

CONTACT INFORMATION	University of Michigan Computer Science and Engineering 2260 Hayward Street Ann Arbor, MI 48109-2121	(734) 730-7701 ywchao@umich.edu http://www.umich.edu/~ywchao/
RESEARCH INTERESTS	Computer vision, machine learning, object/activity recognition, 3D scene understanding	
EDUCATION	University of Michigan , Ann Arbor, MI Ph.D. in Computer Science and Engineering Advisor: Prof. Silvio Savarese	Sept 2013 to present
	University of Michigan , Ann Arbor, MI M.S. in Electrical Engineering: Systems Advisor: Prof. Silvio Savarese	Sept 2011 to Apr 2013 GPA: 3.96/4.00
	National Chiao Tung University , Hsinchu, Taiwan B.S. in Electronics Engineering Minor in Applied Mathematics	Sept 2005 to June 2009 GPA: 85.45/100.00
	Carnegie Mellon University , Pittsburgh, PA International Exchange Program	Fall 2008 GPA: 3.80/4.00
RESEARCH EXPERIENCE	Stanford University , Stanford, CA <i>Visiting Student Researcher</i> <ul style="list-style-type: none">• Human group activity recognition• Advisor: Prof. Silvio Savarese	July 2013 to present
	University of Michigan , Ann Arbor, MI <i>Graduate Student Research Assistant (GSRA)</i> <ul style="list-style-type: none">• 3D layout estimation of indoor scenes• Advisor: Prof. Silvio Savarese	May 2013 to present
	Academia Sinica , Taipei, Taiwan <i>Research Assistant</i> <ul style="list-style-type: none">• Image classification via sparse representation• Supervised dictionary learning for sparse representation• Mentor: Dr. Yu-Chiang Frank Wang	Aug 2010 to July 2011
PUBLICATIONS	<p>Y.-W. Chao, W. Choi, C. Pantofaru, and S. Savarese. Layout Estimation of Highly Cluttered Indoor Scenes using Geometric and Semantic Cues. In <i>Proceedings of the International Conference on Image Analysis and Processing (ICIAP)</i>, 2013. (oral presentation, 7.9% acceptance rate)</p> <p>W. Choi, Y.-W. Chao, C. Pantofaru, and S. Savarese. Understanding Indoor Scenes using 3D Geometric Phrases. In <i>Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i>, 2013. (oral presentation, 3.2% acceptance rate)</p> <p>C.-P. Wei, Y.-W. Chao, Y.-R. Yeh, and Y.-C. F. Wang. Locality-Sensitive Dictionary Learning for Sparse Representation Based Classification. <i>Pattern Recognition</i>, Vol. 46, No. 5, pp.1277–1287, May 2013.</p> <p>S. Y. Bao, M. Bagra, Y.-W. Chao, and S. Savarese. Semantic Structure From Motion with Points, Regions, and Objects. In <i>Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i>, 2012.</p> <p>Y.-W. Chao, Y.-R. Yeh, Y.-W. Chen, Y.-J. Lee, and Y.-C. F. Wang. Locality-constrained Group Sparse Representation for Robust Face Recognition. In <i>Proceedings of the IEEE International Conference on Image Processing (ICIP)</i>, 2011.</p>	

TEACHING EXPERIENCE	Computer Vision (EECS 442) , University of Michigan <i>Graduate Student Instructor (GSI)</i> <ul style="list-style-type: none"> • 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 	Fall 2012
AWARDS AND HONORS	Government Scholarships for Study Abroad (GSSA), Ministry of Education, Taiwan Study Abroad Scholarship for Outstanding College Students, Ministry of Education, Taiwan Academic Achievement Award, National Chiao Tung University	May 2011 Fall 2008 Spring 2008
PROFESSIONAL SERVICE	Reviewer <ul style="list-style-type: none"> • International IEEE Workshop on 3D Representation and Recognition (3dRR-13), 2013 • International Conference on Image Analysis and Processing (ICIAP), 2013 Student Volunteer <ul style="list-style-type: none"> • IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2013 • IEEE Statistical Signal Processing Workshop (SSP'12), 2012 	
OTHER ACHIEVEMENTS	Technology Transfer - Industrial Technology Research Institutes, Hsinchu, Taiwan, <ul style="list-style-type: none"> • Sparse Representation Based Face Recognition Technology 	Dec 2011
SKILLS AND LANGUAGES	Programming Languages: C/C++, MATLAB, UNIX shell scripting, and others Operating Systems: Linux, Windows and Mac OS X Languages: English, Chinese (Mandarin), and Taiwanese	