

# Yu Xiang

PhD Candidate at University of Michigan  
Visiting Student at Stanford University

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## RESEARCH INTERESTS

Computer Vision	Object Recognition and Tracking, Scene Understanding, Image and Video Retrieval
Machine Learning	Graphical Model, Energy-based Learning, Deep Learning

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## EDUCATION

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| 2010.9-present | <b>Ph.D. Candidate</b> , University of Michigan, Ann Arbor, MI, USA.<br>- Dissertation: 3D Object Representations for Recognition<br>- Advisor: Prof. Silvio Savarese                                  |
| 2007.9-2010.7  | <b>M.Sc. in Computer Science</b> , Fudan University, Shanghai, China.<br>- Dissertation: Graphic Models for Semantic Context Modeling in Automatic Image Annotation<br>- Advisor: Prof. Xiangdong Zhou |
| 2003.9-2007.7  | <b>B.Sc. in Computer Science</b> , Fudan University, Shanghai, China.  |

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## EXPERIENCE

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| 2013.9 – present | <b>Visiting Student</b> , <i>Stanford University</i> , Palo Alto, CA, USA.<br>- Advisor: Prof. Silvio Savarese                           |
| 2014.5 – 2014.8  | <b>Summer Intern</b> , <i>NEC Labs America</i> , Cupertino, CA, USA.<br>- Department: Media Analytics                                    |
| 2009.9 – 2010.1  | <b>Teaching Assistant</b> , <i>The C Programming Language</i> , Fudan University, Shanghai, China.<br>- Instructor: Prof. Xiangdong Zhou |
| 2009.7 – 2009.9  | <b>Junior Research Assistant</b> , <i>National University of Singapore</i> , Singapore.<br>- Advisor: Prof. Tat-Seng Chua                |

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## AWARDS

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| 2012 | Outstanding Master's Thesis Award of Shanghai |
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## PUBLICATIONS

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| Conference | <b>Yu Xiang</b> , Wongun Choi, Yuanqing Lin and Silvio Savarese. Data-Driven 3D Voxel Patterns for Object Category Recognition. In <i>Proceedings of IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)</i> , 2015.    |
| Conference | Roozbeh Mottaghi, <b>Yu Xiang</b> and Silvio Savarese. A Coarse-to-Fine Model for 3D Pose Estimation and Sub-category Recognition. In <i>Proceedings of IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)</i> , 2015. |
| Conference | <b>Yu Xiang*</b> , Changkyu Song*, Roozbeh Mottaghi and Silvio Savarese (*equal contribution). Monocular Multiview Object Tracking with 3D Aspect Parts. In <i>European Conference on Computer Vision (ECCV)</i> , 2014.                            |
| Conference | <b>Yu Xiang</b> , Roozbeh Mottaghi and Silvio Savarese. Beyond PASCAL: A Benchmark for 3D Object Detection in the Wild. In <i>IEEE Winter Conference on Applications of Computer Vision (WACV)</i> , 2014.  |
| Conference | <b>Yu Xiang</b> and Silvio Savarese. Object Detection by 3D Aspectlets and Occlusion Reasoning. In <i>the 4th International IEEE Workshop on 3D Representation and Recognition (3dRR)</i> , 2013.   |
| Conference | Sid Yingze Bao, <b>Yu Xiang</b> and Silvio Savarese. Object co-detection. In <i>Proceedings of European Conference on Computer Vision (ECCV)</i> , vol. 7572, pp. 86-101, 2012.   |

- Conference **Yu Xiang** and Silvio Savarese. Estimating the aspect layout of object categories. In *Proceedings of IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 3410 - 3417, 2012.
- Conference **Yu Xiang**, Xiangdong Zhou, Zuotao Liu, Tat-Seng Chua and Chong-Wah Ngo. Semantic Context Modeling with Maximal Margin Conditional Random Fields for Automatic Image Annotation. In *Proceedings of IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 3368-3375, 2010.
- Conference Zuotao Liu, Xiangdong Zhou, **Yu Xiang** and Yan-Tao Zheng. Learning contextual metrics for automatic image annotation. In *Advances in Multimedia Information Processing - PCM*, vol. 6297, pp. 124-135, 2010.
- Journal Hongtao Xu, Xiangdong Zhou, **Yu Xiang** and Baile Shi. Adaptive model for web image semantic automatic annotation. In *Journal of Software* (in Chinese), vol. 21, no. 9, pp. 2183-2195, 2010.
- Conference **Yu Xiang**, Xiangdong Zhou, Tat-Seng Chua and Chong-Wah Ngo. A Revisit of Generative Model for Automatic Image Annotation using Markov Random Fields. In *Proceedings of IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 1153-1160, 2009.
- Conference Hongtao Xu, Xiangdong Zhou, Mei Wang, **Yu Xiang** and Baile Shi. Exploring Flickr's related tags for semantic annotation of web images. In *Proceedings of the ACM International Conference on Image and Video Retrieval (CIVR)*, no. 46, 2009.
- Conference Hongtao Xu, Xiangdong Zhou, Lan Lin, **Yu Xiang** and Baile Shi. Automatic web image annotation via web-scale image semantic space learning. In *Advances in Data and Web Management*, vol. 5446, pp. 211-222, 2009.

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## PERSONAL SKILLS

- Language Chinese, English
- Programming C/C++, MATLAB, Python, CUDA, JAVA

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## PROFESSIONAL ACTIVITIES

- Journal Reviewer IEEE Transactions on Pattern Analysis and Machine Intelligence
- Journal Reviewer International Journal of Computer Vision
- Journal Reviewer Computer Vision and Image Understanding
- Conf. Reviewer IEEE Conference on Computer Vision and Pattern Recognition
- Conf. Reviewer International Conference on Computer Vision
- Conf. Reviewer European Conference on Computer Vision
- Conf. Reviewer Asian Conference on Computer Vision
- Prog. Committee 4th Workshop on 3D Representation and Recognition, 2013