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RESEARCH INTERESTS	Computer vision, machine learning, object/activity 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 to present
	<b>University of Michigan</b> , Ann Arbor, MI M.S. in Electrical Engineering: Systems Advisor: Prof. Silvio Savarese	Sept 2011 to Apr 2013 GPA: 3.96/4.00
	<b>National Chiao Tung University</b> , Hsinchu, Taiwan B.S. in Electronics Engineering Minor in Applied Mathematics	Sept 2005 to June 2009 GPA: 85.45/100.00
	<b>Carnegie Mellon University</b> , Pittsburgh, PA International Exchange Program	Fall 2008 GPA: 3.80/4.00
WORK EXPERIENCE	<b>University of Michigan</b> , Ann Arbor, MI <i>Graduate Student Research Assistant (GSRA)</i> <ul style="list-style-type: none"><li>Human action understanding</li><li>Advisors: Prof. Jia Deng</li></ul>	May 2013 to present
	<b>DAQRI</b> , Mountain View, CA <i>Research Intern</i> <ul style="list-style-type: none"><li>Mentors: Chris Broaddus, Wenyi Zhao, Byungsoo Kim</li></ul>	May 2014 to Aug 2014
	<b>Stanford University</b> , Stanford, CA <i>Visiting Student Researcher</i> <ul style="list-style-type: none"><li>Human group activity recognition</li><li>3D layout estimation of indoor scenes</li><li>Advisor: Prof. Silvio Savarese</li></ul>	July 2013 to 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 to July 2011
PUBLICATIONS	W. Choi, <b>Y.-W. Chao</b> , C. Pantofaru, and S. Savarese. Discovering Groups of People in Images. In <i>Proceedings of the European Conference on Computer Vision (ECCV)</i> , 2014.	
	<b>Y.-W. Chao</b> , 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. ( <b>oral presentation</b> , 7.9% acceptance rate)	
	W. Choi, <b>Y.-W. Chao</b> , 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. ( <b>oral presentation</b> , 3.2% acceptance rate)	
	C.-P. Wei, <b>Y.-W. Chao</b> , 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.	

S. Y. Bao, M. Bagra, **Y.-W. Chao**, and S. Savarese. Semantic Structure From Motion with Points, Regions, and Objects. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2012.

**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 *Proceedings of the IEEE International Conference on Image Processing (ICIP)*, 2011.

TEACHING EXPERIENCE	<b>Computer Vision (EECS 542)</b> , University of Michigan <i>Graduate Student Instructor (GSI)</i>	Fall 2014
	<b>Computer Vision (EECS 442)</b> , University of Michigan <i>Graduate Student Instructor (GSI)</i> <ul style="list-style-type: none"> <li>• Served as the only GSI for a class with 80+ student</li> <li>• Taught weekly section on topics from class; demonstrated off-the-shelf softwares</li> <li>• Managed an online forum for discussions; held office hours to provide individualized help</li> </ul>	Fall 2012
AWARDS AND HONORS	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 <ul style="list-style-type: none"> <li>• International Conference on Pattern Recognition (ICPR), 2014</li> <li>• International IEEE Workshop on 3D Representation and Recognition (3dRR-13), 2013</li> <li>• International Conference on Image Analysis and Processing (ICIAP), 2013</li> </ul>	
	Student Volunteer <ul style="list-style-type: none"> <li>• IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2013</li> <li>• IEEE Statistical Signal Processing Workshop (SSP'12), 2012</li> </ul>	
OTHER ACHIEVEMENTS	Technology Transfer - Industrial Technology Research Institutes, Hsinchu, Taiwan <ul style="list-style-type: none"> <li>• Sparse Representation Based Face Recognition Technology</li> </ul>	Dec 2011
SKILLS AND LANGUAGES	Programming Languages: MATLAB, C/C++, OpenCV, Python, UNIX shell scripting, and others Operating Systems: Linux, Windows and Mac OS X Languages: English, Chinese (Mandarin), and Taiwanese	