

# YU-WEI CHAO

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## AREA OF INTERESTS

Computer Vision, Machine Learning, Signal Processing

## EDUCATION

**University of Michigan**, Ann Arbor, MI September 2011 - Present  
M.S. in Electrical Engineering: Systems GPA: 3.91/4.00  
Advisor: Prof. Silvio Savarese

**National Chiao Tung University**, Hsinchu, Taiwan September 2005 - June 2009  
B.S. in Electronics Engineering, Minor in Applied Mathematics GPA: 3.85/4.00

**Carnegie Mellon University**, Pittsburgh, PA Fall 2008  
International Exchange Program GPA: 3.80/4.00

## WORK EXPERIENCE

**Research Assistant**, Academia Sinica, Taipei, Taiwan August 2010 - July 2011  
Project: Image classification using sparse representation and supervised dictionary learning  
Mentor: Dr. Yu-Chiang Frank Wang

## PUBLICATIONS

W. Choi, **Y.-W. Chao**, C. Pantofaru and S. Savarese, "Understanding Indoor Scenes using 3D Geometric Phrases," *Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2013. (accepted as **oral** presentation)

C.-P. Wei, **Y.-W. Chao**, Y.-R. Yeh, and Y.-C. F. Wang, "Locality-Sensitive Dictionary Learning for Sparse Representation Based Classification," *Pattern Recognition*, Volume 46, Issue 5, May 2013, Pages 1277-1287.

S. Y. Bao, M. Bagra, **Y.-W. Chao**, and S. Savarese, "Semantic Structure From Motion with Points, Regions, and Objects," *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," *Proceedings of the IEEE International Conference on Image Processing (ICIP)*, 2011.

## TEACHING EXPERIENCE

**Teaching Assistant** of online courses at Coursera  
● Computer Vision: From 3D Reconstruction to Visual Recognition Spring 2013  
**Graduate Student Instructor (GSI)** at University of Michigan  
● EECS 442 Computer Vision Fall 2012

## HONORS & AWARDS

**Government Scholarships for Study Abroad (GSSA)**, Ministry of Education, Taiwan May 2011  
**Achievement Award for Mandatory Service Officers**, Ministry of National Defense, Taiwan June 2010  
**Study Abroad Scholarship for Outstanding College Students**, Ministry of Education, Taiwan Fall 2008  
**Academic Achievement Award (Class Rank: 2/51)**, National Chiao Tung University Spring 2008

## OTHER ACHIEVEMENTS

**Technology Transfer** - Industrial Technology Research Institutes, Hsinchu, Taiwan December 2011  
Sparse Representation Based Face Recognition Technology

## SKILLS & LANGUAGES

Programming Languages: C/C++, MATLAB, Java, Python  
Operating Systems: Windows, Linux  
Languages: English, Chinese (Mandarin), Taiwanese