

Fei-Fei Li

(Publish under the name L. Fei-Fei)

updated on 2014.08.25

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URL: <http://vision.stanford.edu>
- EMPLOYMENT** Associate Professor (tenured)
2012.08 – present
Computer Science Department, Stanford University, CA, USA
- Director, Stanford Artificial Intelligence Lab (SAIL)
2014 – present
Computer Science Department, Stanford University, CA, USA
Full list of employments begins on page 18
- EDUCATION** California Institute of Technology, Ph.D. in Electrical Engineering
2001 – 2005
Advisors: Dr. Pietro Perona (primary), Dr. Christof Koch (secondary)
Dissertation Title: *“Visual Recognition: Computational Models and Human Psychophysics”*
- California Institute of Technology, M.S. in Electrical Engineering
2000 – 2001
Advisors: Dr. Pietro Perona (primary), Dr. Christof Koch (secondary)
- Princeton University, B.A. in Physics
1995 - 1999
- DISTINCTIONS** Yahoo! Labs Faculty Research Engagement Program (FREP) Award, Yahoo!, 2012
- W.M. Keck Foundation Faculty Scholar, Stanford University, 2012 – 2016
- 1st Place in the PASCAL VOC Action Classification Challenge. An internationally recognized premier computer vision competition. 2011, 2012.
- Alfred P. Sloan Fellowship. A highly prestigious fellowship awarded to the “best scholars in [the current] generation.” 2011
- Best Paper Honorable Mention. IEEE Conference on Computer Vision and Pattern Recognition (CVPR). 2010
- Stanford Terman Fellowship. 2009.09
- NSF CAREER Award. 2009.07

Google Research Award. 2010.03, 2008.06

1st Place in the Semantic Robot Vision Challenge Software League. An NSF and AAAI sponsored visual recognition competition. 2007

Microsoft Research New Faculty Fellowship. A highly selective fellowship awarded to “the best new professors in computing disciplines today.” 2006

IEEE ICCV Best Short Course Prize (with R. Fergus and A. Torralba). 2005

National Science Foundation Postgraduate Fellowship. 1999 – 2002

Paul and Daisy Soros Fellowship for New Americans. 1999 – 2002

Princeton University Martin Dale '53 Fellowship. 1999 – 2000

Princeton University Kusaka Memorial Prize in Physics. 1999

PUBLICATIONS

BOOK CHAPTERS, REFEREED JOURNALS AND CONFERENCE PAPERS

- 1) Vignesh Ramanathan, Armand Joulin, Percy Liang and **Li Fei-Fei**. Joint Person Naming in Videos and Coreference Resolution in Text. *IEEE European Conference on Computer Vision (ECCV)*. 2014.
- 2) Yuke Zhu, Alireza Fathi, and **Li Fei-Fei**. Reasoning About Object Affordance in a Knowledge Base Representation. *IEEE European Conference on Computer Vision (ECCV)*. 2014.
- 3) A. Joulin, K. Tang, and **L. Fei-Fei**. Efficient Image and Video Co-localization with Frank-Wolfe Algorithm. *IEEE European Conference on Computer Vision (ECCV)*. 2014.
- 4) G. Pusiol, L. Soriano, **L. Fei-Fei**, M.C. Frank. Discovering the Signatures of Joint Attention in Child-Caregiver Interaction. *CogSci*. 2014.
- 5) Andrej Karpathy, George Toderici, Sanketh Shetty, Thomas Leung, Rahul Sukthankar, **Li Fei-Fei**. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. 2014.
- 6) Alexandre Alahi, Vignesh Ramanathan, and **Li Fei-Fei**. Socially-aware Large-scale Crowd Forecasting. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. 2014.
- 7) Kevin Tang, Armand Joulin, Li-Jia Li, **Li Fei-Fei**. Co-localization in Real-World Images. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. 2014.
- 8) Jia Deng, Olga Russakovsky, Jonathan Krause, Michael Bernstein, Alexander C. Berg and **Li Fei-Fei**. Scalable Multi-Label Annotation. *ACM CHI Conference on Human Factors in Computing Systems (CHI)*. 2014.
- 9) M. Greene, and **L. Fei-Fei**. Visual Categorization is Automatic and Obligatory: Evidence from a Stroop-like Paradigm. *Journal of Vision*. 2014.
- 10) B. Yao, J. Ma, and **L. Fei-Fei**. Discovering Object Functionality. *International Conference on Computer Vision (ICCV)*. 2013.
- 11) O. Russakovsky, J. Deng, Z. Huang, A. Berg, and **L. Fei-Fei**. Detecting avocados to zucchinis: what have we done, and where are we going? *International Conference on Computer Vision (ICCV)*. 2013.

- 12) V. Ramanathan, P. Liang, and **L. Fei-Fei**. Video Event Understanding using Natural Language Descriptions. *International Conference on Computer Vision (ICCV)*. 2013.
- 13) K. Tang, B. Yao, **L. Fei-Fei**, and D. Koller. Combining the Right Features for Complex Event Recognition. *International Conference on Computer Vision (ICCV)*. 2013.
- 14) C. Baldassano, D.M. Beck, and **L. Fei-Fei**. Differential Connectivity Within the Parahippocampal Place Area. *NeuroImage*. 2013.
- 15) V. Ramanathan, B. Yao and **L. Fei-Fei**. Social Role Discovery in Human Events. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. 2013
- 16) K. Tang, R. Skthankar, J. Yagnik and **L. Fei-Fei**. Discriminative Segment Annotation in Weakly Labeled Video. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. 2013.
- 17) A. Karpathy, S. Miller, and **L. Fei-Fei**. Object Discovery in 3D Scenes via Shape Analysis. *International Conference on Robotics and Automation (ICRA)*. 2013.
- 18) K. Tang, V. Ramanathan, **L. Fei-Fei** and D. Koller. Shifting Weights: Adapting Object Detectors from Image to Video. *Neural Information Processing Systems (NIPS)*. 2012.
- 19) B. Yao and **L. Fei-Fei**. Action Recognition with Exemplar Based 2.5D Graph Matching. *ECCV* 2012.
- 20) C. Baldassano, M.C. Iordan, D.M. Beck, and **L. Fei-Fei**. Voxel-Level Functional Connectivity using Spatial Regularization. *NeuroImage*. 2012.
- 21) H. Su, J. Deng, and **L. Fei-Fei**. Crowdsourcing Annotations for Visual Object Detection. *AAAI Human Computation Workshop*. 2012.
- 22) G. Kim, **L. Fei-Fei**, and E. Xing. Web Image Prediction Using Multivariate Point Processes. *The 18th ACM Conference on Knowledge Discovery and Data Mining (KDD)*. 2012.
- 23) H. Su, A. Yu, and **L. Fei-Fei**. Efficient Euclidean Projections onto the Intersection of Norm Balls. *International Conference on Machine Learning (ICML)*. 2012.
- 24) B. Yao, G. Bradski, and **L. Fei-Fei**. A Codebook-Free and Annotation-Free Approach for Fine-Grained Image Categorization. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. 2012.
- 25) G. Kim, **L. Fei-Fei**, and E. Xing. Web Image Prediction Using Multivariate Point Processes. *The 18th ACM Conference on Knowledge Discovery and Data Mining (KDD)*. 2012.
- 26) H. Su, A. Yu, and **L. Fei-Fei**. Efficient Euclidean Projections onto the Intersection of Norm Balls. *International Conference on Machine Learning (ICML)*. 2012.
- 27) B. Yao, G. Bradski, and **L. Fei-Fei**. A Codebook-Free and Annotation-Free Approach for Fine-Grained Image Classification. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. 2012.
- 28) K. Tang, **L. Fei-Fei**, and D. Koller. Learning Latent Temporal Structure for Complex Event Detection. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. 2012.
- 29) J. Deng, J. Krause, A. Berg, and **L. Fei-Fei**. Hedging Your Bets: Optimizing Accuracy-Specificity Trade-offs in Large Scale Visual Recognition. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. 2012.
- 30) B. Yao and **L. Fei-Fei**. Recognizing Human Actions in Still Images by Modeling the Mutual Context of Objects and Human Poses. *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)*. 34(9):1691-1703, September 2012.
- 31) J. Deng, A. Berg, S. Santheesh, and **L. Fei-Fei**. Fast and Balanced: Efficient Label Tree Learning for Large Scale Object Recognition. *Proceedings of the Neural Information Processing Systems (NIPS)*. 2011

- 32) B. Zhao, **L. Fei-Fei** and E.P. Xing. Large-Scale Category Structure Aware Image Categorization. *Proceedings of the Neural Information Processing Systems (NIPS)*. 2011
- 33) B. Yao, X. Jiang, A. Khosla, A.L. Lin, L.J. Guibas, and **L. Fei-Fei**. Human Action Recognition by Learning Bases of Action Attributes and Parts. *International Conference on Computer Vision (ICCV)*. 2011.
- 34) G. Kim, E.P. Xing, **L. Fei-Fei**, and T. Kanade. Distributed cosegmentation via submodular optimization on anisotropic diffusion. *IEEE International Conference on Computer Vision (ICCV)*. 2011.
- 35) M. Savva, N. Kong, A. Chhajta, **L. Fei-Fei**, M. Agrawala, and J. Heer. ReV ReVision: Automated Classification, Analysis and Redesign of Chart Images. *ACM Symposium on User Interface Software and Technology (UIST)*. 2011
- 36) B. Yao, A. Khosla, and **L. Fei-Fei**. Classifying Actions and Measuring Action Similarity by Modeling the Mutual Context of Objects and Human Poses. *International Conference on Machine Learning (ICML)*. 2011.
- 37) D. B. Walther, B. Chai, E. Caddigan, D. M. Beck and **L. Fei-Fei**. Simple line drawings suffice for functional MRI decoding of natural scene categories. *Proc. Nat. Acad. of Sci (PNAS)*. doi: 10.1073/pnas.1015666108, vol. 108 (no. 23): pp9661-9666. 2011.
- 38) J. Deng, A. Berg, and **L. Fei-Fei**. Hierarchical Semantic Indexing for Large Scale Image Retrieval. *IEEE Computer Vision and Pattern Recognition (CVPR)*. 2011.
- 39) B. Yao, A. Khosla, and **L. Fei-Fei**. Combining Randomization and Discrimination for Fine-Grained Image Categorization. *IEEE Computer Vision and Pattern Recognition (CVPR)*. 2011.
- 40) B. Zhao, **L. Fei-Fei**, and E.P. Xing, Online Detection of Unusual Events in Videos via Dynamic Sparse Coding. *IEEE Computer Vision and Pattern Recognition (CVPR)*. 2011.
- 41) L.-J. Li, H. Su, E.P. Xing and **L. Fei-Fei**, Object Bank: A High-Level Image Representation for Scene Classification & Semantic Feature Sparsification. *Proceedings of the Neural Information Processing Systems (NIPS)*. 2010.
- 42) J. Zhu, L.-J. Li, **L. Fei-Fei** and E.P. Xing, Large Margin Learning of Upstream Scene Understanding Models. *Proceedings of the Neural Information Processing Systems (NIPS)*. 2010.
- 43) J. C. Niebles, C.-W. Chen and **L. Fei-Fei**. Modeling Temporal Structure of Decomposable Motion Segments for Activity Classification. *Proceedings of the 12th European Conference of Computer Vision (ECCV)*. 2010.
- 44) B. Zhao, **L. Fei-Fei** and E. P. Xing. Image Segmentation with Topic Random Fields. *Proceedings of the 12th European Conference of Computer Vision (ECCV)*. 2010.
- 45) J. Deng, A. Berg, K. Li and **L. Fei-Fei**. What does classifying more than 10,000 image categories tell us? *Proceedings of the 12th European Conference of Computer Vision (ECCV)*. 2010.
- 46) **L. Fei-Fei** and L.-J. Li. What, Where and Who? Telling the Story of an Image by Activity Classification, Scene Recognition and Object Categorization. *Book chapter in "Studies in Computational Intelligence- Computer Vision"*. Volume 285/2010, Springer, 2010.
- 47) S. Savarese, and **L. Fei-Fei**. Multi-view Object Categorization and Pose Estimation. *Book chapter in "Studies in Computational Intelligence- Computer Vision"*. Volume 285/2010, Springer, 2010.
- 48) R. Fergus, **L. Fei-Fei**, P. Perona and A. Zisserman. Learning object categories from Internet image searches. *Proc. Of IEEE, Special Issue on Internet Vision. Vol 98/8*. 2010.
- 49) B. Yao and **L. Fei-Fei**. Modeling mutual context of object and human pose in human-object interaction activities. *IEEE Computer Vision and Pattern Recognition (CVPR)*. 2010.

- 50) B. Yao and **L. Fei-Fei**. Grouplet: a structured image representation for recognizing human and object interactions. *IEEE Computer Vision and Pattern Recognition (CVPR)*. 2010.
- 51) L.J. Li, C. Wang, Y. Lim, D. Blei and **L. Fei-Fei**. Building and Using a Semantivisual image hierarchy. *IEEE Computer Vision and Pattern Recognition (CVPR)*. 2010.
- 52) J.C. Niebles, L. Chen and **L. Fei-Fei**. Modeling temporal structure of decomposable motion segments for activity classification. *IEEE Computer Vision and Pattern Recognition (CVPR)*. 2010.
- 53) R. Socher and **L. Fei-Fei**. Connecting Modalities: Semi-supervised Segmentation and Annotation of Images Using Unaligned Text Corpora. *IEEE Computer Vision and Pattern Recognition (CVPR)*. 2010.
- 54) D. B. Walther, D. M. Beck, and **L. Fei-Fei**. To err is human: investigating neural function by correlating error patterns with human behavior. in: Nikolaus Kriegeskorte and Gabriel Kreiman (eds.), *Understanding visual population codes – Toward a common multivariate framework for cell recording and functional imaging*, MIT Press, Cambridge, Massachusetts. 2010.
- 55) B. Yao, D.B. Walther, D.M. Beck*, **L. Fei-Fei***. Hierarchical Mixture of Classification Experts Uncovers Interactions between Brain Regions. *Proceedings of the Neural Information Processing Systems (NIPS)*. 2009. (* indicates equal contribution)
- 56) B. Chai†, D.B. Walther†, D.M. Beck*, **L. Fei-Fei***. Exploring Functional Connectivity of the Human Brain using Multivariate Information Analysis. *Proceedings of the Neural Information Processing Systems (NIPS)*. 2009. (†,* indicates equal contribution)
- 57) L.-J. Li and **L. Fei-Fei**. OPTIMOL: automatic Online Picture collection via Incremental Model Learning. *International Journal of Computer Vision (IJCV)*. 2009.
- 58) H. Su, M. Sun, S. Savarese and **L. Fei-Fei**. A Multi-View Probabilistic Model for 3D Object Classes. *IEEE Inter. Conf. Comp. Vision (ICCV)*. 2009
- 59) M. Peelen, **L. Fei-Fei**, and S. Kastner. Neural mechanisms of rapid natural scene categorization in human visual cortex. *Nature*. doi:10.1038/nature08103. 2009.
- 60) D. B. Walther, E. Caddigan, **L. Fei-Fei***, and D. M. Beck*. Natural scene categories revealed in distributed patterns of activity in the human brain. *Journal of Neuroscience*, 29(34):10573-10581, 2009.
- 61) L.-J. Li, R. Socher and **L. Fei-Fei**. Towards Total Scene Understanding: Classification, Annotation and Segmentation in an Unsupervised Framework. *IEEE Inter.Conf. Comp. Vision and Pattern Recog (CVPR)*. 2009
- 62) C. Wang, D. Blei and **L. Fei-Fei**. Simultaneous Image Classification and Annotation. *IEEE Inter.Conf. Comp. Vision and Pattern Recog*. 2009
- 63) J. Deng, W. Dong, R. Socher, L.-J. Li, K. Li and **L. Fei-Fei**. ImageNet: A Preview of a Large-Scale Hierarchical Database. *IEEE Inter.Conf. Comp. Vision and Pattern Recog (CVPR)*. 2009
- 64) M. Sun, H. Su, S. Savarese and **L. Fei-Fei**. A Multi-View Probabilistic Model for 3D Object Classes. *IEEE Inter.Conf. Comp. Vision and Pattern Recog (CVPR)*. 2009
- 65) J.C. Niebles, B. Han, A. Ferencz and **L. Fei-Fei**. Extracting Moving Humans from Internet Videos. *IEEE European Conf. Computer Vision (ECCV)*, 2008.
- 66) B. Collins, J. Deng, K. Li and **L. Fei-Fei**. Towards scalable dataset construction: An active learning approach. *IEEE European Conf. Computer Vision (ECCV)*, 2008.
- 67) S. Savarese and **L. Fei-Fei**. View synthesis for recognizing unseen poses of object classes. *IEEE European Conf. Computer Vision (ECCV)*, 2008.
- 68) J.C. Niebles, H. Wang and **L. Fei-Fei**. Unsupervised Learning of Human Action Categories Using Spatial-Temporal Words. *International Journal of Computer Vision (IJCV)*, DOI 10.1007/s11263-007-0122-4, 2008.

- 69) S. Savarese, A. Del Pozo, J.C. Niebles, **L. Fei-Fei**, "Spatial-Temporal Correlations for Unsupervised Action Classification", *IEEE Workshop on Motion and Video Computing*, Copper Mountain, Colorado January 8-9, 2008.
- 70) S. Savarese and **L. Fei-Fei**. 3D generic object categorization, localization and pose estimation. *IEEE Intern. Conf. in Computer Vision (ICCV)*. 2007.
- 71) L. J. Li and **L. Fei-Fei**. What, where and who? Classifying event by scene and object recognition. *IEEE Intern. Conf. in Computer Vision (ICCV)*. 2007.
- 72) L. Cao and **L. Fei-Fei**. Spatially coherent latent topic model for concurrent object segmentation and classification. *IEEE Intern. Conf. in Computer Vision (ICCV)*. 2007.
- 73) D. B. Walther and **L. Fei-Fei**. Measuring the cost of deploying top-down visual attention. *Journal of Vision*, 7(11):9, 1-12, <http://journalofvision.org/7/11/9/>, doi:10.1167/7.11.9. 2007.
- 74) **L. Fei-Fei**, R. Fergus and P. Perona. Learning generative visual models for 101 object categories. *Computer Vision and Image Understanding (CVIU)*. 2007.
- 75) L.J. Li, J.C. Niebles and **L. Fei-Fei**. **OPTIMOL: a framework for Online Picture collection via Incremental Model Learning.**, *Association for the Advancement of Artificial Intelligence (AAAI) 2007 Robot Competition and Exhibition*, 2007
- 76) L.J. Li, G. Wang and **L. Fei-Fei**. OPTIMOL: automatic Object Picture collection via Incremental Model Learning. *IEEE Computer Vision and Pattern Recognition (CVPR)*. 2007. (*)
- 77) J.C. Niebles and **L. Fei-Fei**. A hierarchical model of shape and appearance for human action classification. *IEEE Computer Vision and Pattern Recognition (CVPR)*. 2007.
- 78) **L. Fei-Fei**, Iyer, A., Koch, C., & Perona, P. **What do we perceive in a glance of a real-world scene?** *Journal of Vision*, 7(1):10, 1-29, <http://journalofvision.org/7/1/10/>, doi:10.1167/7.1.10. 2007.
- 79) J.C. Niebles, H. Wang, **L. Fei-Fei**. Unsupervised learning of human action categories using spatial-temporal words. *British Machine Vision Conference (BMVC) 2006*.
- 80) A. Kushal, M. Rahrkar, J. Ponce, T. Huang and **L. Fei-Fei**. Audio-Visual Speaker Localization Using Graphical Models. *Int. Conf. Patt. Recog.* 2006.
- 81) J. Tu, A. Ivanovic, T. Huang, and **L. Fei-Fei**. Variational Shift Invariant Probabilistic PCA for Face Recognition. *Int. Conf. Patt. Recog.* 2006
- 82) **L. Fei-Fei**. Knowledge transfer in learning to recognize visual object classes. *IEEE IC DL*. 2006
- 83) G. Wang, Y. Zhang, and **L. Fei-Fei**. Using dependent local regions for categorizing objects in a generative framework. *IEEE Computer Vision and Pattern Recognition (CVPR)*. 2006.
- 84) **L. Fei-Fei**, R. Fergus and P. Perona. One-Shot Learning of 100 Object Categories. *IEEE Trans. Pattern Analysis and Machine Intelligence (PAMI)*. Vol28(4), 594 - 611, 2006.
- 85) R. VanRullen, L. Reddy and **L. Fei-Fei**. Binding for natural objects. *Vision Research*. Vol45(25-26), 3133-3144. 2005.
- 86) **L. Fei-Fei**, R. Fergus, and P. Perona. Learning generative visual models for 101 object categories. *Computer Vision and Image Understanding (CVIU)*, 2006.
- 87) R. Fergus, **L. Fei-Fei**, P. Perona and A. Zisserman. Learning Object Categories from Google's Image Search. *IEEE Intern. Conf. in Computer Vision (ICCV)*. 2005.
- 88) **L. Fei-Fei** and P. Perona. A Bayesian Hierarchical Model for Learning Natural Scene Categories. *IEEE Computer Vision and Pattern Recognition (CVPR)*. 2005.
- 89) **L. Fei-Fei**, R. VanRullen, C. Koch and P. Perona. Why does natural scene categorization require little attention? Exploring attentional requirements for natural and synthetic stimuli. *Visual Cognition*. 2005.

- 90) **L. Fei-Fei**, R. VanRullen, C. Koch and P. Perona. Why does natural scene recognition require little attention? Exploring attentional requirements for natural and synthetic stimuli. *Visual Cognition*. 12(6): pp893-924. 2005.
- 91) **L. Fei-Fei**, R. Fergus and P. Perona. Learning generative visual models from few training examples: an incremental Bayesian approach tested on 101 object categories. *IEEE Computer Vision and Pattern Recognition (CVPR), Workshop on Generative-Model Based Vision*. 2004.
- 92) S. Savarese, **L. Fei-Fei** and P. Perona, "What do reflections tell us about the shape of a mirror?" in *Applied Perception in Graphics and Visualization [sponsored by ACM SIGGRAPH], Los Angeles, August 7-8, 2004*.
- 93) **L. Fei-Fei**, R. Fergus and P. Perona. A Bayesian approach to unsupervised One-Shot learning of Object categories. *Proc. International Conference on Computer Vision (ICCV)*. 2003.
- 94) **F.F. Li**, R. VanRullen, C. Koch and P. Perona. Rapid natural scene categorization in the near absence of attention. *Proc. Natl. Acad. Sci.* 99, 8378 – 8383, 2002. ((*))
- 95) G.B. Stanley, **F.F. Li**, and Y. Dan. Reconstruction of natural scenes from ensemble responses in the LGN, *Journal of Neuroscience*, 19(18):8036-8042, 1999.

PEER-REVIEWED CONFERENCE ABSTRACTS

- 1) M.C. Iordan, M.R. Greene, D.M. Beck, **L. Fei-Fei**. Typicality Sharpens Object Representations in Object-Selective Cortex. Talk presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida. May, 2013.
- 2) M.R. Greene, A. Botros, D. M. Beck, **L. Fei-Fei**. Discovering Mental Representations of Complex Natural Scenes. Talk presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida. May, 2013.
- 3) C. Baldassano, D. M. Beck, **L. Fei-Fei**. Differential Connectivity Within the Parahippocampal Place Area. Talk presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida. May, 2013.
- 4) A. Botros, M.R. Greene, D. M. Beck, **L. Fei-Fei**. Oddness at a Glance: Unraveling the Time Course of Typical and Atypical Scene Perception. Poster presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida. May, 2013.
- 5) C. Baldassano, D.M. Beck, **L. Fei-Fei**. Neural Representation of Human-Object Interactions. Talk presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida, May, 2012.
- 6) M.C. Iordan, M.R. Greene, D.M. Beck, **L. Fei-Fei**. Neural Representations of Object Categories at Multiple Taxonomic Levels. Talk presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida, May, 2012.
- 7) M.C. Iordan, C. Baldassano, D.B. Walther, D.M. Beck, & **L. Fei-Fei**. Translation Invariance of Natural Scene Categories. Talk presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida, May, 2011.
- 8) C. Baldassano, M.C. Iordan, D.M. Beck, & **L. Fei-Fei**. Decoding Objects Undergoing Contextual Violations. Poster presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida, May, 2011.
- 9) E. Caddigan, **L. Fei-Fei**, & D.M. Beck. Natural scenes are robust to bubbling. Talk presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida, May, 2011.

- 10) E. Caddigan, D.B. Walther, **L. Fei-Fei**, & D.M. Beck. A Screen Full of Lines: Perceptual Differences between Natural Scene Category Exemplars. *18th Annual Object Perception, Attention and Memory (OPAM) Conference*, St. Louis, MO 2010.
- 11) D.M. Beck, D.B. Walther, B. Chai, E. Caddigan, & **Fei-Fei**. Line Drawings and Color Photographs Elicit Similar Neural Representations of Scene Categories. Talk presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida, May, 2010.
- 12) D.M. Beck, D.B. Walther & **Fei-Fei**. Decoding natural Scene Categories From fMRI Activity Patterns. *Workshop at Collaborative Research in Computational Neuroscience Meeting*, Baltimore, MD, 2010.
- 13) E. Caddigan, D.B. Walther, **L. Fei-Fei**, & D.M. Beck. The Good, the Bad, and the Scrambled: A Perceptual Advantage for Good Examples of Natural Scene Categories. Poster presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida, May, 2010.
- 14) D.B. Walther, B. Chai, E. Caddigan, D.M. Beck, & **L. Fei-Fei**. fMRI Decoding of Natural Scene Categories from Line Drawings. Talk presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida, May, 2010.
- 15) E. Caddigan, D. Walther, D.M. Beck, & **L. Fei-Fei**. Finding “good” features for natural scene classification. Poster presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida, May, 2010.
- 16) A. Torralbo, B. Chai, E. Caddigan, D. Walther, D.M. Beck, & **L. Fei-Fei**. Categorization of good and bad examples of natural scene categories. Poster presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida, May, 2009.
- 17) D. Walther, E. Caddigan, D.M. Beck, & **L. Fei-Fei**. Searchlight Analysis Reveals Brain Areas Involved in Scene Categorization. Poster presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida, May, 2009.
- 18) D.B. Walther, E. Caddigan, **L. Fei-Fei** & D.M. Beck. The Neural Representation of Natural Scene Categories. Talk at *the Society for Neurosciences (SfN)*, Washington DC, Nov, 2008.
- 19) E. Caddigan, D.B. Walther, **L. Fei-Fei**, & D.M. Beck. Decoding Scene Categories Using Distributed Patterns of fMRI activity. *European Conference on Visual Perception (ECPV)*, Utrecht, Netherlands, 2008.
- 20) E. Caddigan, D.B. Walther, **L. Fei-Fei** & D.M. Beck. Decoding of Natural Scene Categories from Transformed Images Using Distributed Patterns of fMRI Activity. Poster presented at the *Vision Sciences Society Annual Meeting*, Naples, Florida, May, 2008.
- 21) D.B. Walther, E. Caddigan, **L. Fei-Fei** & D.M. Beck. Decoding Perceived Natural Scene Categories from fMRI Activity in PPA and RSC, Talk presentation *Computational and Systems Neuroscience (COSYNE)*, Salt Lake City, Utah, 2008.
- 22) D.B. Walther, E. Caddigan, **L. Fei-Fei** & D.M. Beck. Predicting Perceived Natural Scene Categories from Distributed Patterns of fMRI Activity. *CVR summer conference*, Toronto, Canada, 2007.
- 23) D.B. Walther, E. Caddigan, J. Birgiolas, **L. Fei-Fei** & D.M. Beck. Decoding Distributed Patterns of Activity Associated With Natural Scene Categorization. *13th Annual Meeting of Human Brain Mapping*. Chicago, June 10-14, 2007.

- 24) E. Caddigan, D.B. Walther, J. Birgiolas, J. Weissman, D.M. Beck, & **L. Fei-Fei**. Decoding Distributed Patterns of Activity Associated with Natural Scene Categorization. Oral presented at the *Vision Sciences Society Annual Meeting*, Sarasota, Florida, May, 2007.
- 25) D. Walther, **L. Fei-Fei**, & C. Koch. Measuring the Cost of Deploying Visual Attention. Poster presented at the *Vision Sciences Society Annual Meeting*, Sarasota, Florida, May, 2006.
- 26) **L. Fei-Fei**, A. Iyer, C. Koch & P. Perona. What Do We See When We Glance At a Scene? Poster presented at the *Vision Sciences Society Annual Meeting*, Sarasota, Florida, May, 2004.
- 27) **L. Fei-Fei**, R. VanRullen, C. Koch, & P. Perona. Natural Scene Categorization in the Near Absence of Attention: Further Explorations. Poster presented at the *Vision Sciences Society Annual Meeting*, Sarasota, Florida, May, 2003.
- 28) S. Savarese, **L. Fei-Fei**, & P. Perona. Can We See the Shape of a Mirror? Poster presented at the *Vision Sciences Society Annual Meeting*, Sarasota, Florida, May, 2003.
- 29) R. VanRullen, L. Reddy, **L. Fei-Fei**, P. Perona, & C. Koch. A Neural Framework For Visual Search and Attention. *Munich Visual Search Symposium*, Munich, Germany. 2003.
- 30) **F.F. Li**, R. VanRullen, C. Koch & P. Perona. Rapid Natural Scene Categorization in the Near Absence of Attention. Poster presented at the *Vision Sciences Society Annual Meeting*, Sarasota, Florida, May, 2002.
- 31) **F. F. Li**, R. VanRullen, C. Koch & P. Perona. Rapid Natural Scene Categorization Without Attention. *Society for Neuroscience meeting (SfN)*, San Diego, 2001.
- 32) **F.F. Li**, L. Luobu, C. Duoji, Pincuo & Bazhu. A Preliminary Study on Tibetan Medical Treatment of Symptomatic Patients with H. pylori Infection. *Alternative Therapies*, 7(3):S-20, 2001.

PATENTS Fei-Fei Li, Jia Deng, Jonathan Krause & Alexander C. Berg. Method and System for Optimizing Accuracy-Specificity Trade-offs in Large Scale Visual Recognition, Stanford Docket #S12-199, patent pending.

AFFILIATIONS Member, IEEE Computer Society (IEEE)
2006 – present

Member, Association of Computing Machinery (ACM)
2013 – present

SERVICES CONFERENCE ORGANIZING COMMITTEE

- Program Chair, IEEE Conference of Computer Vision and Pattern Recognition (CVPR), 2016
- Local Arrangement Chair, IEEE Conference of Computer Vision and Pattern Recognition (CVPR), 2010
- Industrial Liaison, IEEE Conference of Computer Vision and Pattern Recognition (CVPR), 2012
- Area Chair, Neural Information Processing Systems (NIPS), 2010, 2011, 2013
- Area Chair, IEEE Conference of Computer Vision and Pattern Recognition (CVPR), 2009, 2010, 2012, 2013

- Area Chair, IEEE International Conference of Computer Vision (ICCV), 2007, 2011
- Area Chair, European Conference of Computer Vision (ECCV), 2012

WORKSHOP, TUTORIAL AND COURSE ORGANIZER OR (CO-)CHAIR

- Co-organizer, ImageNet Large-Scale Visual Recognition Challenge, 2010 (ECCV), 2011 (ICCV), 2012 (ECCV), 2013 (ICCV), 2014 (ECCV)
- Co-organizer, Stanford Workshop on AI and Knowledge (SWANK), 2014
- Co-organizer, Fine-Grained Categorization Challenge, 2013
- Co-organizer, Workshop on “Big Data Meets Computer Vision”, Neural Information Processing Systems (NIPS), 2012
- Co-chair, Mechanical Turk for Computer Vision, IEEE Conference of Computer Vision and Pattern Recognition (CVPR), 2010
- Organizer, Bay Area Vision Meeting (BAVM), 2009, 2012
- Co-director, 1st Sino-USA Summer School in Vision Learning and Pattern Recognition (VLPR), 2009
- Co-chair, 1st International Workshop in Visual Scene Understanding (ViSU), IEEE Conference of Computer Vision and Pattern Recognition (CVPR), 2009
- Co-chair, International Workshop in 3D Representation for Recognition, IEEE International Conference of Computer Vision (ICCV), 2007
- Co-organizer, Tutorial on Recognizing and Learning Object Categories, IEEE Conference of Computer Vision and Pattern Recognition (CVPR), 2007
- Co-chair, Vision Sciences Society (VSS) Annual Meeting Satellite Symposium: Natural Scene Understanding: Statistics, Recognition and Representation, 2007
- Co-chair, International Workshop in Computer Vision (in collaboration with Microsoft MSRA), Tibet, 2006
- Co-organizer, Tutorial on Recognizing and Learning Object Categories, IEEE International Conference on Computer Vision (ICCV), 2005

EDITORIAL BOARD AND JOURNAL REVIEWER

- Associate Editor: IEEE Transaction in Pattern Analysis and Machine Intelligence (PAMI)
- Computer Vision:
 - International Journal of Computer Vision (IJCV)
 - IEEE Transaction in Pattern Analysis and Machine Intelligence (PAMI)
 - Computer Vision and Image Understanding (CVIU)
 - ACM Transaction on Applied Perception (TAP)
- Machine Learning
 - Journal of Machine Learning Research (JMLR)
- Human Vision
 - Cognitive Psychology
 - Journal of Vision (JoV)
 - NeuroImage
 - Journal of Experimental Psychology (JEP)
 - ACM Transaction on Applied Perception (TAP)
 - Cerebral Cortex

REVIEWER OR REVIEWER COMMITTEE FOR FUNDING AGENCIES

- NSF, CAREER, proposal panelist, 2006

- NSF, Cognitive Neuroscience, panelist, reviewer, 2008, 2009
- NSF, Perception, Action and Cognitive, reviewer, 2008
- NSF, Robotic Intelligence, panelist, reviewer, 2009

SELECTED STANFORD UNIVERSITY SERVICE

- Director, Stanford Artificial Intelligence Lab, 2014 – present
- Member, Computer Science Department Strategy Committee, 2013 – 2014
- Member, Computer Science Department Faculty Search Committee, 2013 – 2014
- Faculty Advisor, Women in Engineering, 2012 – 2013

SPEECHES

KEYNOTE SPEECH, INVITED TALK, SEMINAR

“Quest for Visual Intelligence”

- Keynote Address: British Machine Vision Conference (BMVC), Nottingham, U.K. 2014.09
- Plenary Speech: International Conference on Pattern Recognition (ICPR), Stockholm, Sweden 2014.08
- Tencent, China 2014.07
- Distinguished Lecture: Sonoma State University, Computer Science Department 2014.04
- Distinguished Lecture: Simon-Fraser University, Canada, Computer Science Department 2014.03
- Adobe, USA 2014.01
- Qualcomm, USA 2014.01
- General Electric, USA 2013.12
- Yahoo! Big Thinker Lecture 2013.11

“A Tale of Two Senses: Recognizing Pictures and Grounding Words”

- Keynote Address: Computer Vision + Ontology Applied Cross-disciplinary Technologies (CONTACT) workshop at IEEE European Conference on Computer Vision (ECCV), Zurich, Switzerland 2014.09

“Human Behavior Understanding”

- Invited Talk: Human Behavior Understanding workshop at IEEE European Conference on Computer Vision (ECCV), Zurich, Switzerland 2014.09

“Let’s Reason About Object Affordance”

- Keynote Address: Visual Perception of Affordances and Functional Visual Primitives for Scene Analysis workshop at IEEE European Conference on Computer Vision (ECCV), Zurich, Switzerland 2014.09

“Large-Scale Visual Recognition (Powered by Big Data and Big Crowd)”

- Keynote Address: International Conference on Image Analysis and Processing (ICIAP), Naples, Italy 2013.09
- Microsoft Faculty Summit, Redmond, U.S.A. 2013.07
- Microsoft Machine Learning Summit, Paris, France 2013.04

“Fine-Grained Recognition: From Machines to Machine-Crowd Collaboration”

- Invited Speech: Fine-Grained Visual Categorization workshop at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Portland, U.S.A. 2013.06

“Understanding Human Activities”

- Invited Speech: Scene Understanding Workshop at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Portland, U.S.A. 2013.06

“Recognizing Millions of Categories, and Never Making a Mistake”

- Keynote Address: Vision and Language Workshop at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Portland, U.S.A. 2013.06

“Crowds in the Cloud: the Artificial Artificial Technology in Visual Recognition”

- Invited Speech: Computer Vision for the Web Workshop at European Conference on Computer Vision (ECCV), Florence, Italy 2012.10
- Keynote Address: Opus Venture Annual Conference, U.S.A. 2011.06

“Modeling Mutual Context of Object and Human Pose in Human-Object Interaction Activities”

- Invited Speech: International Conference on Machine Learning (ICML), Seattle, U.S.A. 2011.06

“Object Bank: A High-Level Image Representation for Complex Scene Understanding”

- Invited Speech: Workshop on Learning Architectures, Representations and Optimization for Speech and Visual Information Processing at ICML, Seattle, U.S.A. 2011.06

“Large-Scale Image Classification: ImageNet and ObjectBank”

- Microsoft Bing Tech Talk, U.S.A. 2011.06
- Google Tech Talk, U.S.A. 2011.03

“Recognizing Human-Object Interaction Activities”

- Keynote Address: Workshop on Activity Recognition Challenges at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Colorado Springs, U.S.A. 2011.06

“Building the Forest: Large-Scale Data and Modeling in Computer Vision”

- Invited Speech: Workshop on Large Scale Learning for Vision at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Colorado Springs, U.S.A. 2011.06

“Combining Randomization and Discrimination for Fine-Grained Categorization”

- Invited Speech: Workshop on Fine-Grained Visual Recognition at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Colorado Springs, U.S.A. 2011.06

“High-Level Visual Recognition (Handling Hidden Structure, High Dimensionality and Large-Scale Data)”

- Invited Speech, Information Science and Technology Seminar Series at California Institute of Technology, U.S.A. 2011.04
 - Invited Speech, Princeton University, U.S.A. 2010.12
 - Invited Speech, Workshop on Machine Learning for Next Generation Computer Vision Challenge at NIPS, Vancouver, Canada 2010.12
- “Visual Recognition Beyond Simple Actions and Isolated Actors and Objects”*
- Keynote Address, 2nd Workshop on User of Context in Video Processing (UCVP) at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), San Francisco, U.S.A. 2010.06
- “Building ImageNet: Keeping Humans in the Loop”*
- Keynote Address, Workshop on Advancing Computer Vision with Humans in the Loop at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), San Francisco, U.S.A. 2010.06
- “What, Where and Whom: What Do Humans See in a Glance of a Scene? And What Can Computers See?”*
- Invited Talk, NSF Workshop on Hybrid Neuro-Computer Vision System, Columbia University, U.S.A. 2010.04
- “Telling Stories in Images: Modeling Hierarchies In and Across Images” (“Towards Total Scene Understanding”, “Telling the Story of an Image”)*
- Invited Talk, Intelligence Seminar, Carnegie Mellon University 2010.03
 - Invited Talk, National Taiwan University, Taiwan 2010.01
 - Invited Talk, National ChiaoTung University, Taiwan 2010.01
 - Invited Talk, Google Research Lab, China 2008.07
 - Invited Talk, Chinese Academy of Science, China 2008.07
 - Keynote Speech, 2nd Annual Perceptual Science Forum, Rutgers University, U.S.A. 2008.05
 - Invited Talk, University of Maryland, U.S.A. 2008.03
 - Invited Talk, ONR MURI Workshop, Caltech, U.S.A. 2007.12
- “ImageNet: Crowdsourcing, Benchmarking and Other Cool Things”*
- Invited Talk, VASC Seminar, Carnegie Mellon University, U.S.A. 2010.03
 - Invited Talk, 2nd Workshop on Internet Vision at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Miami, U.S.A. 2009.06
- “From Bag-of-Words to Total Scene Understanding: Evolution of Topic Models in Visual Recognition”*
- Invited Talk, Workshop on Applications for Topic Models: Text and Beyond at NIPS, Vancouver, U.S.A. 2009.12
- “Natural Scene Categorization: Behaviors, Brains and Computers”*
- Invited Talk, 1st Workshop on Visual Place Categorization at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Miami, U.S.A. 2009.06
- “Understanding Human Motion”*

- Invited Talk, New York University, U.S.A. 2008.12
- “Discovering Meaning in the Visual World”*
- Invited Talk, Microsoft Research Asia (MSRA), Beijing, China 2007.08
 - Invited Talk, Google Research, NYC, U.S.A. 2007.06
 - Invited Talk, MIT Machine Vision Colloquium, U.S.A. 2007.05
 - Invited Talk, COSYNE Workshop, Utah, U.S.A. 2007.02
- “Natural Scene Classification Using Distributed fMRI Activity”*
- Invited Talk, Scene Understanding Symposium, MIT, U.S.A. 2007.02
- “Unsupervised Learning of Human Action Categories Using Spatial-Temporal Words”*
- Invited Talk, CALD Seminar Series, Carnegie Mellon University 2006.09
- “Natural Scene Categorization in Humans and Computers”*
- Invited Talk, Scene Understanding Symposium, MIT, U.S.A. 2006.02
 - Invited Talk, Graphics Lab, Princeton University, U.S.A. 2005.12
 - Invited Talk, Sarnoff Corporation, U.S.A. 2005.12
 - Invited Talk, Siemens Corporation, U.S.A. 2005.12
 - Invited Talk, AIVRH Seminar Series, UIUC, U.S.A. 2006.01
 - Invited Talk, Visual Geometry Group, Oxford University, U.K. 2005.04
- “A Bayesian Framework for Unsupervised One-Shot Learning of Object Categories”*
- Invited Talk, SHAPE Seminar Series, Brown University, U.S.A. 2004.02
 - Invited Talk, Electrical Engineering Dept, Princeton University 2004.02
 - Invited Talk, Computer Science Dept, New York University, U.S.A. 2003.12
 - Invited Talk, Louvain University, Belgium 2003.10
- “Natural Scene Categorization Without Attention”*
- Invited Talk, Katholieke Universiteit Leuven, Belgium 2003.10
 - Invited Talk, Statistics Dept, UCLA, U.S.A. 2003.05
 - Invited Talk, Brain and Cognitive Science Dept, MIT, U.S.A. 2003.02
 - Invited Talk, Plymouth University, U.K. 2003.01
 - Invited Talk, CNRS Toulouse, France 2002.12
 - Invited Talk, Psychology Dept, Princeton University, U.S.A. 2002.10
- TUTORIAL AND COURSE
- “Dataset s and Challenges”*
- Institute of Pure and Applied Math (IPAM), UCLA, U.S.A. 2013.08
- Multiple lectures on object recognition and scene understanding*
- 2nd Plus Advanced School on Computer Vision, Pattern Recognition and Image Processing, Italian Institute of Technology, Italy 2011.03
- “High-Level Visual Recognition: Understanding the Visual World Beyond Isolated Objects”*

- 6th Image Processing and Computer Vision School, Center for Mathematical Investigations (CIMAT), Mexico 2009.08

“Object Recognition: an Introduction and a Few Case Studies”

- Institute of Pure and Applied Math (IPAM), UCLA, U.S.A. 2007.07

“Recognizing and Learning Object Categories”

- Short Course Tutorial, IEEE International Conference on Computer Vision (ICCV), Beijing, China 2005.10
- Short Course Tutorial, IEEE International Conference on Computer Vision (ICCV), Rio de Janeiro, Brazil 2007.10

“Generative Models for Visual Objects and Object Recognition via Bayesian Inference”

- Machine Learning Autumn School, Cargenie Mellon University 2006.09

TEACHING

STANFORD UNIVERSITY

CS131: Computer Vision: Foundations and Applications

- Fall 2013, Enrollment: 35

CS231a (previous numbered CS223b): Computer Vision

- Fall 2012, Enrollment: 80
- Fall 2011, Enrollment: 110
- Winter 2010, Enrollment: 130

CS331 (previous numbered CS323): Advanced Reading in Computer Vision

- Winter 2014, Enrollment: 8
- Spring 2013, Enrollment: 18
- Fall 2009, Enrollment: 12

CS431 (previous numbered CS423b)/PSY250: High-Level Scene Understanding

- Spring 2014, co-instructor Prof. Kalanit Grill-Spector, Enrollment: 19
- Spring 2010, co-instructor Prof. Kalanit Grill-Spector, Enrollment: 20

PRINCETON UNIVERSITY

COS429: Computer Vision

- Fall 2008, Enrollment: 30
- Fall 2007, Enrollment: 28

COS598: High-Level Recognition in Computer Vision

- Spring 2007, Enrollment: 14

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

ECE546: Computer Vision

- Fall 2006, Enrollment: 45

ECE598: Readings in Computer Vision and Learning

- Fall 2005, Enrollment: 25

ADVISING

POSTDOCTORAL SCHOLARS

- 2011.06 – present Michelle Greene (Ph.D. from MIT)
- 2012.09 – present Alexandre Alahi (Ph.D. from EPFL)
- 2013.01 – present Armand Joulin (Ph.D. from Ecole Polytechnique)
- 2013.01 – present Guido Pusiol (Ph.D. from INRIA)
- 2013.07 – present Alireza Fathi (Ph.D. from Georgia Tech)
- 2012.06 – 2013.10 Jia Deng (Ph.D. from Princeton)
Placement: Assistant Professor at U. Michigan Ann Arbor
- 2006 – 2010 Dirk B. Walther (Ph.D. from California Institute of Technology), UIUC Beckman Institute
Placement: Assistant Professor at U. of Toronto, Canada

PH.D. STUDENTS

- 2013 – present Justin Johnson (CS, Stanford)
- 2013 – present Serena Yeung (EE, Stanford)
- 2013 – present Timnit Gebu (EE, Stanford)
- 2012 – present Andrej Karparthy (CS, Stanford)
- 2012 – present Vignesh Ramanathan (EE, Stanford)
- 2011 – present Jon Krause (CS, Stanford)
- 2010 – present Kevin Tang (CS, Stanford)
- 2009 – present Marius Catalin Iordan (CS, Stanford)
- 2009 – present Chris Baldassano (CS, Stanford)
- 2008 – 2013 Bangpeng Yao (CS, Stanford)
Dissertation: *“Understanding Human Actions in Still Images”*
Placement: Algorithm Developer at Hudson River Trading
- 2007 – 2012 Jia Deng (CS, Princeton)
Dissertation: *“Large Scale Visual Recognition”*
Placement: Assistant Professor at U. Michigan, Ann Arbor
- 2006 – 2011 Jia Li (CS, Stanford)
Dissertation: *“Semantic Image Understanding from the Web, in Large Scale and with Real-World Data”*
Placement: Research Scientist at Yahoo! Research
- 2005 – 2010 Juan Carlos Niebles (EE, Princeton)
Dissertation: *“Extracting Moving People and Categorizing Their Activities in Videos”*
Placement: Assistant Professor at Universidad del Norte, Colombia

MASTER STUDENTS

- 2013 – present Yuke Zhu (CS, Stanford)
- 2014 – present Ranjay Krishna (CS, Stanford)
- 2014 – present Sean Ma (CS, Stanford)
- 2010 – 2011 Aditya Khosla (CS, Stanford)
Placement: Ph.D. student at MIT
- 2011 – 2013 Yongwhan Lim (CS, Stanford)
Placement: Ph.D. student at MIT
- 2010 – 2011 Vinayak Agarwal (CS, Stanford)
- 2010 – 2011 Rob Cosgrill (EE, Stanford)

- Placement: VideoSurf, Inc.
- 2009 – 2010 Georgios Georgiadis (CS, Stanford)
Placement: Ph.D. student at UCLA
 - 2010 – 2011 Dan Goodwin (EE, Stanford)
Placement: IDEO, Inc
 - 2009 – 2011 Yu Lou (CS, Stanford)
Placement: A9.com
 - 2010 – 2012 Sanjeev Satheesh (CS, Stanford)
Placement: Microsoft
 - 2011 – 2012 Jiahu Shi (CS, Stanford)
 - 2010 – 2012 Ningxuan Wang (CS, Stanford)
Placement: Microsoft
 - 2010 – 2012 Haizi Yu (Statistics, Stanford)

UNDERGRADUATE STUDENTS

- 2014 – present Emily Tang (CS, Stanford)
- 2014 – present Clara Fanning-Jiang (CS, Stanford)
- 2009 – 2011 Yongwhan Lim (CS, Stanford)
- 2007 – 2008 Bredan Collins (CS, Princeton)
- 2009 Minh Do (EE, Princeton)
- 2007 – 2008 Paul Kompfer (CS, Princeton)
- 2007 – 2008 Douglas Horhensee (CS, Princeton)
- 2006 – 2007 Brian Leo Quanz (ECE, UIUC)
- 2006 – 2007 Justos Birgiolos (ECE, UIUC)

FUNDING

“Top-Down And Bottom-Up Visual Mechanisms at Multiple Spatial and Temporal Scales: Experimental Investigation and Computational Modeling”

Source: ONR MURI(lead PI), 2014.09 – 2018.08

“Using Large-Scale Image Data for Online Social Media Analysis”

Source: NSF ISS – 1115313 (PI), 2011.08 – 2014.08

“ALADDIN – Automated Low-Level Analysis and Description of Diverse Intelligence”

Source: IARPA (sub to Kitware, Inc), 2010.10 – 2014.01

“IBOT: Image-Based Object Tracking”

Source: DARPA N10AP20035 (PI), 2010.10 – 2013.04

“Mind’s Eye: Recognizing Activities with Probabilistically Grounded Visual Intelligence Models”

Source: DARPA (sub to U.C. Berkeley), 2010.06 – 2015.06

“Knowledge Representation, Reasoning and Learning for Understanding Scenes and Events”

Source: ONR MURI (sub to UCLA), 2010.06 – 2015.06

“Understanding Visual Scenes: Combining Data-Driven Learning and Evaluation with Hierarchical Image Modeling”

Source: DARPA CSSG (PI), 2010.04 – 2012.04

“Towards Large-Scale Image Understanding and Annotation”

Source: Google Research Award, 2010

“Telling the Story of a Visual World: Event Classification and Integrated Image Understanding”

Source: NSF CAREER IIS-0845230 (PI), 2009.07 – 2013.06

“CRCNS: fMRI Pattern Analysis of Neural Correlates of Natural Scene Categories”

Source: NIH R01 EY019429, 2008.09 – 2011.06

“Image and Video Understanding via Hierarchical Representation and Model Learning”

Source: Eastman Kodak Company, 2009

“Pattern Recognition and Mind Reading: an Emerging Field”

Source: UIUC Critical Research Initiative (CRI) (co-PI), 2006.07 – 2007.07

FULL EMPLOYMENT

Associate Professor (tenured)

2012.08 – present

Computer Science Department, Stanford University, CA, USA

Director, Stanford Artificial Intelligence Lab (SAIL)

2014 – present

Computer Science Department, Stanford University, CA, USA

Assistant Professor

2009.06 – 2012.08

Computer Science Department, Stanford University, CA, USA

Assistant Professor

2007.01 – 2009.06

Computer Science Department, Princeton University, NJ, USA

Associated Assistant Professor

2007.01 – 2009.06

Psychology Department, Princeton University, NJ, USA

Assistant Professor

2005.08 – 2006.12

Electrical and Computer Engineering Department, University of Illinois Urbana-Champaign, IL USA

Associated Assistant Professor

2005.08 – 2006.12

Psychology Department, University of Illinois Urbana-Champaign, IL USA

Visiting Research Scientist

2005.03 – 2005.06
Microsoft Research Center Cambridge, Cambridge, UK

OTHER EXPERIENCE

Advisor
2014.05 – present
Vicarious, Inc.

Advisor (Technical Board)
2011.08 – present
Prism Skylabs, Inc.

Advisor (Technical Board)
2012.02 – present
GaussSurgical, Inc.

Research Scientist
2002 – 2004
One H.E.A.R.T. Foundation, Utah, USA
Project: ethnographic research on maternal health in rural and nomadic Tibet

Principal Investigator
1999 – 2000
Tibetan Medicine Hospital (Mentsikhang), Lhasa, Tibet
Project: a clinical study on Tibetan medicine treatment for *Helicobacter pylori* infection in rural and nomadic Tibetan population