Yi Yang

CONTACT

Mobile: (+1) 949-272-6066, (+44) 7384-871096
Email: yiya@google.com, yangyi02@gmail.com
Webpage: http://yangyi02.github.io

Google DeepMind
6 Pancras Square
Kings Cross, London, N1C 4AG

INTERESTS   Deep Learning, Computer Vision, Machine Learning, Reinforcement Learning

EDUCATION

University of California Irvine   2008 - 2013
- Ph.D. in Computer Science   GPA: 3.95/4.0
- Advisor: Prof. Deva Ramanan, co-advisor: Prof. Charless Fowlkes

Hong Kong University of Science & Technology   2006 - 2008
- M.Phil. in Industrial Engineering and Logistic Management   GPA: 3.5/4.0
- Advisor: Prof. Jeff Hong

Tsinghua University   2002 - 2006
- B.S. in Automation   GPA: 3.8/4.0
- Top 10% with Excellent Graduation Award

EXPERIENCE

Google DeepMind, London   11/2018 - Present
Research Scientist   London, UK
- Multilingual lip sync from audio.
- Self-supervised 3D optical flow.

Baidu Research, Silicon Valley   10/2013 - 10/2018
Research Scientist, Institute of Deep Learning   Sunnyvale, CA
- 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   06/2012 - 09/2012
Software Engineer Intern, Google Shopping Team   Mountain View, CA
Mentor: Emilio Antunez, co-mentor: Tianli Yu
- Large scale human pose estimation for visual fashion clothing retrieval.

Microsoft Research, Silicon Valley   06/2011 - 09/2011
Research Intern, Interactive Visual Media Lab   Mountain View, CA
Mentor: Simon Baker, co-mentor: Anitha Kannan
- Proxemics recognition for multiple people interactions in personal photo albums.

University of California Irvine   09/2008 - 08/2013
Research Assistant, Computer Vision Lab   Irvine, CA
Advisor: Prof. Deva Ramanan, co-advisor: Prof. Charless Fowlkes
- Human detection and parsing under occlusion and truncation.
- Articulated pose estimation with flexible mixtures-of-parts.
- Layered object detection for multi-class image segmentation.

SELECTED
PUBLICATIONS

20. Xiangyun Zhao, Yi Yang, Feng Zhou, Xiao Tan, Yuchen Yuan, Yingze Bao, Ying Wu, "Recognizing Part Attributes with Insufficient Data", in *ICCV 2019*

19. Yang Wang, Peng Wang, Zhenheng Yang, Chenxu Luo, Yi Yang, Wei Xu, "UnOS: Unified Unsupervised Optical-flow and Stereo-depth Estimation by Watching Videos", in *CVPR 2019*.

18. Yang Wang, Yi Yang, Zhenheng Yang, Liang Zhao, Peng Wang, Wei Xu, "Occlusion Aware Unsupervised Learning of Optical Flow", in *CVPR 2018*.

17. Chunshui Cao, Xianming Liu, Yi Yang, et al., "Feedback Convolutional Neural Network for Visual Localization and Segmentation", in *PAMI 2018*.

16. James Supancic, Gregory Rogez, Yi Yang, Jamie Shotton, Deva Ramanan, "Depth-based Hand Pose Estimation: Data, Methods, and Challenges", in *IJCV 2018*.

15. Liang-Chieh Chen, Yi Yang, Jiang Wang, Wei Xu, and Alan L. Yuille, "Attention to Scale: Scale-aware Semantic Image Segmentation", in *CVPR 2016*.

14. 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%)

13. 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%)

12. 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*.

11. James Supančič, Gregory Rogez, Yi Yang, Jamie Shotton, Deva Ramanan, "Depth-based hand pose estimation: data, methods, and challenges", in *ICCV 2015*.

10. 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*.

9. Tong Xiao, Tian Xia, Yi Yang, Chang Huang, Xiaogang Wang, "Learning from Massive Noisy Labeled Data for Image Classification", in *CVPR 2015*.

8. Junhua Mao, Wei Xu, Yi Yang, Jiang Wang, Zhiheng Huang and Alan Yuille, "Deep Captioning with Multimodal Recurrent Neural Networks", in *ICLR 2015*.

7. Golnaz Ghiasi, Yi Yang, Charless Fowlkes and Deva Ramanan, "Parsing Occluded People", in *CVPR 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 - Present
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.