Kristen Grauman

University of Texas at Austin
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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, and their applications to information retrieval;
Object recognition, image search, large-scale retrieval, visual discovery, active learning.

APPOINTMENTS

Clare Boothe Luce Assistant Professor — Jan 2007-present
University of Texas at Austin, Department of Computer Science — Austin, TX

Postdoctoral Associate — Fall 2006
MIT Computer Science and Artificial Intelligence Laboratory — Cambridge, MA

Research Assistant — 2001-2006
MIT Computer Science and Artificial Intelligence Laboratory — Cambridge, MA

Visiting Research Fellow — Summer 2003
Lawrence Berkeley National Laboratory, Imaging and Informatics Group — Berkeley, CA

Research Intern — Summer 2000
Intel Corporation, Microprocessor Research Labs, Vision and Graphics Group — Santa Clara, CA

Research Assistant — 1999-2001
Boston College Computer Vision Group — Chestnut Hill, MA

TEACHING EXPERIENCE

Assistant Professor at UT-Austin — Jan 2007-present
Undergraduate and graduate computer science courses — Austin, TX
Average instructor rating, undergrad: 4.6 / 5.0, grad: 4.7 / 5.0

Instructor at MIT — Summer 2005
MIT Women's Technology Program — Cambridge, MA
Introductory computer science course for high school seniors.

AWARDS AND HONORS

- Alfred P. Sloan Research Fellow, 2012
- Office of Naval Research Young Investigator Research Award (ONR YIP), 2012
- Marr Prize, Best Paper Award, International Conference on Computer Vision (ICCV), 2011
  For the paper "Relative Attributes", with D. Parikh.
- 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
  12 junior faculty selected across all areas of computer science in U.S. universities
- 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
  5 chosen in all areas of computer science from 100 university-selected nominees in N. America
- 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

- 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
  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

- Computational Research in Boston
  Harvard, MIT, and Lincoln Labs joint seminar, Cambridge, October 2005

- Boston University
  Image and Video Computing Group, Boston, April 2005

- Brown University
  Vision Seminar, Providence, April 2004

- Regular speaker at outreach, education, and recruiting events: Turing Scholars Freshmen, Explore UT, ACM 101, GradFest, Women in Science, Graduate Advising Day, UT Math Club, First Bytes, Breakfast Bytes

TALKS AT INVITED WORKSHOPS

- Massachusetts Institute of Technology
  MIT/NSF Workshop on Frontiers of Computer Vision, August 2011

- Janelia Farm Research Conference
  What Can Computer Vision Do for Neuroscience and Vice Versa?, November 2010

- Banff International Research Station (BIRS)
  Workshop on Computer Vision and the Internet, Banff, August 2009

- The Learning Workshop
  Clearwater, Florida, April 2009

PUBLICATIONS

Book

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.

Book chapters

1. K. Grauman and R. Fergus. Learning Binary Projections for Large-Scale Image Search. Invited chapter, in *Registration, Recognition, and Video Analysis*, R. Cipolla, S. Battiato, and G. Farinella, Editors. Springer, to appear, 2012.

2. 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, 2012.

3. 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. Y. J. Lee and K. Grauman. Object-Graphs for Context-Aware Visual Category Discovery. *IEEE Trans. on Pattern Analysis and Machine Intelligence* (PAMI). June 2011.

2. B. Kulis and K. Grauman. Kernelized Locality-Sensitive Hashing. *IEEE Trans. on Pattern Analysis and Machine Intelligence* (PAMI). November 2011 (online), June 2012 (print).

3. 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). September 2011.

4. 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). October 2011 (online). [**Invited article**]

5. 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.

6. K. Grauman. Efficiently Searching for Similar Images. *Communications of the ACM* (CACM), Vol. 53 No. 6, pp. 84–94, June 2010. [**Invited article**]

7. 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**]

8. 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.

9. 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.

10. 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.

11. 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.

12. 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 $\sim$ 3%-25%)

1. Y. J. Lee, J. Ghosh, and K. Grauman. Discovering Important People and Objects for Egocentric Video Summarization. To appear, *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Providence, RI, June 2012.

2. B. Gong, Y. Shi, F. Sha, and K. Grauman. Geodesic Flow Kernel for Unsupervised Domain Adaptation. To appear, *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Providence, RI, June 2012. (**oral presentation**)

3. C.-Y. Chen and K. Grauman. Efficient Activity Detection with Max-Subgraph Search. To appear, *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Providence, RI, June 2012.

4. A. Kovashka, D. Parikh, and K. Grauman. WhittleSearch: Image Search with Relative Attribute Feedback. To appear, *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Providence, RI, June 2012.

5. K. Duan, D. Parikh, D. Crandall, and K. Grauman. Discovering Localized Attributes for Fine-grained Recognition. To appear, *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Providence, RI, June 2012.

6. 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**]

7. J. Donahue and K. Grauman. Annotator Rationales for Visual Recognition. In *Proceedings of the International Conference on Computer Vision* (ICCV), Barcelona, Spain, November 2011.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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)

13. J. Kim and K. Grauman. Boundary-Preserving Dense Local Regions. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Colorado Springs, CO, June 2011. (**oral presentation**, 3.5% acceptance rate)

14. 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.

15. 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.

16. 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.

17. 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.

18. 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.

19. 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)

20. 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.

21. 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)

22. 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)

23. 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.

24. 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.

25. A. Kovashka and K. Grauman. Learning a Hierarchy of Discriminative Space-Time Neighborhood Features for Human Action Recognition. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), San Francisco, CA, June 2010.

26. 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.

27. 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)

28. 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.

29. B. Kulis and K. Grauman. Kernelized Locality-Sensitive Hashing for Scalable Image Search. In *Proceedings of the IEEE International Conference on Computer Vision* (ICCV), Kyoto, Japan, October 2009.

30. 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.

31. 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.

32. 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.

33. 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)

34. 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)

35. 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**]

36. 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.

37. 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)

38. 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.

39. 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.

40. 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.

41. 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)

42. 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**)

43. 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)

44. 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.

45. 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)

46. 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.

47. 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.

48. 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.

49. 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.

50. 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.

51. 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.

PROFESSIONAL SERVICE ACTIVITY

Editorial Board	International Journal of Computer Vision (IJCV) 2010-
Area Chair	Computer Vision and Pattern Recognition (CVPR) 2013 Neural Information Processing Systems (NIPS) 2012 Asian Conference on Computer Vision (ACCV) 2012 European Conference on Computer Vision (ECCV) 2012 International Conference on Computer Vision (ICCV) 2011 International Conference on Computer Vision (ICCV) 2009 Computer Vision and Pattern Recognition (CVPR) 2009
Chair	Doctoral Consortium, CVPR 2010 Doctoral Spotlights, CVPR 2009
Organizing Committee	IPAM Workshop on Multimedia Search, 2012
Conference Program Committees	Computer Vision and Pattern Recognition (CVPR), 2006-07, 2010-12 International Conference on Computer Vision (ICCV), 2007 European Conference on Computer Vision (ECCV), 2008, 2010 Neural Information Processing Systems (NIPS), 2005, 2007-2010 Assoc. Adv. of Artificial Intelligence (AAAI), AI and the Web, 2011
Journal Reviewer (Regular)	Trans. on Pattern Analysis and Machine Intelligence (PAMI), 2006- International Journal of Computer Vision (IJCV), 2006-
Panelist	National Science Foundation (NSF), 2006, 2009, 2011
Book Reviewer	MIT Press
Instructor	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
Workshop Program Committees	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), 2011 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

ADVISING ACTIVITY

Students' degrees completed under my supervision

- 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
- 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-)
- Adriana Kovashka (2008-)
- Sung Ju Hwang (2009-)
- Chao-Yeh Chen (2010-)