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

EDUCATION

2010.9-present   **Ph.D. Candidate**, University of Michigan, Ann Arbor, MI, USA.
- Dissertation: 3D Object Representations for Recognition
- Advisor: Prof. Silvio Savarese

2007.9-2010.7   **M.Sc. in Computer Science**, Fudan University, Shanghai, China.
- Dissertation: Graphic Models for Semantic Context Modeling in Automatic Image Annotation
- Advisor: Prof. Xiangdong Zhou

2003.9-2007.7   **B.Sc. in Computer Science**, Fudan University, Shanghai, China.

EXPERIENCE

2013.9 – present   **Visiting Student**, *Stanford University*, Palo Alto, CA, USA.
- Advisor: Prof. Silvio Savarese

2014.5 – 2014.8   **Summer Intern**, *NEC Labs America*, Cupertino, CA, USA.
- Department: Media Analytics

2009.9 – 2010.1   **Teaching Assistant**, *The C Programming Language*, Fudan University, Shanghai, China.
- Instructor: Prof. Xiangdong Zhou

2009.7 – 2009.9   **Junior Research Assistant**, *National University of Singapore*, Singapore.
- Advisor: Prof. Tat-Seng Chua

AWARDS

2012   Outstanding Master's Thesis Award of Shanghai

PUBLICATIONS

Conference   **Yu Xiang**, Wongun Choi, Yuanqing Lin and Silvio Savarese. Data-Driven 3D Voxel Patterns for Object Category Recognition. In *Proceedings of IEEE International Conference on Computer Vision and Pattern Recognition (**CVPR**)*, 2015 (**Oral Presentation**).

Conference   Roozbeh Mottaghi, **Yu Xiang** and Silvio Savarese. A Coarse-to-Fine Model for 3D Pose Estimation and Sub-category Recognition. In *Proceedings of IEEE International Conference on Computer Vision and Pattern Recognition (**CVPR**)*, 2015.

Conference   **Yu Xiang***, Changkyu Song*, Roozbeh Mottaghi and Silvio Savarese (*equal contribution). Monocular Multiview Object Tracking with 3D Aspect Parts. In *European Conference on Computer Vision (**ECCV**)*, 2014.

Conference   **Yu Xiang**, Roozbeh Mottaghi and Silvio Savarese. Beyond PASCAL: A Benchmark for 3D Object Detection in the Wild. In *IEEE Winter Conference on Applications of Computer Vision (**WACV**)*, 2014.

Conference   **Yu Xiang** and Silvio Savarese. Object Detection by 3D Aspectlets and Occlusion Reasoning. In *the 4th International IEEE Workshop on 3D Representation and Recognition (**3dRR**)*, 2013.

Conference   Sid Yingze Bao, **Yu Xiang** and Silvio Savarese. Object co-detection. In *Proceedings of European Conference on Computer Vision (**ECCV**)*, 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.

PERSONAL SKILLS

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

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