computer Vision (ECCV) 2014</i> Wongun Choi, Yu-Wei Chao, Caroline Pantofaru, Silvio Savarese	

**Layout Estimation of Highly Cluttered Indoor Scenes using Geometric and Semantic Cues**  
*International Conference on Image Analysis and Processing (ICIAP) 2013 (Oral, 7.9% acceptance rate)*  
 Yu-Wei Chao, Wongun Choi, Caroline Pantofaru, Silvio Savarese

**Understanding Indoor Scenes using 3D Geometric Phrases**  
*Computer Vision and Pattern Recognition (CVPR) 2013 (Oral, 3.2% acceptance rate)*  
 Wongun Choi, Yu-Wei Chao, Caroline Pantofaru, Silvio Savarese

**Semantic Structure From Motion with Points, Regions, and Objects**  
*Computer Vision and Pattern Recognition (CVPR) 2012*  
 Sid Ying-Ze Bao, Mohit Bagra, Yu-Wei Chao, Silvio Savarese.

**Locality-constrained Group Sparse Representation for Robust Face Recognition**  
*International Conference on Image Processing (ICIP) 2011*  
 Yu-Wei Chao, Yi-Ren Yeh, Yu-Wen Chen, Yuh-Jye Lee, Yu-Chiang Frank Wang

JOURNAL  
PUBLICATIONS

**Indoor Scene Understanding with Geometric and Semantic Contexts**  
*International Journal of Computer Vision (IJCV) 2015*  
 Wongun Choi, Yu-Wei Chao, Caroline Pantofaru, Silvio Savarese

**Locality-Sensitive Dictionary Learning for Sparse Representation Based Classification**  
*Pattern Recognition 2013*  
 Chia-Po Wei, Yu-Wei Chao, Yi-Ren Yeh, Yu-Chiang Frank Wang

TEACHING  
EXPERIENCE

**Computer Vision (EECS 542)**, University of Michigan Fall 2014  
*Graduate Student Instructor (GSI)*

**Computer Vision (EECS 442)**, University of Michigan Fall 2012  
*Graduate Student Instructor (GSI)*

- Served as the only GSI for a class with 80+ student
- Taught weekly section on topics from class; demonstrated off-the-shelf softwares
- Managed an online forum for discussions; held office hours to provide individualized help

AWARDS AND  
HONORS

Google Ph.D. Fellowship 2016 – present  
 Qualcomm Innovation Fellowship Finalist April 2016  
 Rackham Conference Travel Grant, University of Michigan March 2015  
 Government Scholarships for Study Abroad (GSSA), Ministry of Education, Taiwan May 2011  
 Study Abroad Scholarship for Outstanding College Students, Ministry of Education, Taiwan Fall 2008  
 Academic Achievement Award, National Chiao Tung University Spring 2008

PROFESSIONAL  
SERVICE

Reviewer

- IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2016
- IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2016
- International IEEE Workshop on 3D Representation and Recognition (3dRR-13), 2013

Student Volunteer

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2013

OTHER  
ACHIEVEMENTS

Contributor to open source projects

- Caffe: a popular tool for Deep Learning

Technology Transfer - Industrial Technology Research Institutes, Hsinchu, Taiwan Dec 2011

- Sparse Representation Based Face Recognition Technology

SKILLS AND  
LANGUAGES

Programming Languages: MATLAB, Python, C/C++, UNIX shell scripting, JavaScript, and others  
 Libraries: Caffe, Torch, OpenCV  
 Operating Systems: Linux, Windows and Mac OS X  
 Languages: English, Chinese (Mandarin), and Taiwanese