

Yi Yang

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INTERESTS	Deep Learning, Computer Vision, Machine Learning, Reinforcement Learning	
EDUCATION	University of California Irvine <ul style="list-style-type: none">• Ph.D. in Computer Science• Advisor: Prof. Deva Ramanan, co-advisor: Prof. Charless Fowlkes Hong Kong University of Science & Technology <ul style="list-style-type: none">• M.Phil. in Industrial Engineering and Logistic Management• Advisor: Prof. Jeff Hong Tsinghua University <ul style="list-style-type: none">• B.S. in Automation• Top 10% with Excellent Graduation Award	2008 - 2013 GPA: 3.95/4.0 2006 - 2008 GPA: 3.5/4.0 2002 - 2006 GPA: 3.8/4.0
EXPERIENCE	Baidu Research, Silicon Valley Research Scientist, Institute of Deep Learning <ul style="list-style-type: none">• Occlusion aware unsupervised learning of optical flow.• Dynamic computational time for visual attention.• Semantic image segmentation with deep convolutional neural networks.• Object detection with deep convolutional neural networks.• Image captioning and question answering with multimodal recurrent neural networks.• Learning from massive noisy labeled data for visual classification.• Feedback neural networks for object detection and fine-grained recognition. Google, Mountain View Software Engineer Intern, Google Shopping Team Mentor: Emilio Antunez, co-mentor: Tianli Yu <ul style="list-style-type: none">• Large scale human pose estimation for visual fashion clothing retrieval. Microsoft Research, Silicon Valley Research Intern, Interactive Visual Media Lab Mentor: Simon Baker, co-mentor: Anitha Kannan <ul style="list-style-type: none">• Proxemics recognition for multiple people interactions in personal photo albums. University of California Irvine Research Assistant, Computer Vision Lab Advisor: Prof. Deva Ramanan, co-advisor: Prof. Charless Fowlkes <ul style="list-style-type: none">• Human detection and parsing under occlusion and truncation.• Articulated pose estimation with flexible mixtures-of-parts.• Layered object detection for multi-class image segmentation.	10/2013 - Present Sunnyvale, CA 06/2012 - 09/2012 Mountain View, CA 06/2011 - 09/2011 Mountain View, CA 09/2008 - 08/2013 Irvine, CA
PUBLICATIONS	24. Yang Wang, Yi Yang , Zhenheng Yang, Liang Zhao, Peng Wang, Wei Xu, “Occlusion Aware Unsupervised Learning of Optical Flow”, in <i>CVPR 2018</i> . 23. Chunshui Cao, Xianming Liu, Yi Yang , et al., “Feedback Convolutional Neural Network for Visual Localization and Segmentation”, in <i>PAMI 2018</i> . 22. James Supancic, Gregory Rogez, Yi Yang , Jamie Shotton, Deva Ramanan, “Depth-based Hand Pose Estimation: Data, Methods, and Challenges”, in <i>IJCV 2018</i> . 21. Liang Zhao, Yang Wang, Yi Yang , Wei Xu, “Unsupervised Learning Layers for Video Analysis”, in <i>Arxiv 2017</i> .	

20. Zhichao Li, **Yi Yang**, Xiao Liu, Shilei Wen, Wei Xu, “Dynamic Computational Time for Visual Attention”, in *ICCV 2017 Workshop*.
19. Xiao Liu, Tian Xia, Jiang Wang, **Yi Yang**, Feng Zhou, Yuanqing Lin, “Fully Convolutional Attention Networks for Fine-Grained Recognition”, in *Arxiv 2016*.
18. Liang-Chieh Chen, **Yi Yang**, Jiang Wang, Wei Xu, and Alan L. Yuille, “Attention to Scale: Scale-aware Semantic Image Segmentation”, in *CVPR 2016*.
17. Jiang Wang, **Yi Yang**, Junhua Mao, Zhiheng Huang, Chang Huang, Wei Xu, “CNN-RNN: A Unified Framework for Multi-label Image Classification”, in *CVPR 2016*. (Oral; Acceptance Rate: 3.9%)
16. Haonan Yu, Jiang Wang, Zhiheng Huang, **Yi Yang**, Wei Xu, “Video Paragraph Captioning Using Hierarchical Recurrent Neural Networks”, in *CVPR 2016*. (Oral; Acceptance Rate: 3.9%)
15. Lichao Huang, **Yi Yang**, Yafeng Deng, Yinan Yu, “DenseBox: Unifying Landmark Localization with End to End Object Detection”, in *Arxiv 2015*.
14. Junhua Mao, Wei Xu, **Yi Yang**, Jiang Wang, Zhiheng Huang, Alan Yuille, “Learning like a Child: Fast Novel Visual Concept Learning from Sentence Descriptions of Images”, in *ICCV 2015*.
13. James Supančič, Gregory Rogez, **Yi Yang**, Jamie Shotton, Deva Ramanan, “Depth-based hand pose estimation: data, methods, and challenges”, in *ICCV 2015*.
12. Chunshui Cao, Xianming Liu, **Yi Yang**, et al., “Look and Think Twice: Capturing Top-Down Visual Attention with Feedback Convolutional Neural Networks”, in *ICCV 2015*.
11. Tong Xiao, Tian Xia, **Yi Yang**, Chang Huang, Xiaogang Wang, “Learning from Massive Noisy Labeled Data for Image Classification”, in *CVPR 2015*.
10. Junhua Mao, Wei Xu, **Yi Yang**, Jiang Wang, Zhiheng Huang and Alan Yuille, “Deep Captioning with Multimodal Recurrent Neural Networks”, in *ICLR 2015*.
9. Junhua Mao, Wei Xu, **Yi Yang**, Jiang Wang and Alan Yuille, “Explain Images with Multimodal Recurrent Neural Networks”, in *NIPS 2014 Workshop*.
8. Golnaz Ghiasi, **Yi Yang**, Charless Fowlkes and Deva Ramanan, “Parsing Occluded People”, in *CVPR 2014*.
7. Krishnan Ramnath, Simon Baker, Lucy Vanderwende, Motaz El-Saban, Sudipta Sinha, Anitha Kannan, Noran Hassan, Michel Galley, **Yi Yang**, Deva Ramanan, Alessandro Bergamo, and Lorenzo Torresani, “AutoCaption: Automatic Caption Generation for Personal Photos”, in *WACV 2014*.
6. **Yi Yang** and Deva Ramanan, “Articulated Human Detection with Flexible Mixtures-of-Parts”, in *PAMI 2013*.
5. **Yi Yang**, Simon Baker, Anitha Kannan and Deva Ramanan, “Recognizing Proxemics in Personal Photos”, in *CVPR 2012*.
4. **Yi Yang**, Sam Hallman, Deva Ramanan and Charless Fowlkes, “Layered Object Models for Image Segmentation”, in *PAMI 2012*.
3. **Yi Yang** and Deva Ramanan, “Articulated Pose Estimation with Flexible Mixtures-of-Parts”, in *CVPR 2011*. (Oral; Acceptance Rate: 3.5%)
2. Jeff Hong, **Yi Yang**, and Liwei Zhang, “Sequential Convex Approximations to Joint Chance Constrained Programs: a Monte Carlo Approach,” in *OR 2011*.
1. **Yi Yang**, Sam Hallman, Deva Ramanan and Charless Fowlkes, “Layered Object Detection for Multi-Class Segmentation”, in *CVPR 2010*. (Oral; Acceptance Rate: 4.5%)

ACTIVITIES AND AWARDS	Baidu Top Performer Awards ($\ll 1\%$)	2016
	Conference Review: NIPS, CVPR, ICCV, ECCV, etc.	2012 - 2015
	Journal Review: PAMI, IJCV, etc.	2012 - 2015
	Research Fellowship, UC Irvine	2011 - 2013
	ICS Fellowship Award, UC Irvine	2008 - 2011

Research Fellowship, HKUST	2006 - 2008
Excellent Graduation Award, Tsinghua University	2006
Undergraduate Student Fellowship, Tsinghua University	2003 - 2005
3rd Prize of Chinese National Chemistry Olympiad	2001
1st Prize of Chinese National Mathematics Olympiad	2001

COMPUTER
SKILLS

Languages: Python, C, C++, Matlab, HTML, Java, Javascript.
Tools: Linux Shell, Vim, PyTorch, Caffe, Tensorflow, Torch, OpenCV, Latex, GNU Make.