

Fei-Fei Li

(Publish as L. Fei-Fei)
Professor of Computer Science
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EDUCATION

CALIFORNIA INSTITUTE OF TECHNOLOGY **Pasadena, CA, U.S.A.**
Doctor of Philosophy in Electrical Engineering (Ph.D) **2001 - 2005**

- Advisors: Pietro Perona (primary) and Christof Koch (secondary)
- Dissertation: “*Visual Recognition: Computational Models and Human Psychophysics*”

CALIFORNIA INSTITUTE OF TECHNOLOGY **Pasadena, CA, U.S.A.**
Master of Science in Electrical Engineering **2001 - 2003**

- Advisors: Pietro Perona (primary) and Christof Koch (secondary)

PRINCETON UNIVERSITY **Princeton, NJ, U.S.A.**
Bachelor of Arts in Physics **1995 - 1999**

- Graduated with High Honors
- Certificates (equivalent of Minor) in Applied & Computational Mathematics, and Engineering Physics

WORK EXPERIENCES - ACADEMIA

STANFORD UNIVERSITY **Stanford, CA, U.S.A.**
Professor, Computer Science Department **2018.01 - Present**
Co-Director, Stanford Human-Centered AI Institute (HAI) **2018.10 - Present**
Director, Stanford Artificial Intelligence Lab (SAIL) **2013 - 2018.10**
Associate Professor, Computer Science Department **2012.08 - 2017.12**
Assistant Professor, Computer Science Department **2009.06 - 2012.08**

- Diversity committee, Computer Science Department (2016, 2017)
- Co-Founder/Co-Director, Stanford AI Lab Outreach Summer “*SAILORS*” (2015 - present)
- Faculty Advisor, Stanford AI Lab AI women’s group (2015 - present)
- Founding Director, Stanford-Toyota Human-Centric AI Research Center (09/2015 - 12/2016)

PRINCETON UNIVERSITY **Princeton, NJ, U.S.A.**
Assistant Professor, Computer Science Department **2007.01 - 2009.06**
Associated Assistant Professor, Psychology Department **2007.01 - 2009.06**

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN **Urbana-Champaign, IL, U.S.A.**
Assistant Professor, Electrical and Computer Engineering Department **2005.08 - 2006.12**
Associated Assistant Professor, Psychology Department **2005.08 - 2006.12**

MICROSOFT RESEARCH CENTER CAMBRIDGE **Cambridge, UK**
Visiting Research Scientist **2005.03 - 2005.06**

WORK EXPERIENCES -- INDUSTRY, NON-PROFIT & MISCELLANEOUS

AI4ALL - Non-profit organization for AI education and diversity **Oakland, U.S.A.**
Co-Founder & Chairperson of the Board **2017.03 - present**

- Co-Founder & Director of precursor program -- SAILORS (Stanford AI Lab Outreach Summer program) (2015 - 2017)

GOOGLE INC.

Mountain View, CA, U.S.A.

Chief Scientist of AI/ML, Vice President, Google Cloud AI

2017.01 - 2018.09

- As part of an academic sabbatical leave from Stanford
- Co-founder of Cloud AI business unit
- Overall responsibility of product engineering, product management, basic science research and thought leadership
- Grow the Cloud AI team, business, and partnership
- Chief architect of major Google Cloud AI products such as AutoML Vision, NLP, Translation
- Business leader responsible for acquisition of Kaggle.com
- Business leader responsible for establishing Google AI's China Center in Beijing

ANDREESSON & HOROWITZ INC.

2016.05 - 2017.01

Professor in Residence

SNAP INC.

2014.11 - 2017.01

Advisor

VICARIOUS, INC.

2014.05 - present

Advisor

GAUSSSURGICAL, INC.

2012.02 - present

Advisor (Technical Board)

HONORS & DISTINCTIONS

- 2019 Further Award, National Geographic (“recognizes a leader whose work is uniquely innovative, timely, and impactful—someone who has boldly pushed the boundaries of his or her field, and who serves as an outstanding ambassador for that breakthrough work.”)
- 2019 Best Paper Award, International Conference on Robotics and Automation (ICRA)
- 2018 Fellow, Association for Computing Machinery (ACM)
- 2018 One of “the World’s 50 Top Women in Tech”, Forbes Magazine
- 2017 WITI@UC Athena Award for Academic Leadership, University of California
- 2017 One of Seven Women in Technology honorees, Elle Magazine
- 2016 J.K. Aggarwal Prize, International Association for Pattern Recognition (IAPR)
- 2016 One of the 40 “The great immigrants,” Carnegie Foundation
- 2016 IEEE PAMI Mark Everingham Prize
- 2016 Pioneer in AI Research Award, NVidia
- 2015 One of the Leading Global Thinkers of 2015, Foreign Policy
- 2014 IBM Faculty Fellowship Award
- 2012 W.M. Keck Foundation Faculty Scholar
- 2012 Yahoo! Labs Faculty Research Engagement Program (FREPP) Award, Yahoo!
- 2012/11 1st Place in PASCAL VOC Action Classification Challenge (internationally recognized computer vision competition)
- 2011 Alfred P. Sloan Fellowship (highly prestigious fellowship awarded to “best scholars in [the current] generation”)
- 2010 Best Paper Honorable Mention, IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- 2010 Google Research Award
- 2009 Stanford Terman Fellowship
- 2009 NSF CAREER Award
- 2008 Google Research Award

- 2007 1st Place in Semantic Robot Vision Challenge Software League - NSF / AAAI sponsored visual recognition competition
- 2006 Microsoft Research New Faculty Fellowship - highly selective, awarded to “the best new professors in computing disciplines today”
- 2005 IEEE ICCV Best Short Course Prize (with R. Fergus and A. Torralba)
- 1999 - 2002 National Science Foundation Postgraduate Fellowship
- 1999 - 2002 Paul and Daisy Soros Fellowship for New Americans
- 1999 - 2000 Princeton University Martin Dale '53 Fellowship
- 1999 Princeton University Kusaka Memorial Prize in Physics

SPEECHES & SEMINARS

“Human-Centered AI: A Case of Cognitive Science”

2018.10 Keynote, Wu Tsai Neuroscience Institute, Stanford, U.S.A.

“Artificial Intelligence: Great Power Comes with Great Responsibilities”

2018.06 Expert witness, Congressional Hearing

“Artificial Intelligence: A Deeply Human Pursuit”

2018.04 Invited Lecture for the Lorna Casselton Memorial Lecture Series, Oxford University, Oxford, U.K.

2017.10 Keynote, Grace Hopper Conference, FL, USA

“Towards Ambient Intelligence in AI-assisted Healthcare Spaces”

2018.04 Invited Lecture for Alan Turing Institute, London, U.K.

“Visual Intelligence: Beyond ImageNet”

2017.10 Plenary, International Conference on Intelligent Robots and Systems (IROS), Vancouver, Canada

2017.10 Keynote, Chinese National Computer Congress (CNCC), Fuzhou, China

“ImageNet”

2017.09 Talk, ACM Learning Webinar

2017.05 Keynote, IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), Honolulu, USA

“Visual Intelligence: Shining Light on the Digital World”

2017.05 Inclusive AI, Berkeley, USA

2017.06 Plenary Talk: United Nations & ITU AI for Good Conference, Geneva, Switzerland

“Seeing is Understanding”

2017.03 Invited Talk: AAAI Workshop on Visual Understanding, Stanford, USA

“Teaching Computers To See”

2015.03 Invited Talk: TED annual conference 2015, Vancouver, Canada

“Guardian Angels: Towards AI-assisted Care”

2016.05 Invited Talk: Big Data in Biomedicine, Stanford, CA, USA

“Quest for Visual Intelligence”

2017.02 Keynote Talk: Women in Data Science (WiDS), Stanford, U.S.A.

2017.01 Keynote Talk: Future Forum Annual Conference, Beijing, China

2016.12 Plenary Talk: International Conference of Pattern Recognition (ICPR), Cancun, Mexico

2016.11 Distinguished Speaker Seminar: UC Berkeley EECS Dept, U.S.A.

2016.06 Keynote Talk: Stanford-White House Office of Science and Technology Policies (OSTP) “The Future of Artificial Intelligence” Symposium, Stanford, CA, USA

2016.06 Keynote Talk: International Conference on Machine Learning (ICML), New York, USA

2016.03 Keynote Talk: Sandisk Tech Day, CA, USA
2015.11 Invited Talk: Stanford Women in Data Science (WiDS)
2015.12 Keynote Talk: Yahoo! Tech Day, CA, USA
2015.08 Keynote Talk: VM World Conference, CA, USA
2015.06 Plenary Talk: NAACL, CO, USA
2015.05 Keynote Talk: Machine Learning Conference, Amazon, Seattle
2015.04 Keynote Talk: IEEE Big Data Symposium, San Mateo, USA
2015.02 Featured Talk: Strata+Hadoop World 2015
2014.11 Invited Talk: Cognitive Systems Colloquium, Almedan, U.S.
2014.11 Snapchat, USA
2014.09 Keynote Address: British Machine Vision Conference (BMVC), Nottingham, U.K.
2014.08 Plenary Speech: International Conference on Pattern Recognition (ICPR), Stockholm, Sweden
2014.07 Tencent, China
2014.04 Distinguished Lecture: Sonoma State University, Computer Science Department, CA, U.S.
2014.03 Distinguished Lecture: Simon-Fraser University, Canada
2014.01 Adobe, USA
2014.01 Qualcomm, USA
2013.12 General Electric, USA
2013.11 Yahoo! Big Thinker Lecture

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

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

“Human Behavior Understanding”

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

“Let’s Reason About Object Affordance”

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

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

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

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

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

“Understanding Human Activities”

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

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

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

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

2012.10 Invited Speech: Computer Vision for the Web Workshop at European Conference on Computer Vision (ECCV), Florence, Italy

2011.06 Keynote Address: Opus Venture Annual Conference, U.S.A.

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

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

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

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

“Large-Scale Image Classification: ImageNet and ObjectBank”

2011.06 Microsoft Bing Tech Talk, Redmond, U.S.A.

2011.03 Google Tech Talk, Mountain View, U.S.A.

“Recognizing Human-Object Interaction Activities”

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

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

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

“Combining Randomization and Discrimination for Fine-Grained Categorization”

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

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

2011.04 Invited Speech, Information Science and Technology Seminar Series at California Institute of Technology, U.S.A.

2010.12 Invited Speech, Princeton University, U.S.A.

2010.02 Invited Speech, Workshop on Machine Learning for Next Generation Computer Vision Challenge at NIPS, Vancouver, Canada

“Visual Recognition Beyond Simple Actions and Isolated Actors and Objects”

2010.06 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.

“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.

“What, Where and Whom: What Do Humans See in a Glance of a Scene? And What Can Computers See?”

2010.04 Invited Talk, NSF Workshop on Hybrid Neuro-Computer Vision System, Columbia University, U.S.A.

“Telling Stories in Images: Modeling Hierarchies In and Across Images” (“Towards Total Scene Understanding”, “Telling the Story of an Image”)

2010.03 Invited Talk, Intelligence Seminar, Carnegie Mellon University, U.S.A.

2010.01 Invited Talk, National Taiwan University, Taiwan

2010.01 Invited Talk, National ChiaoTung University, Taiwan

2008.07 Invited Talk, Google Research Lab, China

2008.07 Invited Talk, Chinese Academy of Science, China

2008.05 Keynote Speech, 2nd Annual Perceptual Science Forum, Rutgers University, U.S.A.

2008.03 Invited Talk, University of Maryland, U.S.A.

2007.12 Invited Talk, ONR MURI Workshop, Caltech, U.S.A.

“ImageNet: Crowdsourcing, Benchmarking and Other Cool Things”

2010.03 Invited Talk, VASC Seminar, Carnegie Mellon University, U.S.A.

2009.06 Invited Talk, 2nd Workshop on Internet Vision at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Miami, U.S.A.

“From Bag-of-Words to Total Scene Understanding: Evolution of Topic Models in Visual Recognition”

2009.12 Invited Talk, Workshop on Applications for Topic Models: Text and Beyond at NIPS, Vancouver, U.S.A.

“Natural Scene Categorization: Behaviors, Brains and Computers”

2009.06 Invited Talk, 1st Workshop on Visual Place Categorization at IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Miami, U.S.A.

“Understanding Human Motion”

2008.12 Invited Talk, New York University, U.S.A.

“Discovering Meaning in the Visual World”

2007.08 Invited Talk, Microsoft Research Asia (MSRA), Beijing, China

2007.06 Invited Talk, Google Research, NYC, U.S.A.

2007.05 Invited Talk, MIT Machine Vision Colloquium, U.S.A.

2007.02 Invited Talk, COSYNE Workshop, Utah, U.S.A.

“Natural Scene Classification Using Distributed fMRI Activity”

2007.02 Invited Talk, Scene Understanding Symposium, MIT, U.S.A.

“Unsupervised Learning of Human Action Categories Using Spatial-Temporal Words”

2006.09 Invited Talk, CALD Seminar Series, Carnegie Mellon University, U.S.A.

“Natural Scene Categorization in Humans and Computers”

2006.02 Invited Talk, Scene Understanding Symposium, MIT, U.S.A.

2006.01 Invited Talk, AIVRH Seminar Series, UIUC, U.S.A.

2005.12 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.

2005.04 Invited Talk, Visual Geometry Group, Oxford University, U.K.

“A Bayesian Framework for Unsupervised One-Shot Learning of Object Categories”

2004.02 Invited Talk, SHAPE Seminar Series, Brown University, U.S.A.

2004.02 Invited Talk, Electrical Engineering Dept, Princeton University, U.S.A.

2003.12 Invited Talk, Computer Science Dept, New York University, U.S.A.

2003.10 Invited Talk, Louvain University, Belgium

“Natural Scene Categorization Without Attention”

2003.10 Invited Talk, Katholieke Universiteit Leuven, Belgium

2003.05 Invited Talk, Statistics Dept, UCLA, U.S.A.

2003.02 Invited Talk, Brain and Cognitive Science Dept, MIT, U.S.A.

2003.01 Invited Talk, Plymouth University, U.K.

2002.12 Invited Talk, CNRS Toulouse, France

2002.10 Invited Talk, Psychology Dept, Princeton University, U.S.A.

PUBLICATIONS
BOOK CHAPTERS, REFEREED JOURNALS AND CONFERENCE PAPERS
([Google Scholar link](#))

1. Lee, M., Zhu, Y., Srinivasan, K., Shah, P., Savarese, S., Fei-Fei, L., Garg, A., Bohg, J. Making Sense of Vision and Touch: Self-Supervised Learning of Multimodal Representations for Contact-Rich Tasks. *International Conference on Robotics and Automation (ICRA)*, 2019.
2. Ranjay Krishna, Michael Bernstein, Li Fei-Fei. Information Maximizing Visual Question Generation. *International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2019.
3. Kuan Fang, Alexander Toshev, Li Fei-Fei, Silvio Savarese. Scene Memory Transformer for Embodied Agents in Long-Horizon Tasks. *International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2019.
4. Chien-Yi Chang, De-An Huang, Yanan Sui, Li Fei-Fei, Juan Carlos Niebles. D3TW: Discriminative Differentiable Dynamic Time Warping for Weakly Supervised Action Alignment and Segmentation. *International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2019.
5. De-An Huang*, Suraj Nair*, Danfei Xu*, Yuke Zhu, Animesh Garg, Li Fei-Fei, Silvio Savarese, Juan Carlos Niebles. Neural Task Graphs: Generalizing to Unseen Tasks from a Single Video Demonstration. *International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2019.
6. Albert Haque, Michelle Guo, Prateek Verma, Li Fei-Fei. Audio-Linguistic Embeddings for Spoken Sentences. *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*. 2019
7. Serena Yeung, Francesca Rinaldo, Jeffrey Jopling, Bingbin Liu, Rishab Mehra, Lance Downing, Michelle Guo, Gabriel Bianconi, Alexandre Alahi, Julia Lee, Brandi Campbell, Kayla Deru, William Beninati, Arnold Milstein, Li, Fei-Fei. A Computer Vision System to Detect Bedside Patient Mobilization. *Nature Digital Medicine*. 2019.
8. Jun-Ting Hsieh, Bingbin Liu, De-An Huang, Li Fei-Fei, Juan Carlos Niebles. Learning to Decompose and Disentangle Representations for Video Prediction. *Neural Information Processing Systems (NIPS)*, 2018.
9. Nick Haber*, Damian Mrowca*, Li Fei-Fei, Daniel L K. Yamins. Learning to Play with Intrinsically-Motivated Self-Aware Agents. *Neural Information Processing Systems (NIPS)*, 2018.
10. Damian Mrowca*, Chengxu Zhuang*, Elias Wang*, Nick Haber, Li Fei-Fei, Joshua B Tenenbaum, Daniel L. K. Yamins. Flexible Neural Representation for Physics Prediction. *Neural Information Processing Systems (NIPS)*, 2018.
11. Linxi Fan*, Yuke Zhu*, Jiren Zhu, Zihua Liu, Orien Zeng, Anchit Gupta, Joan Creus-Costa, Silvio Savarese, Li Fei-Fei. SURREAL: Open-Source Reinforcement Learning Framework and Robot Manipulation Benchmark. *Conference on Robot Learning (CoRL)*. 2018.
12. Ajay Mandlekar, Yuke Zhu, Animesh Garg, Jonathan Boher, Max Spero, Albert Tung, Julian Gao, John Emmons, Anchit Gupta, Emre Orbay, Silvio Savarese, Li Fei-Fei. RoboTurk: A Crowdsourcing Platform for Robotic Skill Learning through Imitation. *Conference on Robot Learning (CoRL)*. 2018.
13. M. Guo, E. Chou, D.-A. Huang, S. Song, S. Yeung, & L. Fei-Fei. NEURAL GRAPH MATCHING NETWORKS FOR FEWSHOT 3D ACTION RECOGNITION. *IEEE European Conference on Computer Vision (ECCV)*. 2018.
14. M. Guo, A. Haque, D.-A. Huang, S. Yeung, & L. Fei-Fei. FOCUS ON THE HARD THINGS: DYNAMIC TASK PRIORITIZATION FOR MULTITASK LEARNING. *IEEE European Conference on Computer Vision (ECCV)*. 2018.
15. J. Zhu*, R. Kaplan*, J. Johnson, & L. Fei-Fei, HIDDEN: HIDING DATA WITH DEEP NETWORKS, *IEEE European Conference on Computer Vision (ECCV)*. 2018.
16. B. Liu, S. Yeung, E. Chou, D.-A. Huang, L. Fei-Fei, & J.C. Niebles. TEMPORAL MODULAR NETWORKS FOR RETRIEVING COMPLEX COMPOSITIONAL ACTIVITIES IN VIDEOS. *IEEE European Conference on Computer Vision (ECCV)*. 2018.

17. Z. Luo, J.-T. Hsieh, L. Jiang, J.C. Niebles, & L. Fei-Fei. GRAPH DISTILLATION FOR ACTION DETECTION WITH PRIVILEGED INFORMATION. *IEEE European Conference on Computer Vision (ECCV)*. 2018.
18. N. Haber*, D. Mrowca*, L. Fei-Fei, & D. L. K. Yamins. EMERGENCE OF STRUCTURED BEHAVIORS FROM CURIOSITY-BASED INTRINSIC MOTIVATION. *Annual Meeting of Cognitive Science Society*. 2018.
19. Z. Luo*, J.-T. Hsieh*, N. Balachandar, S. Yeung, G. Pusiol, J. Luxenberg, G. Li, L.-J. Li, N. L. Downing, A. Milstein, & L. Fei-Fei. COMPUTER VISION-BASED DESCRIPTIVE ANALYTICS OF SENIORS' DAILY ACTIVITIES FOR LONG-TERM HEALTH MONITORING. *International Conference on Machine Learning and Healthcare (MLHC)*. 2018.
20. K. Fang, Y. Zhu, A. Garg, A. Kurenkov, V. Mehta, L. Fei-Fei, & S. Savarese. LEARNING TASK-ORIENTED GRASPING FOR TOOL MANIPULATION FROM SIMULATED SELF-SUPERVISION. *Robotics: Science and Systems (RSS)*. 2018.
21. D. Xu*, S. Nair*, Y. Zhu, J. Gao, A. Garg, L. Fei-Fei, & S. Savarese. NEURAL TASK PROGRAMMING: LEARNING TO GENERALIZE ACROSS HIERARCHICAL TASKS. *IEEE International Conference on Robotics and Automation (ICRA)*. 2018.
22. A. Gupta, J. Johnson, L. Fei-Fei, S. Savarese, & A. Alahi. SOCIAL GAN: SOCIALLY ACCEPTABLE TRAJECTORIES WITH GENERATIVE ADVERSARIAL NETWORKS. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2018.
23. J. Johnson, A. Gupta, & L. Fei-Fei. IMAGE GENERATION FROM SCENE GRAPHS. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2018.
24. R. Krishna, I. Chami, M. Bernstein, & L. Fei-Fei. REFERRING RELATIONSHIPS. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2018.
25. D.-A. Huang*, S.I Buch*, L. Dery, A. Garg, L. Fei-Fei, & J.C. Niebles. FINDING "IT": WEAKLY-SUPERVISED REFERENCE-AWARE VISUAL GROUNDING IN INSTRUCTIONAL VIDEO. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2018.
26. D.-A. Huang, V. Ramanathan, D. Mahajan, L. Torresani, M. Paluri, L. Fei-Fei, & J.C. Niebles. WHAT MAKES A VIDEO A VIDEO: ANALYZING TEMPORAL INFORMATION IN VIDEO UNDERSTANDING MODELS AND DATASETS. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2018.
27. S. Yeung, L. N. Downing, L. Fei-Fei, & A. Milstein. Computer Vision – From Driver Assistance to Hospital Safety. *New England Journal of Medicine (NEJM)*. 2018.
28. Z. Luo, Y. Zou, J. Hoffman, & L. Fei-Fei. Label Efficient Learning of Transferable Representations across Domains and Tasks. *Neural Information Processing Systems (NIPS)*. 2017.
29. A. Jin, S. Yeung, J. Jopling, J. Krause, D. Azagury, A. Milstein, & Li Fei-Fei. Tool Detection and Operative Skill Assessment in Surgical Videos Using Region-Based Convolutional Neural Networks. *Machine Learning for Healthcare (MLAH) Workshop at NIPS*. 2017. (Best paper award)
30. O. Russakovsky, N. Jin, M. Andriluka, G. Mori, & L. Fei-Fei. Every Moment Counts: Dense Detailed Labeling of Actions in Complex Videos. *International Journal of Computer Vision (IJCV)*. 2017.
31. A. Gupta, J. Johnson, A. Alahi, & L. Fei-Fei. Characterizing and Improving Stability in Neural Style Transfer. *IEEE and CVF International Conference on Computer Vision (ICCV)*. 2017.
32. T. Gebu, J. Hoffman & L. Fei-Fei. Fine-grained Recognition in the Wild: A Multi-Task Domain Adaptation Approach. *IEEE and CVF International Conference on Computer Vision (ICCV)*. 2017.
33. Y. Zhu*, D. Gordon*, E. Kolve, D. Fox, L. Fei-Fei, A. Gupta, R. Mottaghi, & A. Farhadi, Visual Semantic Planning using Deep Successor Representations. *IEEE and CVF International Conference on Computer Vision (ICCV)*. 2017.
34. R. Krishna, K. Hata, F. Ren, L. Fei-Fei, J.C. Niebles. Dense-Captioning Events in Videos. *IEEE and CVF International Conference on Computer Vision (ICCV)*. 2017.
35. J. Johnson, B. Hariharan, L. van der Maaten, J. Hoffman, L. Fei-Fei, C. L. Zitnick, R. Girshick. Inferring and Executing Programs for Visual Reasoning. *IEEE and CVF International Conference on Computer Vision (ICCV)*. 2017.

36. A. Mandlekar*, Y. Zhu*, A. Garg*, L. Fei-Fei, S. Savarese. Adversarially Robust Policy Learning through Active Construction of Physically-Plausible Perturbations. *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*. 2017.
37. S. Buch, V. Escorcia, B. Ghanem, L. Fei-Fei, J.C. Niebles. End-to-End, Single-Stream Temporal Action Detection in Untrimmed Videos. *The British Machine Vision Conference (BMVC)*. 2017.
38. A. Haque, A. Alahi, M. Guo, S. Yeung, Z. Luo, A. Rege, A. Singh, J. Jopling, L. Downing, W. Beninati, T. Platchek, A. Milstein, & L. Fei-Fei. *International Conference on Machine Learning and Healthcare (MLHC)*. 2017
39. D.-A. Huang, J. J. Lim, L. Fei-Fei, and J.C. Niebles. Unsupervised Visual-Linguistic Reference Resolution in Instructional Videos. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2017.
40. D. Xu, Y. Zhu, C. B. Choy, & L. Fei-Fei. Scene Graph Generation by Iterative Message Passing. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2017.
41. Y. Zhu, J. J. Lim, & L. Fei-Fei. Knowledge Acquisition for Visual Question Answering via Iterative Querying. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2017.
42. S. Yeung, V. Ramanathan, O. Russakovsky, L. Shen, G. Mori, & L. Fei-Fei. Learning to learn from noisy web videos. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2017.
43. J. Johnson, B. Hariharan, L. van der Maaten, L. Fei-Fei, C.L. Zitnick, R. Girshick. CLEVR: A Diagnostic Dataset for Compositional Language and Elementary Visual Reasoning. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2017.
44. J. Krause, J. Johnson, R. Krishna, & L. Fei-Fei. A Hierarchical Approach for Generating Descriptive Image Paragraphs. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2017.
45. Z. Luo, B. Peng, D.-A. Huang, A. Alahi, & L. Fei-Fei. Unsupervised Learning of Long-Term Motion Dynamics for Videos. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2017.
46. K. Nakamura, S. Yeung, A. Alahi, & L. Fei-Fei. Jointly Learning Energy Expenditures and Activities using Egocentric Multimodal Signals. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*. 2017.
47. A. Alahi, V. Ramanathan, & L. Fei-Fei. Tracking Millions of Humans in Crowded Space. Book chapter in *Group and Crowd Behavior for Computer Vision*. 2017
48. A. Alahi, V. Ramanathan, K. Goel, A. Robicquet, A. A. Sadeghian, L. Fei-Fei, & S. Savarese. Learning to Predict Human Behaviour in Crowded Scenes. Book chapter in *Group and Crowd Behavior for Computer Vision*. 2017
49. T. Gebru, J. Krause, Y. Wang, D. Chen, J. Deng, & L. Fei-Fei. Fine-Grained Car Detection for Visual Census Estimation. *AAAI Conference on Artificial Intelligence (AAAI)*. 2017
50. T. Gebru, J. Krause, J. Deng, & L. Fei-Fei. Scalable Annotation of Fine-Grained Objects Without Experts. *ACM Conference on Human Factors in Computing and Systems (CHI)*. 2017.
51. A. Alahi, J. Wilson, L. Fei-Fei, & S. Savarese. Unsupervised Camera Localization in Crowded Spaces. *IEEE International Conference on Robotics and Automation (ICRA)*. 2017
52. Y. Zhu, R. Mottaghi, E. Kolve, J. J. Lim, A. Gupta, L. Fei-Fei, & A. Farhadi. Target-driven Visual Navigation in Indoor Scenes using Deep Reinforcement Learning. *IEEE International Conference on Robotics and Automation (ICRA)*. 2017
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- 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)
- Reviewer:
 - 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)

- Journal of Machine Learning Research (JMLR)
- Nature
- Cognitive Psychology
- Journal of Vision (JoV)
- NeuroImage
- Journal of Experimental Psychology (JEP)
- ACM Transaction on Applied Perception (TAP)
- Cerebral Cortex

ADVISORY BOARD MEMBER OF ACADEMIC PROGRAMS OR INSTITUTIONS

- Scientific Advisory Board (Fachbeirat), Max Planck Institute of Informatics in Saarbrücken, Germany, 2017 - 2020
- External Advisory Committee, Center for Brains, Minds and Machines, MIT, 2017 - 2019

TEACHING

STANFORD UNIVERSITY

CS231n: Convolutional Neural Network for Visual Recognition

- Spring 2017, Enrollment: 770
- Winter 2016, Enrollment: 320
- Winter 2015, Enrollment: 156

CS131: Computer Vision: Foundations and Applications

- Fall 2016, Enrollment: 100
- Fall 2015, Enrollment: 80
- Fall 2014, Enrollment: 49
- 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

STUDENTS / ADVISING

POSTDOCTORAL SCHOLARS

2016. 08 – 2018.08	Animesh Garg (Ph.D. from U. of California Berkeley) Placement: Research Scientist, NVidia; Assistant Professor, U. Toronto (deferred)
2016. 08 – 2017.05	Judy Hoffman (Ph.D. from U. of California Berkeley) Placement: Postdoc, U.C. Berkeley
2015. 07 – 2016.12	Joseph Lim (Ph.D. from MIT) Placement: Assistant Professor, University of Southern California
2014.10 – 2016	Lamberto Ballan (Ph.D. from U. of Florence, Italy) Placement: Research scientist, University of Florence, Italy
2013.01 – 2017.08	Guido Pusiol (Ph.D. from INRIA) Placement: Startup
2011.06 – 2017.06	Michelle Greene (Ph.D. from MIT) Placement: Assistant Professor, Bain College
2012.09 – 2017.08	Alexandre Alahi (Ph.D. from EPFL) Placement: Assistant Professor, EPFL
2013.01 – 2015	Armand Joulin (Ph.D. from Ecole Polytechnique) Placement: Research Scientist, Facebook Research Lab
2013.07 – 2014.09	Alireza Fathi (Ph.D. from Georgia Tech) Placement: Research Scientist, Apple, Inc.
2012.06 – 2013.10	Jia Deng (Ph.D. from Princeton) Placement: Assistant Professor, U. Michigan Ann Arbor
2006 – 2010	Dirk B. Walther (Ph.D. from California Institute of Technology), UIUC Placement: Assistant Professor, U. of Toronto, Canada

PH.D. STUDENTS

2018 – present	Shyamal Buch (CS, Stanford)
2018 – present	Alan (Zelun) Luo (CS, Stanford)
2016 -- present	Jim Fan (CS, Stanford)
2016 -- present	Danfei Xu (CS, Stanford; co-advised by Silvio Savarese)
2016 – present	Albert Haque (CS, Stanford)
2016 – present	Ranjay Krishna (CS, Stanford)
2015 – present	De-An Huang (CS, Stanford)
2015 – present	Yuke Zhu (CS, Stanford)
2013 – 2018	Justin Johnson (CS, Stanford) Dissertation: “ <i>Compositional Visual Intelligence</i> ” Placement: Assistant Professor, U. Michigan; Research Scientist, Facebook
2013 – 2018	Serena Yeung (EE, Stanford)

Dissertation: *“Visual Understanding of Human Activity: Towards Ambient Intelligence in AI-assisted Hospitals”*
 Placement: Assistant Professor, Stanford University
 2013 – 2017 Timnit Gebru (EE, Stanford)
 Dissertation: *“Visual Computational Sociology: Computer Vision Methods and Challenges”*
 Placement: Postdoc, Microsoft Research NY
 2012 – 2016 Andrej Karparthy (CS, Stanford)
 Dissertation: *“Connecting images with natural language”*
 Placement: Founding Research Scientist at OpenAI
 2012 – 2016 Vignesh Ramanathan (EE, Stanford)
 Dissertation: *“Human-centric video understanding with weak supervision”*
 Placement: Research Scientist at Facebook AI Research Lab (FAIR)
 2011 – 2016 Jon Krause (CS, Stanford)
 Dissertation: *“Fine-grained object recognition”*
 Placement: Research Scientist at Google Brain
 2010 – 2015 Kevin Tang (CS, Stanford)
 Dissertation: *“Visual learning with weakly labeled video.”*
 Placement: Research Scientist at Snapchat
 2009 – 2016 Marius Catalin Jordan (CS, Stanford)
 Dissertation: *“Uncovering the Neural Representation of Multiple Dimensions of Object Categorization in Human Visual Cortex.”*
 Placement: Postdoctoral Scholar at Princeton University
 2009 – 2015 Olga Russakovsky (CS, Stanford)
 Dissertation: *“Scaling Up Object Detection”*
 Placement: Postdoctoral Scholar at Carnegie Mellon University
 2009 – 2015 Chris Baldassano (CS, Stanford)
 Dissertation: *“Visual scene perception in the human brain: Connections to memory, categorization, and social cognition”*
 Placement: Postdoctoral Scholar at Princeton University
 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 – 2016 Yuke Zhu (CS, Stanford)

2014 – 2016	Placement: Ph.D. student at Stanford University Ranjay Krishna (CS, Stanford)
2014 – 2015	Placement: Ph.D. student at Stanford University Sean Ma (CS, Stanford)
2010 – 2011	Aditya Khosla (CS, Stanford)
2011 – 2013	Placement: Ph.D. student at MIT Yongwhan Lim (CS, Stanford)
2010 – 2011	Placement: Ph.D. student at MIT Vinayak Agarwal (CS, Stanford)
2010 – 2011	Rob Cosgrill (EE, Stanford)
2009 – 2010	Placement: VideoSurf, Inc. Georgios Georgiadis (CS, Stanford)
2010 – 2011	Placement: Ph.D. student at UCLA Dan Goodwin (EE, Stanford)
2009 – 2011	Placement: IDEO, Inc Yu Lou (CS, Stanford)
2010 – 2012	Placement: A9.com Sanjeev Satheesh (CS, Stanford)
2011 – 2012	Placement: Microsoft Jiahu Shi (CS, Stanford)
2010 – 2012	Ningxuan Wang (CS, Stanford)
2010 – 2012	Placement: Microsoft Haizi Yu (Statistics, Stanford)

UNDERGRADUATE STUDENTS

2014 – 2016	Emily Tang (CS, Stanford)
2014 – 2016	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)

ADDITIONAL INFORMATION

Languages: Mandarin, English