

# Kristen Grauman

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## EDUCATION

**Massachusetts Institute of Technology**, Cambridge, MA  
Ph.D. in Computer Science, EECS Dept., July 2006

**Massachusetts Institute of Technology**, Cambridge, MA  
S.M. in Computer Science, EECS Dept., June 2003

**Boston College**, Chestnut Hill, MA  
B.A. in Computer Science, *summa cum laude*, May 2001

## RESEARCH INTERESTS

Computer vision and machine learning; object and activity recognition, image and video search, large-scale retrieval, unsupervised visual discovery, active learning, first-person computer vision, interactive machine learning, image and video segmentation, vision and language, video summarization.

## APPOINTMENTS

<b>Professor</b> University of Texas at Austin, Department of Computer Science	Sept 2017- Austin, TX
<b>Associate Professor</b> University of Texas at Austin, Department of Computer Science	Sept 2012-August 2017 Austin, TX
<b>Clare Boothe Luce Assistant Professor</b> University of Texas at Austin, Department of Computer Science	Jan 2007-August 2012 Austin, TX
<b>Postdoctoral Associate</b> MIT Computer Science and Artificial Intelligence Laboratory	Fall 2006 Cambridge, MA
<b>Research Assistant</b> MIT Computer Science and Artificial Intelligence Laboratory	2001-2006 Cambridge, MA
<b>Computer Science Instructor</b> MIT Women's Technology Program	Summer 2005 Cambridge, MA
<b>Visiting Research Fellow</b> Lawrence Berkeley National Laboratory, Imaging and Informatics Group	Summer 2003 Berkeley, CA
<b>Research Intern</b> Intel Corporation, Microprocessor Research Labs, Vision and Graphics Group	Summer 2000 Santa Clara, CA
<b>Research Assistant</b> Boston College Computer Vision Group	1999-2001 Chestnut Hill, MA

## AWARDS AND HONORS

- Helmholtz Prize, computer vision test of time award, 2017
- Academy of Distinguished Teachers, UT Austin, 2017
- Best Paper Honorable Mention, ACM Conf. on Human Factors in Computing Sys. (CHI), 2017  
*For the paper, "CrowdVerge: Predicting If People Will Agree on the Answer to a Visual Question", with D. Gurari*
- Best Application Paper Award, Asian Conference on Computer Vision (ACCV), 2016  
*For the paper "Pano2Vid: Automatic Cinematography for Watching 360° Videos", with Y-C. Su and D. Jayaraman*
- Outstanding Reviewer, Conference on Computer Vision and Pattern Recognition (CVPR), 2016
- Presidential Early Career Award for Scientists and Engineers (PECASE), 2014
- Computers and Thought Award, International Joint Conferences on Artificial Intelligence, 2013
- Pattern Analysis and Machine Intelligence (PAMI) Young Researcher Award, 2013
- Alfred P. Sloan Research Fellow, 2012
- Office of Naval Research Young Investigator Research Award (ONR YIP), 2012
- Regents' Outstanding Teaching Award, University of Texas System, 2012
- Marr Prize, Best Paper Award, International Conference on Computer Vision (ICCV), 2011  
*For the paper "Relative Attributes", with D. Parikh.*
- Society for Teaching Excellence, University of Texas at Austin, 2011-present
- AI's Ten to Watch, *IEEE Intelligent Systems*, 2011
- Best Poster Award, Workshop on Fine-Grained Visual Categorization, 2011  
*For the work "Interactive Discovery of Task-Specific Nameable Attributes", with D. Parikh*
- Computer Science Study Group, Defense Advanced Research Projects Agency (CSSG), 2010
- Invited research article for the Communications of the ACM (CACM), 2010  
*Publication for computing and IT professionals with a readership over 95,000*
- National Science Foundation Faculty Early Career Development Award (NSF CAREER), 2008
- Microsoft Research New Faculty Fellow, 2008
- Best Student Paper Award, Computer Vision and Pattern Recognition (CVPR), 2008  
*For the paper "Fast Image Search for Learned Metrics", with P. Jain and B. Kulis*
- Frederick A. Howes Scholar Award in Computational Science, Krell Institute, 2007
- Clare Boothe Luce Assistant Professorship, Henry Luce Foundation, 2007-2011
- Computational Science Graduate Fellowship, Department of Energy, 2001-2005
- Morris Joseph Levin Award, MIT Electrical Engineering and Computer Science Dept., 2003
- Boston College Presidential Scholar, 1997-2001
- Alfred McGuinn Award, for achievement in sciences and humanities, Boston College, 2001
- Accenture Award, Boston College Computer Science Departmental Award, 2001

## INVITED TALKS

- Stanford University  
Stanford Center for Image Systems Engineering Seminar, Jan 2018
- Amazon AWS re:Invent  
Deep Learning Summit, Nov 2017
- Egocentric Perception, Interaction, and Computing  
International Conference on Computer Vision (ICCV) Workshop, Oct 2017
- Learning to See from 3D Data  
International Conference on Computer Vision (ICCV) Workshop, Oct 2017
- Dagstuhl Workshop on Deep Learning and Computer Vision  
Schloss Dagstuhl, Germany, Sept 2017
- IBM Research  
Distinguished Talk, August 2017
- Amazon Lab126  
Computer Vision and Machine Learning Group, August 2017
- Frontiers of Video Technology Workshop  
Adobe Research, July 2017
- ETH Zurich  
Computer Vision Laboratory, May 2017
- Simons Institute for the Theory of Computing  
Representation Learning Workshop, Mar 2017
- AAAI Spring Symposium Series, Stanford University  
Science of Intelligence: Computational Principles of Natural and Artif. Intelligence, Mar 2017
- 31st AAAI Conference on Artificial Intelligence  
Keynote, San Francisco, Feb 2017
- 12th International Symposium on Visual Computing  
Keynote, Las Vegas, Dec 2016
- Human Computation for Image and Video Analysis Workshop  
Keynote, Austin, Nov 2016
- University of Alabama  
Distinguished Lecture, Dept of Computer and Information Sciences, Birmingham, Oct 2016
- U.S. Frontiers of Engineering Symposium  
National Academy of Engineering (NAE), Irvine, CA, Sept 2016
- Technion Computer Engineering Center  
Sixth Annual Henry Taub TCE Conference: 3D Visual Computing: Graphics, Geometry & Imaging, Haifa, May 2016
- Fourth Workshop on Egocentric (First-Person) Vision  
Keynote, Computer Vision and Pattern Recognition (CVPR) Workshop, Las Vegas, June 2016
- Moving Cameras Meet Video Surveillance: From Body-Borne Cameras to Drones  
Keynote, Computer Vision and Pattern Recognition (CVPR) Workshop, Las Vegas, June 2016
- First-person Visual Sensing: Theory, Models, and Application  
Computer Vision and Pattern Recognition (CVPR) Tutorial, Las Vegas, June 2016
- SUNw: Scene Understanding Workshop  
Computer Vision and Pattern Recognition (CVPR) Workshop, Las Vegas, June 2016

- WiCV Women in Computer Vision  
Keynote, Computer Vision and Pattern Recognition (CVPR) Workshop, Las Vegas, June 2016
- Toyota Technological Institute (TTI)  
TTIC Colloquium, Chicago, IL, April 2016
- ONR Workshop on Structured Learning for Scene Understanding  
Stanford Computational Vision and Geometry Lab, Stanford University, April 2016
- Future Directions Workshop on Visual Common Sense  
Department of Defense, Washington DC, November 2015
- British Machine Vision Conference (BMVC), 26th annual conference  
Keynote, Swansea, U.K., Sept 2015
- International Conference on Image Analysis and Processing (ICIAP), 18th annual conference  
Keynote, Genoa, Italy, Sept 2015
- University College London (UCL)  
Gatsby Computational Neuroscience Unit External Seminar, July 2015
- Workshop on Language and Vision  
Computer Vision and Pattern Recognition (CVPR) Workshop, Boston, MA, June 2015
- Workshop on Large Scale Visual Commerce  
Computer Vision and Pattern Recognition (CVPR) Workshop, Boston, MA, June 2015
- Conference on Human Computation and Crowdsourcing (HCOMP)  
Keynote, Pittsburgh, PA, Nov 2014
- Princeton University  
Department of Computer Science Colloquium, Princeton, NJ, Dec 2014
- International Workshop on Computer Vision (IWCV)  
Session on First Person Vision, Alghero, Italy, May 2014
- International Workshop on Visual Domain Adaptation and Dataset Bias  
International Computer Vision Conference (ICCV) Workshop, Sydney, Australia, Dec 2013
- Workshop on Wearable Computer Vision Systems  
International Computer Vision Conference (ICCV) Workshop, Sydney, Australia, Dec 2013
- eBay Research Labs  
Computer Vision Group, San Jose, CA, January 2014
- IBM T. J. Watson Research  
Exploratory Computer Vision Group, New York, October 2013
- 23rd International Joint Conference on Artificial Intelligence (IJCAI)  
Computers and Thought Award Talk, Beijing, China, August 2013
- Microsoft Faculty Summit  
Session on Visual Recognition, Redmond, WA, July 2013
- École Normale Supérieure  
ENS/INRIA Visual Recognition and Machine Learning Summer School, Paris, July 2013
- Workshop on Visual Analysis Beyond Semantics Keynote  
Computer Vision and Pattern Recognition (CVPR) Workshop, Portland, OR, June 2013
- University of Michigan  
AI Seminar, April 2013
- University of Houston  
Computer Science Seminar, April 2013

- Georgia Institute of Technology  
Robotics and Intelligent Machines Seminar Series, March 2013
- Embedded Vision Alliance Keynote  
Austin, TX, December 2012
- Parts and Attributes Workshop Keynote  
European Conference on Computer Vision (ECCV) Workshop, Firenze, Italy, October 2012
- IEEE International Conference on Multimedia and Expo (ICME) Plenary  
Thirteenth Annual Conference, Melbourne, Australia, July 2012
- Perceptual Organization in Computer Vision Workshop  
Computer Vision and Pattern Recognition (CVPR) Workshop, Providence, RI, June 2012
- Rice University  
Digital Signal Processing group, Houston, TX, May 2012
- University of Pennsylvania  
GRASP Lab Seminar Series, Philadelphia, PA, April 2012
- Bryn Mawr University  
Fantastic Lectures in Computer Science, Bryn Mawr, PA, April 2012
- University of Illinois at Urbana-Champaign  
Artificial Intelligence Colloquium, Urbana, December 2011
- Johns Hopkins University  
Center of Imaging Science Seminar, Baltimore, October 2011
- University of Texas at Austin  
Division of Statistics and Scientific Computation Statistics Seminar, Austin, October 2011
- MIT Lincoln Laboratory  
Imaging Science Initiative Seminar, Lexington, MA, September 2011
- Large Scale Learning for Vision Workshop  
Computer Vision and Pattern Recognition (CVPR) Workshop, Colorado Springs, June 2011
- Texas State University  
Computer Science Seminar, July 2011
- Conference on Autonomous Agents and Multiagent Systems, Plenary  
Tenth Annual Conference (AAMAS), Taipei, Taiwan, May 2011
- Carnegie Mellon University  
Robotics Institute Departmental Seminar, Pittsburgh, March 2011
- California Institute of Technology  
Caltech Information Science and Technology Seminar, Pasadena, November 2010
- University of California at San Diego  
Vision and Machine Learning Seminar, September 2010
- Interactive Query Refinement Workshop  
Columbia University and DARPA/ARO, New York City, September 2010
- Students & Technology in Academia, Research & Service Alliance Celebration  
CRA-W Keynote Speaker, Orlando, August 2010
- Microsoft Research  
Interactive Visual Media Group Seminar, Redmond, August 2010
- Women in Machine Learning Workshop  
Neural Information Processing Systems (NIPS) Workshop, Vancouver, December 2009

- IEEE MetroCon  
Annual engineering conference, Dallas, August 2009
- Visual and Contextual Learning from Annotated Images and Videos Workshop  
Computer Vision and Pattern Recognition (CVPR) Workshop, Miami, June 2009
- Massachusetts Institute of Technology  
MIT EECS/CSAIL Special Departmental Seminar, Cambridge, March 2009
- University of California at Berkeley  
Computer Vision Seminar, Berkeley, February 2009
- Columbia University  
Digital Video and Multimedia Lab Seminar, New York City, January 2009
- University of Maryland  
Computer Vision Lab Seminar, August 2008
- International Workshop on Object Recognition  
Lake Como, Italy, May 2008
- IBM Austin Research Laboratory  
Cell and Vision/UI Workshop, Austin, March 2008
- Institute for Pure and Applied Mathematics (IPAM)  
Workshop on Numerical Tools and Fast Algorithms for Massive Data Mining, Search Engines,  
and Applications, Los Angeles, October 2007
- Department of Energy Computational Science Conference  
Washington, DC, June 2007
- University of Texas at Austin  
Computer Science Departmental Colloquium, Austin, April 2006
- University of California at San Diego  
Electrical and Computer Engineering Departmental Seminar, La Jolla, April 2006
- University of Rochester  
Computer Science Departmental Colloquium, Rochester, April 2006
- Microsoft Research  
Interactive Visual Media Group Seminar, Redmond, April 2006
- Princeton University  
Computer Science Departmental Colloquium, Princeton, March 2006
- Duke University  
Computer Science Departmental Colloquium, Durham, March 2006
- Toyota Technological Institute at Chicago  
TTI-C Departmental Seminar, Chicago, March 2006
- Discovery of Object Categories Workshop  
Neural Information Processing Systems (NIPS) Workshop, Vancouver, December 2005
- Kernel Methods and Structured Domains Workshop  
Neural Information Processing Systems (NIPS) Workshop, Vancouver, December 2005

## PROFESSIONAL SERVICE ACTIVITY

<b>Program Chair</b>	Computer Vision and Pattern Recognition (CVPR) 2015 Neural Information Processing Systems (NIPS) 2018
<b>Associate Editor in Chief</b>	IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI), 2016-
<b>Editorial Board</b>	International Journal of Computer Vision (IJCV) 2010-
<b>Co-Editor</b>	International Journal of Computer Vision (IJCV) Special Issue, Active & Interactive Methods in Computer Vision, 2013 Pattern Analysis and Machine Intelligence (PAMI) Special Issue, Best Papers of CVPR 2015, 2016
<b>Area Chair</b>	International Conference on Computer Vision (ICCV) '09, '11, '13, '17 Computer Vision and Pattern Recognition (CVPR) 2009, 2013 European Conference on Computer Vision (ECCV) '12, '14, '16, '18 Asian Conference on Computer Vision (ACCV) 2012 Neural Information Processing Systems (NIPS) 2012, 2017 International Conference on Machine Learning (ICML) 2015, 2016
<b>Chair</b>	Tutorials and Short Courses, CVPR 2014 Doctoral Consortium, CVPR 2009, 2010
<b>Member</b>	Information Science and Technology (ISAT) Study Group, 2013-16
<b>Organizing Committee</b>	IPAM workshop on Multimedia Search, 2012 ECCV workshop on Human-Machine Communication for Visual Recognition and Search, 2014 ECCV workshop on Storytelling with Images and Videos, 2014, 2016 ECCV workshop on Action and Anticipation for Visual Learning, 2016 ISAT workshop on Towards the Bionic Eye, 2016 Simons Institute workshop on Representational Learning, 2017
<b>Conference Program Committees</b>	Comp Vision & Pattern Recognition (CVPR), 2006-07, 2010-12, 2016 AAAI Conference on Artificial Intelligence, 2014 International Conference on Computer Vision (ICCV), 2007, 2015 European Conference on Computer Vision (ECCV), 2008, 2010 Neural Information Processing Systems (NIPS), 2005, 2007-2010, 2015 SenseCam and Pervasive Imaging Conference, 2013 Assoc. Adv. of Artificial Intelligence (AAAI), AI and the Web, 2011
<b>Journal Reviewer</b>	Trans. on Pattern Analysis and Machine Intelligence (PAMI), 2006- International Journal of Computer Vision (IJCV), 2006- ACM Computing Surveys, Communications of the ACM (CACM)
<b>Panelist</b>	National Science Foundation (NSF)
<b>Book Reviewer</b>	MIT Press

<b>Instructor/ Co-Instructor</b>	Tutorial on Attributes, in conjunction with Conf on Computer Vision and Pattern Recognition (CVPR), 2013 Machine Learning Summer School, UT Austin, 2015 Course on Visual Recognition and Image Search, for the University of Trento, Info. and Comm. Tech. Doctoral School, 2011 Lecture on Image Matching and Visual Search, for the International Computer Vision Summer School, Sicily, 2010 Tutorial on Visual Recognition, for the Assoc. for the Advancement of Artificial Intelligence (AAAI), 2008
<b>Workshop Program Committees</b>	Eurographics Wkshop on Intelligent Cinematography and Editing, 2017 CVPR Wkshop on Deep Learning Methods for Robotics Perception, 2017 ICCV Wkshop on Closing the Loop between Language and Vision, 2015 ICCV Wkshop on Assistive Computer Vision and Robotics (ACVR), 2015 EMNLP Wkshop on Vision and Language (VL), 2015 ICME Wkshop on Wearable and Ego-vision Sys. for Augmented Exp, 2015 CVPR Wkshop on Big Data Meets Computer Vision, 2015 ECCV Wkshop on Assistive Computer Vision and Robotics (ACVR), 2014 CVPR Wkshop on Scene Understanding (SUNw), 2014 CVPR Wkshop on Large Scale Visual Recognition and Retrieval, 2014 ICCV Wkshop on Vis. Domain Adaptation and Dataset Bias (VisDA), 2013 ICCV Wkshop on Wearable Computer Vision Systems, 2013 NAACL Wkshop on Vision and Natural Language Processing (WVL), 2013 CVPR Wkshop on Fine Grained Visual Categorization (FGVC), 2013 ECCV Wkshop on Action Recognition and Pose Estimation, 2012 NIPS Wkshop on Computational Social Science (CSS), 2011 ICCV Wkshop on 3D Representation for Recognition (3dRR), 2011 ICCV Wkshop on Human Interaction in Computer Vision (HICV), 11 AAAI Wkshop on Human Computation (HCOMP), 2011, 2012 CVPR Wkshop on Fine-Grained Category Recognition (FGVC), 2011 CVPR Wkshop on Computer Vision with Humans in the Loop, 2010 ECCV Wkshop on Parts and Attributes (PnA), 2010 CVPR Wkshop on Visual Scene Understanding (ViSU), 2009 IEEE Wkshop on Motion and Video Computing (WMVC), 2007

## PUBLICATIONS

### Books

1. K. Grauman and B. Leibe. *Visual Object Recognition*. Synthesis Lectures on Artificial Intelligence and Machine Learning. Morgan and Claypool Publishers, April 2011, Vol. 5, No. 2, Pages 1-181.
2. A. Kovashka, O. Russakovsky, L. Fei-Fei, and K. Grauman. Crowdsourcing in Computer Vision. *Foundations and Trends in Computer Graphics and Vision*, Vol. 10, Issue 3, Nov 2016.

### Book chapters

1. A. Yu and K. Grauman. Fine-Grained Comparisons with Attributes. Invited chapter, in *Visual Attributes*. R. Feris, C. Lampert, and D. Parikh, Editors. Springer. 2017.
2. C-Y. Chen, D. Jayaraman, F. Sha, and K. Grauman. Divide, Share, and Conquer: Multi-task Attribute Learning with Selective Sharing. Invited chapter, in *Visual Attributes*. R. Feris, C.



Lampert, and D. Parikh, Editors. Springer. 2017.

3. A. Kovashka and K. Grauman. Attributes for Image Retrieval. Invited chapter, in *Visual Attributes*. R. Feris, C. Lampert, and D. Parikh, Editors. Springer. 2017.
4. B. Xiong and K. Grauman. Intentional Photos from an Unintentional Photographer: Detecting Snap Points in Egocentric Video with a Web Photo Prior. Invited chapter, in *Mobile Cloud Visual Media Computing*. G. Hua and X-S. Hua, Editors. Springer. pp. 85-111, November 2015.
5. K. Grauman and R. Fergus. Learning Binary Hash Codes for Large-Scale Image Search. Invited chapter, in *Machine Learning for Computer Vision*, Studies in Computational Intelligence Series. R. Cipolla, S. Battiato, and G. Farinella, Editors. Springer. Vol. 411, pp. 49-87, 2013.
6. S. Vijayanarasimhan and K. Grauman. Minimizing Annotation Costs in Visual Category Learning. Invited chapter, in *Cost-Sensitive Machine Learning*, B. Krishnapuram, S. Yu, and B. Rao, Editors. Chapman and Hall/CRC, December 2011.
7. K. Grauman and T. Darrell. Contour Matching Using Approximate Earth Mover's Distance, chapter in *Nearest Neighbors in Learning and Vision: Theory and Practice*, T. Darrell, P. Indyk, G. Shakhnarovich, Editors. MIT Press, 2005.

#### Journal articles

1. D. Gurari, K. He, B. Xiong, J. Zhang, M. Sameki, S. Jain, S. Sclaroff, M. Betke, and K. Grauman. Predicting Foreground Object Ambiguity and Efficiently Crowdsourcing the Segmentation(s). To appear, *International Journal of Computer Vision (IJCV)*, 2018.
2. A. Furnari, S. Battiato, K. Grauman, and G. Maria Farinella. Next-active-object Prediction from Egocentric Videos. *Journal of Visual Communication and Image Representation*. Vol. 49, pp. 401-411, November 2017.
3. D. Jayaraman and K. Grauman. Learning Image Representations Tied to Egomotion from Unlabeled Video. *International Journal of Computer Vision (IJCV)*, Mar 2017. [**Invited article for best papers of ICCV 2015**]
4. C-Y. Chen and K. Grauman. Subjects and Their Objects: Localizing Interactees for a Person-Centric View of Importance. *International Journal of Computer Vision (IJCV)*, Oct 2016.
5. C-Y. Chen and K. Grauman. Efficient Activity Detection in Untrimmed Video with Max-Subgraph Search. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, April 2016.
6. Y. J. Lee and K. Grauman. Predicting Important Objects for Egocentric Video Summarization. *International Journal of Computer Vision (IJCV)*, Volume 114, Issue 1, pp. 38-55. August 2015.
7. J. Kim and K. Grauman. Boundary Preserving Dense Local Regions. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, Volume 37, No. 5, pp. 931-943, May 2015.
8. A. Kovashka and K. Grauman. Discovering Attribute Shades of Meaning with the Crowd. *International Journal of Computer Vision (IJCV)*, Volume 114, Issue 1, pp 56-73. August 2015.

9. A. Kovashka, D. Parikh, and K. Grauman. WhittleSearch: Interactive Image Search with Relative Attribute Feedback. *International Journal of Computer Vision (IJCV)*, Volume 115, Issue 2, pp 185-210, November 2015.
10. S. Vijayanarasimhan and K. Grauman. Large-Scale Live Active Learning: Training Object Detectors with Crawled Data and Crowds. *International Journal of Computer Vision (IJCV)*, Volume 108, Issue 1-2, pp. 97-114, May 2014.
11. B. Gong, K. Grauman, and F. Sha. Learning Kernels for Unsupervised Domain Adaptation with Applications to Visual Object Recognition. *International Journal of Computer Vision (IJCV)*, Volume 109, Issue 1-2, pp. 3-27, August 2014.
12. S. Vijayanarasimhan, P. Jain, and K. Grauman. Hashing Hyperplane Queries to Near Points with Applications to Large-Scale Active Learning. *Transactions on Pattern Analysis and Machine Intelligence (PAMI)*, Vol. 36, No. 2, pp. 276-288, February 2014.
13. Y. J. Lee and K. Grauman. Object-Graphs for Context-Aware Visual Category Discovery. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*. Vol. 34, No. 2, pp. 346-358, February 2012.
14. B. Kulis and K. Grauman. Kernelized Locality-Sensitive Hashing. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*. Vol. 34, No. 6, pp. 1092-1104, June 2012.
15. S. J. Hwang and K. Grauman. Reading Between the Lines: Object Localization Using Implicit Cues from Image Tags. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*. Vol. 34, No. 6, pp. 1145-1158, June 2012.
16. S. J. Hwang and K. Grauman. Learning the Relative Importance of Objects from Tagged Images for Retrieval and Cross-Modal Search. *International Journal of Computer Vision (IJCV)*. Vol. 100, Issue 2, pp. 134-153, November 2012. [**Invited article**]
17. S. Vijayanarasimhan and K. Grauman. Cost-Sensitive Active Visual Category Learning. *International Journal of Computer Vision (IJCV)*, Vol. 91, No. 1, pp. 24-44, July 2010.
18. K. Grauman. Efficiently Searching for Similar Images. *Communications of the ACM (CACM)*, Vol. 53 No. 6, pp. 84-94, June 2010. [**Invited article**]
19. B. Kulis, P. Jain, and K. Grauman. Fast Similarity Search for Learned Metrics. *IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI)*, Vol. 31, No. 12, pp. 2143-2157, Dec 2009. [**Invited article for best papers of CVPR 2008**]
20. Y. J. Lee and K. Grauman. Foreground Focus: Unsupervised Learning from Partially Matching Images. *International Journal of Computer Vision (IJCV)*, Vol. 85, No. 2, pp. 143-166, May 2009.
21. M. S. Ryoo, K. Grauman, and J. K. Aggarwal. A Task-Driven Intelligent Workspace System to Provide Guidance Feedback. *Computer Vision and Image Understanding (CVIU)*, Vol. 114, No. 5, pp. 520-534, May 2010.
22. A. Kapoor, K. Grauman, R. Urtasun, and T. Darrell. Gaussian Processes for Object Categorization. *International Journal of Computer Vision (IJCV)*, Vol. 88, No. 2, pp. 169-188, July 2009.
23. K. Grauman and T. Darrell. The Pyramid Match Kernel: Efficient Learning with Sets of Features. *Journal of Machine Learning Research (JMLR)*, No. 8, pp. 725-760, April 2007.

24. K. Grauman, M. Betke, J. Lombardi, J. Gips, and G. Bradski. Communication via Eye Blinks and Eyebrow Raises: Video-Based Human-Computer Interfaces. *Universal Access in the Information Society*, Springer-Verlag Heidelberg, Vol. 2, No. 4, pp. 359–373, November 2003.

**Peer-reviewed conference papers (acceptance rates typically ~ 3%-25%)**

1. Y-C. Su and K. Grauman. Learning Spherical Convolution for Fast Features from 360° Imagery. In *Advances in Neural Information Processing Systems* (NIPS), Long Beach, CA, Dec 2017.
2. A. Yu and K. Grauman. Semantic Jitter: Dense Supervision for Visual Comparisons via Synthetic Images. In *Proceedings of the International Conference on Computer Vision* (ICCV), Venice, Italy, Oct 2017.
3. Z. Al-Halah, R. Stiefelhagen, and K. Grauman. Fashion Forward: Forecasting Visual Style in Fashion. In *Proceedings of the International Conference on Computer Vision* (ICCV), Venice, Italy, Oct 2017.
4. W-L. Hsiao and K. Grauman. Learning the Latent “Look”: Unsupervised Discovery of a Style-Coherent Embedding from Fashion Images. In *Proceedings of the International Conference on Computer Vision* (ICCV), Venice, Italy, Oct 2017.
5. R. Gao and K. Grauman. On-Demand Learning for Deep Image Restoration. In *Proceedings of the International Conference on Computer Vision* (ICCV), Venice, Italy, Oct 2017.
6. H. Jiang and K. Grauman. Seeing Invisible Poses: Estimating 3D Body Pose from Egocentric Video. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Honolulu, July 2017. (**oral spotlight**, 5% acceptance rate)
7. H. Jiang and K. Grauman. Detangling People: Individuating Multiple Close People and Their Body Parts via Region Assembly. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Honolulu, July 2017. (**oral presentation**, 3% acceptance rate)
8. S. Jain, B. Xiong, and K. Grauman. FusionSeg: Learning to Combine Motion and Appearance for Fully Automatic Segmentation of Generic Objects in Video. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Honolulu, July 2017.
9. Y-C. Su and K. Grauman. Making 360 Video Watchable in 2D: Learning Videography for Click Free Viewing. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Honolulu, July 2017. (**oral spotlight**, 5% acceptance rate)
10. D. Gurari and K. Grauman. CrowdVerge: Predicting If People Will Agree on the Answer to a Visual Question. *ACM Conference on Human Factors in Computing Systems* (CHI), Denver, CO, May 2017. [**Best Paper Honorable Mention**]
11. Y-C. Su, D. Jayaraman, and K. Grauman. Pano2Vid: Automatic Cinematography for Watching 360° Videos. In *Proceedings of the Asian Conference on Computer Vision* (ACCV), Taipei, November 2016. (**oral**) [**Best Application Paper Award**]
12. R. Gao, D. Jayaraman, and K. Grauman. Object-Centric Representation Learning from Unlabeled Videos. In *Proceedings of the Asian Conference on Computer Vision* (ACCV), Taipei, November 2016.

13. D. Jayaraman and K. Grauman. Look-Ahead Before You Leap: End-to-End Active Recognition by Forecasting the Effect of Motion. In *Proceedings of the European Conference on Computer Vision (ECCV)*, Amsterdam, October 2016. (**oral**)
14. Y-C. Su and K. Grauman. Detecting Engagement in Egocentric Video. In *Proceedings of the European Conference on Computer Vision (ECCV)*, Amsterdam, October 2016. (**oral**)
15. Y-C. Su and K. Grauman. Leaving Some Stones Unturned: Dynamic Feature Prioritization for Activity Detection in Streaming Video. In *Proceedings of the European Conference on Computer Vision (ECCV)*, Amsterdam, October 2016.
16. K. Zhang, W-L. Chao, F. Sha, and K. Grauman. Video Summarization with Long Short-term Memory. In *Proceedings of the European Conference on Computer Vision (ECCV)*, Amsterdam, October 2016.
17. S. D. Jain and K. Grauman. Click Carving: Segmenting Objects in Video with Point Clicks. In *Proceedings of the Fourth AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*, Austin, TX, October 2016.
18. D. Jayaraman and K. Grauman. Slow and Steady Feature Analysis: Higher Order Temporal Coherence in Video. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, June 2016. (**oral spotlight**, 9.7% acceptance rate)
19. K. Zhang, W-L. Chao, F. Sha, and K. Grauman. Summary Transfer: Exemplar-based Subset Selection for Video Summarization. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, June 2016.
20. S. Jain and K. Grauman. Active Image Segmentation Propagation. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, June 2016.
21. D. Gurari, S. Jain, M. Betke, and K. Grauman. Pull the Plug? Predicting If Computers or Humans Should Segment Images. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, June 2016.
22. B. Xiong and K. Grauman. Text Detection in Stores Using a Repetition Prior. In *Proceedings of the IEEE Winter Conference on Computer Vision (WACV)*. Lake Placid, NY, March 2016.
23. D. Jayaraman and K. Grauman. Learning Image Representations Tied to Ego-Motion. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Santiago, Chile, December 2015. (**oral presentation**, ~4% acceptance rate)
24. A. Yu and K. Grauman. Just Noticeable Differences in Visual Attributes. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Santiago, Chile, December 2015.
25. W-L. Chao, B. Gong, K. Grauman, and F. Sha. Large-Margin Determinantal Point Processes. In *Proceedings of the Conference on Uncertainty in Artificial Intelligence (UAI)*, Amsterdam, Netherlands, July 2015.
26. A. Yu and K. Grauman. Predicting Useful Neighborhoods for Lazy Local Learning. In *Advances in Neural Information Processing Systems (NIPS)*, Montreal, Canada, Dec 2014.
27. D. Jayaraman and K. Grauman. Zero-shot Recognition with Unreliable Attributes. In *Advances in Neural Information Processing Systems (NIPS)*, Montreal, Canada, Dec 2014.

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29. C.-Y. Chen and K. Grauman. Predicting the Location of “Interactees” in Novel Human-Object Interactions. In *Proceedings of the Asian Conference on Computer Vision (ACCV)*, Singapore, Nov 2014.
30. S. Jain and K. Grauman. Which Image Pairs Will Cosegment Well? Predicting Partners for Cosegmentation. In *Proceedings of the Asian Conference on Computer Vision (ACCV)*, Singapore, Nov 2014.
31. B. Xiong and K. Grauman. Detecting Snap Points in Egocentric Video with a Web Photo Prior. In *Proceedings of the European Conference on Computer Vision (ECCV)*, Zurich, Switzerland, Sept 2014.
32. S. Jain and K. Grauman. Supervoxel-Consistent Foreground Propagation in Video. In *Proceedings of the European Conference on Computer Vision (ECCV)*, Zurich, Switzerland, Sept 2014.
33. D. Jayaraman, F. Sha, and K. Grauman. Decorrelating Semantic Visual Attributes by Resisting the Urge to Share. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Columbus, Ohio, June 2014. (**oral presentation**, 5.75% acceptance rate)
34. A. Yu and K. Grauman. Fine-Grained Visual Comparisons with Local Learning. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Columbus, Ohio, June 2014.
35. L. Liang and K. Grauman. Beyond Comparing Image Pairs: Setwise Active Learning for Relative Attributes. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Columbus, Ohio, June 2014.
36. C.-Y. Chen and K. Grauman. Inferring Unseen Views of People. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Columbus, Ohio, June 2014.
37. C.-Y. Chen and K. Grauman. Inferring Analogous Attributes. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Columbus, Ohio, June 2014.
38. A. Kovashka and K. Grauman. Attribute Pivots for Guiding Relevance Feedback in Image Search. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013.
39. S. Jain and K. Grauman. Predicting Sufficient Annotation Strength for Interactive Foreground Segmentation. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013.
40. A. Kovashka and K. Grauman. Attribute Adaptation for Personalized Image Search. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013.
41. S. Bandla and K. Grauman. Active Learning of an Action Detector from Untrimmed Videos. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013.

42. B. Gong, K. Grauman, and F. Sha. Reshaping Visual Datasets for Domain Adaptation. In *Advances in Neural Information Processing Systems (NIPS)*, Lake Tahoe, Nevada, December 2013.
43. D. Parikh and K. Grauman. Implied Feedback: Learning Nuances of User Behavior in Image Search. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Sydney, Australia, December 2013.
44. C.-Y. Chen and K. Grauman. Watching Unlabeled Video Helps Learn New Human Actions from Very Few Labeled Snapshots. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Portland, OR, June 2013. (**oral presentation**, 3.2% acceptance rate)
45. Z. Lu and K. Grauman. Story-Driven Summarization for Egocentric Video. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Portland, OR, June 2013.
46. J. Kim, C. Liu, F. Sha, and K. Grauman. Deformable Spatial Pyramid Matching for Fast Dense Correspondences. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Portland, OR, June 2013.
47. S. J. Hwang, K. Grauman, and F. Sha. Analogy-Preserving Semantic Embedding for Visual Object Categorization. In *Proceedings of the International Conference on Machine Learning (ICML)*, Atlanta, GA, June 2013.
48. B. Gong, K. Grauman, and F. Sha. Connecting the Dots with Landmarks: Discriminatively Learning Domain-Invariant Features for Unsupervised Domain Adaptation. In *Proceedings of the International Conference on Machine Learning (ICML)*, Atlanta, GA, June 2013. (**full oral presentation**)
49. T. McCandless and K. Grauman. Object-Centric Spatio-Temporal Pyramids for Egocentric Activity Recognition. In *Proceedings of the British Machine Vision Conference (BMVC)*, Bristol, UK, Sept 2013.
50. A. Luong, M. Gerbush, B. Waters, and K. Grauman. Reconstructing a Fragmented Face from an Attacked Secure Identification Protocol. In *IEEE Workshop on Applications of Computer Vision (WACV)*, Clearwater, FL, January 2013.
51. J. Kim and K. Grauman. Shape Sharing for Segmentation. In *Proceedings of the European Conference on Computer Vision (ECCV)*, Florence, Italy, October 2012. (**oral presentation**, 2.8% acceptance rate)
52. S. Vijayanarasimhan and K. Grauman. Active Frame Selection for Label Propagation in Videos. In *Proceedings of the European Conference on Computer Vision (ECCV)*, Florence, Italy, October 2012.
53. S. J. Hwang, K. Grauman, and F. Sha. Semantic Kernel Forests from Multiple Taxonomies. In *Advances in Neural Information Processing Systems (NIPS)*. Lake Tahoe, Nevada, December 2012.
54. D. Parikh, A. Kovashka, A. Parkash, and K. Grauman. Relative Attributes for Enhanced Human-Machine Communication. Invited paper, *Proceedings of AAAI*, Sub-Area Spotlights Track for Best Papers, Toronto, Canada, July 2012.

55. Y. J. Lee, J. Ghosh, and K. Grauman. Discovering Important People and Objects for Egocentric Video Summarization. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Providence, RI, June 2012.
56. B. Gong, Y. Shi, F. Sha, and K. Grauman. Geodesic Flow Kernel for Unsupervised Domain Adaptation. In *Proceedings of the IEEE Conf on Computer Vision and Pattern Recognition (CVPR)*, Providence, RI, June 2012. (**oral presentation**, 2.5% acceptance rate)
57. C.-Y. Chen and K. Grauman. Efficient Activity Detection with Max-Subgraph Search. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Providence, RI, June 2012.
58. A. Kovashka, D. Parikh, and K. Grauman. WhittleSearch: Image Search with Relative Attribute Feedback. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Providence, RI, June 2012.
59. K. Duan, D. Parikh, D. Crandall, and K. Grauman. Discovering Localized Attributes for Fine-grained Recognition. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Providence, RI, June 2012.
60. D. Parikh and K. Grauman. Relative Attributes. In *Proceedings of the International Conference on Computer Vision (ICCV)*, Barcelona, Spain, November 2011. (**oral presentation**, 3% acceptance rate) [**Best Paper Award**]
61. J. Donahue and K. Grauman. Annotator Rationales for Visual Recognition. In *Proceedings of the International Conference on Computer Vision (ICCV)*, Barcelona, Spain, November 2011.
62. A. Kovashka, S. Vijayanarasimhan, and K. Grauman. Actively Selecting Annotations Among Objects and Attributes. In *Proceedings of the International Conference on Computer Vision (ICCV)*, Barcelona, Spain, November 2011.
63. Y. J. Lee, J. Kim, and K. Grauman. Key-Segments for Video Object Segmentation. In *Proceedings of the International Conference on Computer Vision (ICCV)*, Barcelona, Spain, November 2011.
64. S. J. Hwang, K. Grauman, F. Sha. Learning a Tree of Metrics with Disjoint Visual Features. In *Advances in Neural Information Processing Systems (NIPS)*. Granada, Spain, December 2011.
65. Y. J. Lee and K. Grauman. Face Discovery with Social Context. In *Proceedings of the British Conference on Computer Vision (BMVC)*, Dundee, Scotland, August 2011.
66. S. Vijayanarasimhan and K. Grauman. Large-Scale Live Active Learning: Training Object Detectors with Crawled Data and Crowds. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Colorado Springs, CO, June 2011. (**oral presentation**, 3.5% acceptance rate)
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68. D. Parikh and K. Grauman. Interactively Building a Discriminative Vocabulary of Nameable Attributes. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Colorado Springs, CO, June 2011.

69. Y. J. Lee and K. Grauman. Learning the Easy Things First: Self-Paced Visual Category Discovery. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Colorado Springs, CO, June 2011.
70. S. J. Hwang, F. Sha, and K. Grauman. Sharing Features Between Objects and Their Attributes. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Colorado Springs, CO, June 2011.
71. S. Vijayanarasimhan and K. Grauman. Efficient Region Search for Object Detection. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Colorado Springs, CO, June 2011.
72. C.-Y. Chen and K. Grauman. Clues from the Beaten Path: Location Estimation with Bursty Sequences of Tourist Photos. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Colorado Springs, CO, June 2011.
73. Z. Kang, K. Grauman, and F. Sha. Learning with Whom to Share in Multi-task Feature Learning. In *Proceedings of the International Conference on Machine Learning (ICML)*, Bellevue, WA, July 2011. (**oral presentation**)
74. P. Jain, S. Vijayanarasimhan, and K. Grauman. Hashing Hyperplane Queries to Near Points with Applications to Large-Scale Active Learning. In *Advances in Neural Information Processing Systems 23 (NIPS)*, Vancouver, Canada, December 2010.
75. Y. J. Lee and K. Grauman. Object-Graphs for Context-Aware Category Discovery. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, San Francisco, CA, June 2010. (**oral presentation**, 4% acceptance rate)
76. S. J. Hwang and K. Grauman. Reading Between The Lines: Object Localization Using Implicit Cues from Image Tags. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, San Francisco, CA, June 2010. (**oral presentation**, 4% acceptance rate)
77. S. Vijayanarasimhan, P. Jain, and K. Grauman. Far-Sighted Active Learning on a Budget for Image and Video Recognition. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, San Francisco, CA, June 2010.
78. Y. J. Lee and K. Grauman. Collect-Cut: Segmentation with Top-Down Cues Discovered in Multi-Object Images. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, San Francisco, CA, June 2010.
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80. J. Kim and K. Grauman. Asymmetric Region-to-Image Matching for Comparing Images with Generic Object Categories. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, San Francisco, CA, June 2010.
81. S. J. Hwang and K. Grauman. Accounting for the Relative Importance of Objects in Image Retrieval. In *Proceedings of the British Machine Vision Conference (BMVC)*, Aberystwyth, U.K., September 2010. (**oral presentation**, 9% acceptance rate)
82. A. Moorthy, A. Mittal, S. Jahanbin, K. Grauman, A. Bovik. 3D Facial Similarity: Automatic Assessment versus Perceptual Judgments. In *IEEE Fourth International Conference on Biometrics: Theory, Applications and Systems*, September 2010.



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84. S. Vijayanarasimhan and K. Grauman. What's It Going to Cost You?: Predicting Effort vs. Informativeness for Multi-Label Image Annotations. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Miami, FL, June 2009.
85. Y. J. Lee and K. Grauman. Shape Discovery from Unlabeled Image Collections. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Miami, FL, June 2009.
86. J. Kim and K. Grauman. Observe Locally, Infer Globally: a Space-Time MRF for Detecting Abnormal Activities with Incremental Updates. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Miami, FL, June 2009.
87. S. Vijayanarasimhan and K. Grauman. Multi-Level Active Prediction of Useful Image Annotations for Recognition. In *Advances in Neural Information Processing Systems 21 (NIPS)*, Vancouver, Canada, December 2008. (**oral presentation**, 3% acceptance rate)
88. P. Jain, B. Kulis, I. Dhillon, and K. Grauman. Online Metric Learning and Fast Similarity Search. In *Advances in Neural Information Processing Systems 21 (NIPS)*, Vancouver, Canada, December 2008. (**oral presentation**, 3% acceptance rate)
89. P. Jain, B. Kulis, and K. Grauman. Fast Image Search for Learned Metrics. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Anchorage, AK, June 2008. (**oral presentation**, 4% acceptance rate) [**Best Student Paper Award**]
90. S. Vijayanarasimhan and K. Grauman. Keywords to Visual Categories: Multiple-Instance Learning for Weakly Supervised Object Categorization. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Anchorage, AK, June 2008.
91. Y. J. Lee and K. Grauman. Foreground Focus: Finding Meaningful Features in Unlabeled Images. In *Proceedings of the British Machine Vision Conference (BMVC)*, Leeds, U.K., September 2008. (**oral presentation**, 12% acceptance rate)
92. S. Gupta, J. Kim, K. Grauman, and R. Mooney. Watch, Listen & Learn: Co-training on Captioned Images and Videos. In *Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML)*, Antwerp, Belgium, September 2008.
93. A. Kapoor, K. Grauman, R. Urtasun, and T. Darrell. Active Learning with Gaussian Processes for Object Categorization. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Rio de Janeiro, Brazil, October 2007.
94. K. Grauman and T. Darrell. Pyramid Match Hashing: Sub-Linear Time Indexing Over Partial Correspondences. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Minneapolis, MN, June 2007.
95. K. Grauman. The Pyramid Match: Efficient Learning with Partial Correspondences. In *Proceedings of the Association for the Advancement of Artificial Intelligence (AAAI)*, Nectar Track, Vancouver, Canada, July 2007. (oral presentation)
96. K. Grauman and T. Darrell. Approximate Correspondences in High Dimensions. In *Advances in Neural Information Processing Systems 19 (NIPS)*, Vancouver, Canada, December 2006. (**spotlight presentation**)

97. K. Grauman and T. Darrell. Unsupervised Learning of Categories from Sets of Partially Matching Image Features. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, New York City, NY, June 2006. (**oral presentation**, 4.8% acceptance rate)
98. D. Demirdjian, L. Taycher, G. Shakhnarovich, K. Grauman, and T. Darrell. Avoiding the “Streetlight Effect”: Tracking by Exploring Likelihood Modes. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Beijing, China, October 2005.
99. K. Grauman and T. Darrell. The Pyramid Match Kernel: Discriminative Classification with Sets of Image Features. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Beijing, China, October 2005. (**oral presentation**, 3.8% acceptance rate)
100. K. Grauman and T. Darrell. Efficient Image Matching with Distributions of Local Invariant Features. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, San Diego, CA June 2005.
101. T. Yeh, K. Grauman, K. Tollmar, and T. Darrell. A Picture is Worth a Thousand Keywords: Image-Based Object Search on a Mobile Platform. In *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*, Portland, OR, April 2005.
102. K. Grauman and T. Darrell. Fast Contour Matching Using Approximate Earth Mover’s Distance. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Washington DC, June 2004.
103. K. Grauman, G. Shakhnarovich, and T. Darrell. Inferring 3D Structure with a Statistical Image-Based Shape Model. In *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Nice, France, October 2003.
104. K. Grauman, G. Shakhnarovich, and T. Darrell. A Bayesian Approach to Image-Based Visual Hull Reconstruction. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Madison, WI, June 2003.
105. K. Grauman, M. Betke, J. Gips, and G. Bradski. Communication via Eye Blinks: Detection and Duration Analysis in Real Time. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Lihue, HI, December 2001.

### Other reports

1. K. Grauman. Action and Attention in First-person Vision. In *Eyewear Computing — Augmenting the Human with Head-Mounted Wearable Assistants*. Edited by A. Bulling, O. Cakmakci, K. Kunze, and J. Rehg. April 2016.
2. J. Corso, A. Alahi, K. Grauman, G. D Hager, L.-P. Morency, H. Sawhney, Y. Sheikh. Video Analysis for Body-worn Cameras in Law Enforcement. arXiv:1604.03130. April 2016.

## ADVISING ACTIVITY

### *Students' degrees completed under my supervision*

- Dinesh Jayaraman, Ph.D., 8/2017  
Thesis: “Embodied Learning for Visual Recognition”
- Suyog Jain, Ph.D., 5/2017  
Thesis: “Human Machine Collaboration for Foreground Segmentation in Images and Videos”
- Josh Kelle, M.S. with thesis, 5/2017  
Thesis: “Frugal Forests: Learning a Dynamic and Cost Sensitive Feature Extraction Policy for Anytime Activity Classification”
- Steven Chen, B.S. Turing Scholar Honors Thesis, 5/2017  
Thesis: “Compare and Contrast: Learning Prominent Differences in Relative Attributes”
- Chao-Yeh Chen, Ph.D., 5/2016  
Thesis: “Learning Human Activities and Poses with Interconnected Data Sources”
- Adriana Kovashka, Ph.D., 8/2014  
Thesis: “Interactive Image Search with Attributes”
- Jaechul Kim, Ph.D., 8/2013  
Thesis: “Region Detection and Matching for Object Recognition”
- Sung Ju Hwang, Ph.D., 8/2013  
Thesis: “Discriminative Object Categorization with External Semantic Knowledge”
- Sunil Bandla, M. S. with thesis, 5/2013  
Thesis: “Active Learning of an Action Detector on Untrimmed Videos”
- Tomas McCandless, B.S. Turing Scholar Honors Thesis, 5/2013  
Thesis: “Object-Centric Spatio-Temporal Pyramids for Egocentric Activity Recognition”
- Yong Jae Lee, Ph.D., 5/2012  
Thesis: “Visual Object Category Discovery in Images and Videos”
- Sudheendra Vijayanarasimhan, Ph.D., 5/2011  
Thesis: “Active Visual Category Learning”  
Bert Kay Dissertation Award from the Department of Computer Science
- Lucy Liang, B.S. Turing Scholar Honors Thesis, 5/2012  
Thesis: “Active Learning for Image Ranking Over Relative Visual Attributes”  
Best Undergraduate Thesis Award from the Department of Computer Science
- Nona Sirakova, B.S. Turing Scholar Honors Thesis, 5/2012  
Thesis: “Body Pose as an Indicator of Human-Object Interaction”
- Andy Luong, B.S. Turing Scholar Honors Thesis, 5/2011  
Thesis: “Reconstructing a Fragmented Face from an Attacked Secure Identification Protocol”  
Best Undergraduate Thesis Award from the Department of Computer Science

- Jeff Donahue, B.S. Turing Scholar Honors Thesis, 12/2010  
Thesis: “Image Classification with Annotator Rationales”
- Chao-Yeh Chen, M.S. with thesis, 12/2010  
Thesis: “Clues from the Beaten Path: Location Estimation with Bursty Sequences of Tourist Photos”
- Sung Ju Hwang, M.S. with thesis, 5/2010  
Thesis: “Reading Between The Lines: Object Localization Using Implicit Cues from Image Tags”
- Yong Jae Lee, M.S. with thesis, 8/2008  
Thesis: “Foreground Focus: Finding Meaningful Features in Unlabeled Images”

*All Ph.D. student advisees*

- Sudheendra Vijayanarasimhan (2007-2011)
- Yong Jae Lee (2007-2012)
- Jaechul Kim (2008-2013)
- Sung Ju Hwang (2009-2013)
- Adriana Kovashka (2008-2014)
- Chao-Yeh Chen (2010-2016)
- Suyog Jain (2012-2017)
- Dinesh Jayaraman (2013-2017)
- Aron Yu (2013-)
- Bo Xiong (2013-)
- Yu-Chuan Su (2014-)
- Ruohan Gao (2016-)
- Wei-Lin Hsiao (2017-)
- Tushar Nagarajan (2018-)