

CONTACT INFORMATION	University of Washington Computer Science & Engineering 185 Stevens Way, Paul G. Allen Center Seattle, WA 98195-2350	734-277-4576 yuxiang@cs.washington.edu http://yuxng.github.io/
RESEARCH INTERESTS	Robotics, Computer Vision, Machine Learning, Deep Learning	
EDUCATION	University of Michigan , Ann Arbor, Michigan, USA	Sep 2010 – Dec 2015
	Ph.D. in Electrical Engineering: Systems Dissertation: 3D Object Representations for Recognition Advisor: Prof. Silvio Savarese	
	Fudan University , Shanghai, China	Sep 2007 – Jul 2010
	M.S. in Computer Science Dissertation: Graphic Models for Semantic Context Modeling in Automatic Image Annotation Advisor: Prof. Xiangdong Zhou	
	Fudan University , Shanghai, China	Sep 2003 – Jul 2007
	B.S. in Computer Science	
EXPERIENCE	University of Washington , Seattle, Washington, USA	Aug 2016 – present
	<i>Postdoctoral Researcher</i> • Advisor: Prof. Dieter Fox	
	Stanford University , Stanford, California, USA	Jan 2016 – Jul 2016
	<i>Postdoctoral Researcher</i> • Advisors: Prof. Silvio Savarese	
	Stanford University , Stanford, California, USA	Sep 2013 – Dec 2015
	<i>Visiting Student Researcher</i> • Advisors: Prof. Silvio Savarese	
	NEC Laboratories America, Inc. , Cupertino, California, USA	Jun 2015 – Sep 2015
	<i>Summer Research Intern</i> • Department: Media Analytics	May 2014 – Aug 2014
PUBLICATIONS	Subcategory-aware Convolutional Neural Networks for Object Proposals and Detection <i>Yu Xiang</i> , Wongun Choi, Yuanqing Lin and Silvio Savarese In <i>IEEE Winter Conference on Applications of Computer Vision (WACV)</i> , 2017. Anticipating Accidents in Dashcam Videos Fu-Hsiang Chan, Yu-Ting Chen, <i>Yu Xiang</i> and Min Sun In <i>Asian Conference on Computer Vision (ACCV)</i> , 2016 (Oral). ObjectNet3D: A Large Scale Database for 3D Object Recognition <i>Yu Xiang</i> , Wonhui Kim, Wei Chen, Jingwei Ji, Christopher Choy, Hao Su, Roozbeh Mottaghi, Leonidas Guibas and Silvio Savarese In <i>European Conference on Computer Vision (ECCV)</i> , pp. 160-176, 2016 (Spotlight Oral). Pose Estimation Errors, the Ultimate Diagnosis Carolina Redondo-Cabrera, Roberto López-Sastre, <i>Yu Xiang</i> , Tinne Tuytelaars and Silvio Savarese In <i>European Conference on Computer Vision (ECCV)</i> , pp. 118-134, 2016. Deep Metric Learning via Lifted Structured Feature Embedding Hyun Oh Song, <i>Yu Xiang</i> , Stefanie Jegelka and Silvio Savarese In <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i> , pp. 4004-4012, 2016 (Spotlight Oral).	

Learning to Track: Online Multi-Object Tracking by Decision Making

Yu Xiang, Alexandre Alahi and Silvio Savarese

In *International Conference on Computer Vision (ICCV)*, pp. 4705-4713, 2015 (Oral).

Data-Driven 3D Voxel Patterns for Object Category Recognition

Yu Xiang, Wongun Choi, Yuanqing Lin and Silvio Savarese

In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 1903-1911, 2015 (Oral).

A Coarse-to-Fine Model for 3D Pose Estimation and Sub-category Recognition

Roozbeh Mottaghi, Yu Xiang and Silvio Savarese

In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 418-426, 2015.

Monocular Multiview Object Tracking with 3D Aspect Parts

Yu Xiang*, Changkyu Song*, Roozbeh Mottaghi and Silvio Savarese (*equal contribution)

In *European Conference on Computer Vision (ECCV)*, pp. 220-235, 2014.

Beyond PASCAL: A Benchmark for 3D Object Detection in the Wild

Yu Xiang, Roozbeh Mottaghi and Silvio Savarese

In *IEEE Winter Conference on Applications of Computer Vision (WACV)*, pp. 75-82, 2014.

Object Detection by 3D Aspectlets and Occlusion Reasoning

Yu Xiang and Silvio Savarese

In *IEEE Workshop on 3D Representation and Recognition (3dRR)*, pp. 530-537, 2013.

Object Co-detection

Sid Yingze Bao, Yu Xiang and Silvio Savarese

In *European Conference on Computer Vision (ECCV)*, vol. 7572, pp. 86-101, 2014.

Estimating the Aspect Layout of Object Categories

Yu Xiang and Silvio Savarese

In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 3410-3417, 2012.

Semantic Context Modeling with Maximal Margin Conditional Random Fields for Automatic Image Annotation

Yu Xiang, Xiangdong Zhou, Zuotao Liu, Tat-Seng Chua and Chong-Wah Ngo

In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 3368-3375, 2010.

Learning Contextual Metrics for Automatic Image Annotation

Zuotao Liu, Xiangdong Zhou, Yu Xiang and Yan-Tao Zheng

In *Advances in Multimedia Information Processing - PCM*, vol. 6297, pp. 124-135, 2010.

A Revisit of Generative Model for Automatic Image Annotation using Markov Random Fields

Yu Xiang, Xiangdong Zhou, Zuotao Liu, Tat-Seng Chua and Chong-Wah Ngo

In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 1153-1160, 2009.

Adaptive Model for Web Image Semantic Automatic Image Annotation

Hongtao Xu, Xiangdong Zhou, Yu Xiang and Baile Shi

In *Journal of Software (in Chinese)*, vol. 21, no. 9, pp. 2183-2195, 2009.

Exploiting Flickr's Related Tags for Semantic Annotation of Web Images

Hongtao Xu, Xiangdong Zhou, Yu Xiang and Baile Shi

In *ACM International Conference on Image and Video Retrieval (CIVR)*, no. 46, 2009.

Automatic Web Image Annotation via Web-Scale Image Semantic Space Learning

Hongtao Xu, Xiangdong Zhou, Lan Lin, Yu Xiang and Baile Shi

In *Advances in Data and Web Management*, vol. 5446, pp. 211-222, 2009.

TEACHING
EXPERIENCE

The C Programming Language, Fudan University, Shanghai, China
Teaching Assistant

Sep 2009 – Jan 2010

AWARDS AND
HONORS

Outstanding Master's Thesis Award of Shanghai

2012

PROFESSIONAL
SERVICE

Journal Reviewer

- IEEE Robotics and Automation Letters
- IEEE Transactions on Pattern Analysis and Machine Intelligence
- International Journal of Computer Vision
- Computer Vision and Image Understanding
- IEEE Transactions on Circuits and Systems for Video Technology
- IEEE Transactions on Multimedia

Conference Reviewer

- IEEE International Conference on Robotics and Automation
- IEEE Conference on Computer Vision and Pattern Recognition
- International Conference on Computer Vision
- European Conference on Computer Vision
- Asian Conference on Computer Vision
- British Machine Vision Conference

Program Chair

- 5th International IEEE Workshop on 3D Representation and Recognition, 2015

Program Committee

- 4th International IEEE Workshop on 3D Representation and Recognition, 2013

Tutorial Organizer

- 3D Object Geometry from Single Image Tutorial at International Conference on 3D Vision, 2016

SKILLS AND
LANGUAGES

Programming Languages: C/C++, MATLAB, Python, CUDA, JAVA

Libraries: Tensorflow, Caffe, OpenCV, OpenGL

Operating Systems: Linux, Windows and Mac OS X

Languages: English, Chinese