Kristen Grauman

University of Texas at Austin
Department of Computer Science
2317 Speedway, D9500
Austin, TX 78712 USA

Phone: (512) 471-9521
grauman@cs.utexas.edu
http://www.cs.utexas.edu/~grauman/

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, unsupervised visual discovery, deep learning, active learning, first-person computer vision, embodied perception, interactive machine learning, image and video segmentation, vision and language, video summarization.

APPOINTMENTS

Professor
University of Texas at Austin, Department of Computer Science
Sept 2017-
Austin, TX

Research Director
Fundamental AI Research (FAIR), Meta
May 2018-Feb 2025
Austin, TX

Associate Professor
University of Texas at Austin, Department of Computer Science
Sept 2012-August 2017
Austin, TX

Clare Boothe Luce Assistant Professor
University of Texas at Austin, Department of Computer Science
Jan 2007-August 2012
Austin, TX

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

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

Computer Science Instructor
MIT Women's Technology Program
Summer 2005
Cambridge, MA

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

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

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

AWARDS AND HONORS

- AAAS Fellow, 2024

- EgoVis Distinguished Paper Award, 2024
  For the paper, "Ego4D: Around the World in 3,000 Hours of Egocentric Video"

- EgoVis Distinguished Paper Award, 2024
  For the paper, "SoundSpaces 2.0: A Simulation Platform for Visual-Acoustic Learning"

- IEEE Computer Society Edward J. McCluskey Technical Achievement Award, 2023

- First Place, Ego4D 2023 "Episodic Memory Visual Queries" Challenge
  with Hanwen Jiang and Santhosh Ramakrishnan

- First Place, Ego4D 2022 "Talking To Me" Challenge
  with Zihui Xue, Yale Song, and Lorenzo Torresani

- Best Paper Finalist, Conference on Computer Vision and Pattern Recognition (CVPR), 2022
  For the paper, "Ego4D: Around the World in 3,000 Hours of Egocentric Video"

- Best Paper Award Runner Up, British Machine Vision Conference (BMVC), 2021
  For the paper "Geometry-Aware Multi-Task Learning for Binaural Audio Generation from Video" with R. Garg and R. Gao

- First Place, EPIC Action Anticipation Challenge at CVPR 2021
  with Rohit Girdhar. 13 teams competed with 64 total submissions

- IEEE Fellow, 2020

- Blavatnik National Award for Young Scientists, finalist, 2020 and 2021

- Habitat PointNav Challenge, First Place (CVPR), 2020
  with Santhosh Ramakrishnan and Ziad Al-Halah

- Best Paper Finalist, Conference on Computer Vision and Pattern Recognition (CVPR), 2019
  For the paper, "2.5D Visual Sound", with R. Gao

- AAAI Fellow, 2019

- J. K. Aggarwal Prize, International Association for Pattern Recognition (IAPR), 2018

- 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

- 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

Conference plenary keynotes

- International Conference on Developmental Learning (ICDL), May 2024
  Keynote
- Embedded Vision Alliance, May 2023
  Keynote
- EECS Rising Stars, Oct 2022
  Panelist
- 26th International Conference on Pattern Recognition (ICPR), Aug 2022
  Keynote
- IEEE Conference on Computer Vision and Pattern Recognition (CVPR), June 2022
  Plenary panel on Embodied AI
- IEEE Winter Conference on Applications of Computer Vision (WACV), Jan 2022
  Keynote

- Indian Conference on Computer Vision, Graphics, and Image Processing (ICVGIP), Dec 2021
  Keynote
- ACM International Conference on Multimedia Retrieval (ICMR), Nov 2021
  Keynote
- 43rd German Conference on Pattern Recognition (DAGM GCPR), Oct 2021
  Keynote
- 31st IEEE International Wkshp on Machine Learning for Signal Processing (MLSP), Oct 2021
  Keynote
- IEEE International Conference on Image Processing (ICIP), Sept 2021
  Keynote
- Korean Conference on Computer Vision (KCCV), Aug 2021
  Keynote
- ACM Multimedia Asia, Feb 2021
  Keynote
- ACM International Conference on Web Search and Data Mining (WSDM)
  Keynote, Houston, TX, Feb 2020
- International Conference on Intelligent Robotics and Systems (IROS)
  Keynote, Macau, China, November 2019
- Speech and Audio in the Northeast (SANE)
  Keynote, Columbia University, October 2019
- Midwest Machine Learning Symposium
  Keynote, Madison, WI, June 2019
- International Conf. Medical Image Computing & Computer Assisted Intervention (MICCAI)
  Keynote, Granada, Spain, September 2018
- International Conference on Learning Representations (ICLR)
  Keynote, Vancouver, Canada, April 2018
- International Conference on Pattern Recognition (ICPR)
  Keynote, Beijing, China, August 2018
- 31st AAAI Conference on Artificial Intelligence
  Keynote, San Francisco, Feb 2017
- 12th International Symposium on Visual Computing
  Keynote, Las Vegas, Dec 2016
- 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
- Conference on Human Computation and Crowdsourcing (HCOMP)
  Keynote, Pittsburgh, PA, Nov 2014
- 23rd International Joint Conference on Artificial Intelligence (IJCAI)
  Computers and Thought Award Keynote, Bejing, China, August 2013
- IEEE International Conference on Multimedia and Expo (ICME)
  Keynote, 13th Annual Conference, Melbourne, Australia, July 2012
- Conference on Autonomous Agents and Multiagent Systems
  Keynote, 10th Annual Conference (AAMAS), Taipei, Taiwan, May 2011
- Students & Technology in Academia, Research & Service Alliance Celebration
  Keynote, Orlando, August 2010

University colloquia and seminars

- Boston University, Distinguished AI Speaker Series, Dec 2024
- Institut Henri Poincare, Computer Vision Day, Nov 2024
- Hawaii Pacific University, Oct 2024
- MIT, Embodied Intelligence, April 2023
- UT Austin, Workshop on Natural Environments Tasks and Intelligence (NETI), April 2023
- UT Austin, 6G@UT Forum, March 2023
- UT Austin, Graduate Women and Gender Minorities in Computing Research Symposium, March 2023
- University of California at San Diego, Nov 2022
- Stanford, Conference on Generality in Artificial Intelligence: 50 Years On, April 2022
- MIT, Embodied Intelligence, Dec 2021
- Boston College, Dec 2021
- KAIST Computer Science Colloquium, Oct 2021
- Institute for Research in Fundamental Sciences (IPM) AI Summer School, Sept 2021
- INRIA Grenoble MIAI Distinguished Lecture, Sept 2021
- UT Austin Acoustics Seminar, Oct 2021
- Univ. of Illinois at Urbana-Champaign (UIUC), ECE Distinguished Colloquium, April 2021
- University of Oxford, Visual Geometry Group Seminar, April 2021
- Johns Hopkins University, MINDS/CIS Seminar, April 2021
- TU Munich, AI Lecture Series, Dec 2020
- York University, Centre for Vision Research Seminar, Oct 2020
- Stanford University, Vision Group Seminar, Sept 2020
- Northwestern University
  Department of Computer Science Colloquium, Evanston, IL (virtual), May 2020
- University of Minnesota
  Distinguished Clay Speaker Series, Dept. of Computer Science, Minneapolis, MN, Jan 2020
- University of Utah
  AI Lecture Series, Department of Computer Science, Salt Lake City, UT, Jan 2020
- Industry-Academia Partnership, Cloud Workshop
  University of Texas at Austin, Dec 2019
- Texas Analytics Summit, McCombs School of Business, U of Texas at Austin, Oct 2019
- ICES Babuska Forum, Institute for Computational Engineering and Sciences
  University of Texas at Austin, Sept 2019
- International Computer Vision Summer School (ICVSS)
  Sicily, July 2019
- Indiana University, School of Informatics, Computing, and Engineering
  Distinguished Speaker Series, Bloomington, IN, April 2019
- Cornell Tech
  Learning Machines Seminar, New York, NY, Mar 2019
- University of Toronto
  Distinguished Lecture, Toronto, Canada, Jan 2019
- University of California at Davis
  Distinguished Lecture, Davis, CA, Jan 2019

- Marquette University
  ECE Seminar, Milwaukee, WI, Jan 2019

- Cornell University
  CS Colloquium, Ithaca, NY, Nov 2018

- University of Pennsylvania
  GRASP Lab Seminar, Philadelphia, PA, Nov 2018

- University of Michigan
  Weinberg Symposium on Shared Frontiers of Artif. Intelligence and Cog. Science, April 2018

- Stanford University
  Stanford Center for Image Systems Engineering Seminar, Jan 2018

- ETH Zurich
  Computer Vision Laboratory, May 2017

- University of Alabama
  Distinguished Lecture, Dept of Computer and Information Sciences, Birmingham, Oct 2016

- Technion Computer Engineering Center
  Sixth Annual Henry Taub TCE Conference: 3D Visual Computing: Graphics, Geometry & Imaging, Haifa, May 2016

- Toyota Technological Institute (TTI)
  TTIC Colloquium, Chicago, IL, April 2016

- University College London (UCL)
  Gatsby Computational Neuroscience Unit External Seminar, July 2015

- Princeton University
  Department of Computer Science Colloquium, Princeton, NJ, Dec 2014

- École Normale Supérieure
  ENS/INRIA Visual Recognition and Machine Learning Summer School, Paris, July 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

- 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

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

- Texas State University
  Computer Science Seminar, July 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
- 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
- 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
- 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
- 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

Conference workshop keynotes
- ECCV 2024 Large-Scale Video Object Segmentation, Oct 2024
- CVPR 2024 Open-Vocabulary 3D Scene Understanding, June 2024
- CVPR 2024 Multimodal Human Activity PerceptioN and GeneratiOn (MANGO), June 2024
- CVPR 2024 Towards Building AGI in Autonomy and Robotics, June 2024
- NeurIPS 2023 Foundation Models for Decision Making, Dec 2023
- CoRL 2023 Pre-Training for Robot Learning Workshop, Nov 2023
- IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA), Oct 2023
- ICCV 2023 GeoNet: Unsupervised Adaptation across Geographies, October 2023
- ICCV 2023 What is Next in Multimodal Foundation Models?, October 2023
- ICCV 2023 Large-Scale Video Object Segmentation, October 2023
- CogSci 2023 Cognitive-AI Benchmarking, July 2023

- CVPR 2023 Sight and Sound, June 2023
- CVPR 2023 Computer Vision in the Wild (CVinW), June 2023
- CVPR 2023 Reconstruction of Human-Object Interactions (RHOBIN), June 2023
- CVPR 2023 Women in Computer Vision, June 2023
- ICRA 2023 Pretraining for Robotics, May 2023
- ICLR 2023 Multimodal Representation Learning (MRL): Perks and Pitfalls, May 2023
- ICLR 2023 Machine Learning for IoT: Datasets, Perception, and Understanding, May 2023
- NeurIPS 2022 Vision Transformers: Theory and Application, Dec 2022
- NeurIPS 2022 Women in Machine Learning Workshop, Panelist, Dec 2022
- Dagstuhl Developmental Machine Learning: From Human Learning to Machines and Back, Oct 2022
- KDD 2022 Content Understanding and Generation for Ecommerce, August 2022
- RSS 2022 Workshop on Learning from Diverse, Offline Data, June 2022
- RSS 2022 Pioneers Workshop, June 2022
- RSS 2022 Workshop on Scaling Robot Learning, June 2022
- CVPR 2022 Academy Workshop for New Attendees, June 2022
- CVPR 2022 Visual Perception and Learning in an Open World, June 2022
- CVPR 2022 Artificial Social Intelligence, June 2022
- Stanford and University of Washington Workshop on Video Analytics, May 2022
- AAAI 2022 Workshop on Human-Centric Self-Supervised Learning, Feb 2022
- AAAI 2022 Workshop on Self-supervised Learning for Audio and Speech Processing, Feb 2022
- ICML 2021 Self-supervised Learning for Reasoning and Perception Workshop, July 2021
- ICCV 2021 BEHAVIOR, a Benchmark for Everyday Household Activities in Virtual, Interactive, and Ecological Environments, Oct 2021
- ICCV 2021 Workshop on Low Power Computer Vision (LPCV), Oct 2021
- ICCV 2021 9th International Workshop on Egocentric Perception Interaction and Computing: Introducing Ego4D - a Massive First-Person Dataset and Challenge (EPIC), Oct 2021
- ICCV 2021 Structured Representations for Video Understanding (SRVC), Oct 2021
- ICCV 2021 5th Workshop on Computer Vision for AR/VR (CV4ARVR), Oct 2021
- ICCV 2021 Unidentified Video Objects (UVO), Oct 2021
- IJCAI 2021 AI for Autonomous Driving (AI4AD), Aug 2021
- Detection and Classification of Acoustic Scenes and Events (DCASE), Nov 2021
- NAACL 2021 Workshop on Multimodal Artificial Intelligence, June 2021
- CVPR 2021 Workshop on Fine Grained Visual Categorization (FGVC8), June 2021
- CVPR 2021 Workshop on Egocentric Perception, Interaction, and Computing, June 2021
- CVPR 2021 Workshop on Language for 3D Scenes, June 2021
- CVPR 2021 Workshop for 3D Deep Learning and Robotics, June 2021
- CVPR 2021 Sight and Sound Workshop, June 2021
- CVPR 2021 Computer Vision for Fashion, Art, Design Workshop, June 2021
- CVPR 2021 AI for Content Creation Workshop, June 2021
- CVPR 2021 Large Scale Holistic Video Understanding Workshop, June 2021

- CVPR 2021 Tutorial on Video Understanding, June 2021

- CVPR 2021 Computational Measurements of Machine Creativity, June 2021

- NeurIPS 2020 Self-Supervised Learning - Theory and Practice
  Neural Information Processing Systems (NeurIPS) workshop, Dec 2020

- NeurIPS 2020 Human And Machine in-the-Loop Evaluation and Learning Strategies (HAM-LET)
  Neural Information Processing Systems (NeurIPS) workshop, Dec 2020

- ECCV 2020 Embodied Vision, Actions & Language Workshop
  European Conference on Computer Vision (ECCV), August 2020

- ECCV 2020 Sensing, Understanding and Synthesizing Humans Workshop
  European Conference on Computer Vision (ECCV), August 2020

- ECCV 2020 Compositional and Multimodal Video Perception Challenge
  European Conference on Computer Vision (ECCV), August 2020

- ECCV 2020 Learning 3D Representations for Shape and Appearance
  European Conference on Computer Vision (ECCV), August 2020

- ICML 2020 Self-supervised Learning in Audio and Speech Workshop
  International Conference on Machine Learning (ICML), July 2020

- CVPR 2020 Sixth International Workshop on Egocentric Perception, Interaction and Computing (EPIC)
  Computer Vision and Pattern Recognition (CVPR) Workshop, June 2020

- CVPR 2020 3D Scene Understanding for Vision, Graphics, and Robotics
  Computer Vision and Pattern Recognition (CVPR) Workshop, June 2020

- CVPR 2020 Long-Term Visual Localization, Visual Odometry and Geometric and Learning-based SLAM
  Computer Vision and Pattern Recognition (CVPR) Workshop, June 2020

- CVPR 2020 Sight and Sound
  Computer Vision and Pattern Recognition (CVPR) Workshop, June 2020

- CVPR 2020 Omnidirectional Computer Vision
  Computer Vision and Pattern Recognition (CVPR) Workshop, June 2020

- CVPR 2020 Retail Vision
  Computer Vision and Pattern Recognition (CVPR) Workshop, June 2020

- CVPR 2020 3rd Workshop on Computer Vision For Fashion, Art and Design
  Computer Vision and Pattern Recognition (CVPR) Workshop, June 2020

- CVPR 2019 Computer Vision Applications for Mixed Reality Headsets Workshop
  Computer Vision and Pattern Recognition (CVPR) Workshop, Long Beach, CA, June 2019

- CVPR 2019 Multimodal Learning from Videos Workshop
  Computer Vision and Pattern Recognition (CVPR) Workshop, Long Beach, CA, June 2019

- CVPR 2019 360 Indoor Scene Understanding and Modeling (SUMO)
  Computer Vision and Pattern Recognition (CVPR) Workshop, Long Beach, CA, June 2019

- CVPR 2019 Target Re-Identification and Multi-Target Multi-Camera Tracking Workshop
  Computer Vision and Pattern Recognition (CVPR) Workshop, Long Beach, CA, June 2019

- CVPR 2019 3D Scene Generation Workshop
  Computer Vision and Pattern Recognition (CVPR) Workshop, Long Beach, CA, June 2019

- CVPR 2019 Learning from Unlabeled Videos Workshop
  Computer Vision and Pattern Recognition (CVPR) Workshop, Long Beach, CA, June 2019

- CVPR 2019 Workshop on Visual Understanding by Learning from Web Data (WebVision)
  Computer Vision and Pattern Recognition (CVPR) Workshop, Long Beach, CA, June 2019

- CVPR 2019 Multimodal Learning and Applications Workshop
  Computer Vision and Pattern Recognition (CVPR) Workshop, Long Beach, CA, June 2019
- Facebook AI
  Facebook AI Video Summit, Los Angeles, CA, June 2019
- ECCV 2018 Interactive and Adaptive Learning in an Open World
  European Conf. on Computer Vision (ECCV) Workshop, Munich, Germany, September 2018
- ECCV 2018 Computer Vision For Fashion, Art, and Design
  European Conf. on Computer Vision (ECCV) Workshop, Munich, Germany, September 2018
- ECCV 2018 What is Optical Flow for?
  European Conf. on Computer Vision (ECCV) Workshop, Munich, Germany, September 2018
- CVPR 2018 Deep Learning in Robotic Vision
  Computer Vision and Pattern Recognition (CVPR) Workshop, Salt Lake City, June 2018
- CVPR 2018 Language and Vision
  Computer Vision and Pattern Recognition (CVPR) Workshop, Salt Lake City, June 2018
- CVPR 2018 Good Citizen of CVPR
  Computer Vision and Pattern Recognition (CVPR) Workshop, Salt Lake City, June 2018
- CVPR 2018 Visual Understanding of Subjective Attributes of Data
  Computer Vision and Pattern Recognition (CVPR) Workshop, Salt Lake City, June 2018
- 6th International Workshop on Computer Vision (IWCV)
  Modena, Italy, May 2018
- ICCV 2017 Egocentric Perception, Interaction, and Computing
  International Conference on Computer Vision (ICCV) Workshop, Venice, Oct 2017
- ICCV 2017 Learning to See from 3D Data
  International Conference on Computer Vision (ICCV) Workshop, Venice, Oct 2017
- Dagstuhl Workshop on Deep Learning and Computer Vision
  Schloss Dagstuhl, Germany, Sept 2017
- Frontiers of Video Technology Workshop
  Adobe Research, July 2017
- Simons Institute for the Theory of Computing
  Representation Learning Workshop, Berkeley, Mar 2017
- AAAI Spring Symposium Series, Stanford University
  Science of Intelligence: Computational Principles of Natural and Artif. Intelligence, Mar 2017
- Human Computation for Image and Video Analysis Workshop
  Keynote, Austin, Nov 2016
- U.S. Frontiers of Engineering Symposium
  National Academy of Engineering (NAE), Irvine, CA, Sept 2016
- CVPR 2016 Fourth Workshop on Egocentric (First-Person) Vision
  Keynote, Computer Vision and Pattern Recognition (CVPR) Workshop, Las Vegas, June 2016
- CVPR 2016 Moving Cameras Meet Video Surveillance: From Body-Borne Cameras to Drones
  Keynote, Computer Vision and Pattern Recognition (CVPR) Workshop, Las Vegas, June 2016
- CVPR 2016 First-person Visual Sensing: Theory, Models, and Application
  Computer Vision and Pattern Recognition (CVPR) Tutorial, Las Vegas, June 2016
- CVPR 2016 SUNw: Scene Understanding Workshop
  Computer Vision and Pattern Recognition (CVPR) Workshop, Las Vegas, June 2016
- CVPR 2016 WiCV Women in Computer Vision
  Keynote, Computer Vision and Pattern Recognition (CVPR) Workshop, Las Vegas, June 2016

- CVPR 2015 Workshop on Language and Vision
  Computer Vision and Pattern Recognition (CVPR) Workshop, Boston, MA, June 2015
- CVPR 2015 Workshop on Large Scale Visual Commerce
  Computer Vision and Pattern Recognition (CVPR) Workshop, Boston, MA, June 2015
- International Workshop on Computer Vision (IWCV)
  Session on First Person Vision, Alghero, Italy, May 2014
- ICCV 2013 International Workshop on Visual Domain Adaptation and Dataset Bias
  International Computer Vision Conference (ICCV) Workshop, Sydney, Australia, Dec 2013
- ICCV 2013 Workshop on Wearable Computer Vision Systems
  International Computer Vision Conference (ICCV) Workshop, Sydney, Australia, Dec 2013
- CVPR 2013 Workshop on Visual Analysis Beyond Semantics Keynote
  Computer Vision and Pattern Recognition (CVPR) Workshop, Portland, OR, June 2013
- ECCV 2012 Parts and Attributes Workshop Keynote
  European Conference on Computer Vision (ECCV) Workshop, Firenze, Italy, October 2012
- CVPR 2012 Perceptual Organization in Computer Vision Workshop
  Computer Vision and Pattern Recognition (CVPR) Workshop, Providence, RI, June 2012
- CVPR 2011 Large Scale Learning for Vision Workshop
  Computer Vision and Pattern Recognition (CVPR) Workshop, Colorado Springs, June 2011
- Janelia Farm Research Conference
  What Can Computer Vision Do for Neuroscience and Vice Versa?, November 2010
- NIPS 2009 Women in Machine Learning Workshop
  Neural Information Processing Systems (NIPS) Workshop, Vancouver, December 2009
- IEEE MetroCon
  Annual engineering conference, Dallas, August 2009
- Banff International Research Station (BIRS)
  Workshop on Computer Vision and the Internet, Banff, August 2009
- CVPR 2009 Visual and Contextual Learning from Annotated Images and Videos Workshop
  Computer Vision and Pattern Recognition (CVPR) Workshop, Miami, June 2009
- The Learning Workshop
  Clearwater, Florida, April 2009
- International Workshop on Object Recognition
  Lake Como, Italy, May 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
- NIPS 2005 Discovery of Object Categories Workshop
  Neural Information Processing Systems (NIPS) Workshop, Vancouver, December 2005
- NIPS 2005 Kernel Methods and Structured Domains Workshop
  Neural Information Processing Systems (NIPS) Workshop, Vancouver, December 2005

Industry and government lab seminars

- Video Symposium, DeepMind, London, September 2023
- Metaverse Meetup Panel Israel, July 2022
- Google Media Understanding Research, March 2022
- DARPA ISAT Metaverse Workshop, Feb 2022
- Google Let's Talk Tech Series, Jan 2022

- Society of Motion Picture & Television Engineers (SMPTE), Nov 2021
- Microsoft Research Summit, Oct 2021
- Navy Center for Applied Research in Artificial Intelligence Symposium, Jan 2021
- Google Future of Ads & Commerce Technology Conference, Oct 2020
- Pinterest Labs, Sept 2020
- Google Research, Sept 2020
- Cirrus Logic, Aug 2020
- Amazon Computer Vision Conference
  Keynote, June 2020
- Microsoft Research AI
  Distinguished Speaker Series, Redmond, WA, Feb 2020
- Facebook
  Feed and Story Distinguished Speaker Seminar Series, Menlo Park, CA, May 2019
- IBM Austin, AI Seminar, Austin, TX, Dec 2018
- Google Research
  Keynote, Multimodal Machine Perception Workshop, San Francisco, CA, Oct 2018
- MIT-IBM Watson AI Lab, Cambridge, MA, August 2018
- NVIDIA Research, Santa Clara, CA, June 2018
- Amazon AWS re:Invent, Deep Learning Summit, Las Vegas, Nov 2017
- IBM Research, Distinguished Talk, August 2017
- Amazon Lab126, Computer Vision and Machine Learning Group, August 2017
- 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
- eBay Research Labs
  Computer Vision Group, San Jose, CA, January 2014
- IBM T. J. Watson Research
  Exploratory Computer Vision Group, New York, October 2013
- Microsoft Faculty Summit
  Session on Visual Recognition, Redmond, WA, July 2013
- Embedded Vision Alliance Keynote
  Austin, TX, December 2012
- MIT Lincoln Laboratory
  Imaging Science Initiative Seminar, Lexington, MA, September 2011
- Interactive Query Refinement Workshop
  Columbia University and DARPA/ARO, New York City, September 2010
- Microsoft Research
  Interactive Visual Media Group Seminar, Redmond, August 2010
- IBM Austin Research Laboratory
  Cell and Vision/UI Workshop, Austin, March 2008
- Department of Energy Computational Science Conference
  Washington, DC, June 2007
- Microsoft Research
  Interactive Visual Media Group Seminar, Redmond, April 2006

PROFESSIONAL SERVICE ACTIVITY

Program Chair	Computer Vision and Pattern Recognition (CVPR) 2015 Neural Information Processing Systems (NeurIPS) 2018 International Conference on Computer Vision (ICCV) 2023
Associate Editor in Chief	IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI), 2016-2021
Editorial Board	International Journal of Computer Vision (IJCV) 2010-2021
Co-Editor	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 Pattern Analysis and Machine Intelligence (PAMI) Special Issue, Egocentric Perception, 2020
Senior Area Chair	Neural Information Processing Systems (NIPS) 2017, 2020 International Conference on Machine Learning (ICML) 2019 Computer Vision and Pattern Recognition (CVPR) 2025
Area Chair	International Conference on Computer Vision (ICCV) '09, '11, '13, '17 Computer Vision and Pattern Recognition (CVPR) '09, '13, '19, '20 European Conference on Computer Vision (ECCV) '12, '14, '16, '18, '22 Asian Conference on Computer Vision (ACCV) 2012 Neural Information Processing Systems (NIPS) 2012 International Conference on Machine Learning (ICML) 2015, 2016
Chair	Tutorials and Short Courses, CVPR 2014 Doctoral Consortium, CVPR 2009, 2010 Best Paper Awards Selection Committee, CVPR 2023
Member	Information Science and Technology (ISAT) Study Group, 2013-16 AI Roadmap, CCC workshop, San Francisco, Jan 2019
Judge	WiCS Hackathon, 2018, 2020, 2022

Organizing Committee	ECCV 2022 Audio-Visual 4D, 2022
	CVPR workshop on Ego4D-EPIC, 2022
	CVPR workshop on Learning from Unlabeled Video, 2021
	ICLR workshop on Embodied Multimodal Learning, 2021
	CVPR workshop on Long-form Video Understanding, 2021, 2022
	CVPR Embodied AI SoundSpaces challenge, 2021
	CVPR workshop on Ego. Perception, Interaction, & Comp, '19, '21
	CVPR Joint Intl 1st Ego4D and 10th EPIC Workshop, 2022
	ICCV workshop on 360 Perception and Interaction, 2019
	ICCV wkshop on Ego. Perception, Interaction, Comp (EPIC), '19, '21
	CVPR workshop on Sight and Sound, 2019, 2021, 2022
	ECCV workshop on 360 Perception and Interaction, 2018
	ECCV workshop on VizWiz Grand Challenge, 2018
	ECCV workshop on Human-Machine Communication, 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
	IPAM workshop on Multimedia Search, 2012
Conference Program Committees	CVPR '06,'07,'10, '11, '12, '16, '21
	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
Journal Reviewer	Trans. on Pattern Analysis and Machine Intelligence (PAMI), 2006-
	International Journal of Computer Vision (IJCV), 2006-
Panelist	National Science Foundation (NSF)
Board	EgoVis, 2023-
Book Reviewer	MIT Press
Instructor/ Co-Instructor	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

Workshop Program Committees	Eurographics Wkshop on Intelligent Cinematography and Editing, 2017
	CVPR Wkshop Deep Learning for Robotics Perception, 2017
	ICCV Wkshop on Closing the Loop between Language and Vision, 2015
	ICCV Wkshop on Assistive Comp. Vision and Robotics (ACVR), 2015
	EMNLP Wkshop on Vision and Language (VL), 2015
	ICME Wkshop on Wearable and Ego-vision Sys. Augmented Exp, 2015
	CVPR Wkshop on Big Data Meets Computer Vision, 2015
	ECCV Wkshop on Assistive Comp. 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 (VisDA), 2013
	ICCV Wkshop on Wearable Computer Vision Systems, 2013
	NAACL Wkshop on Vision and Natural Lang. 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. B. Gong, K. Grauman, F. Sha. Geodesic Flow Kernel and Landmarks: Kernel Methods for Unsupervised Domain Adaptation. Chapter in book Domain Adaptation in Computer Vision Applications, Editor: Csurka, Gabriela (Ed.) Springer. pp. 59-79. 2017.

2. 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.

3. 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.

4. A. Kovashka and K. Grauman. Attributes for Image Retrieval. Invited chapter, in *Visual Attributes.* R. Feris, C. Lampert, and D. Parikh, Editors. Springer. 2017.

5. 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.

6. 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.

7. 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.

8. 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. K. Grauman et al. Ego4D: Around the World in 3,600 Hours of Egocentric Video. IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI). **Invited article, Best Papers of CVPR'22**. 2024

2. R. Garg, R. Gao, K. Grauman. Visually-Guided Audio Spatialization in Video with Geometry-Aware Multi-task Learning. International Journal of Computer Vision (IJCV). Vol 131. **Invited article, Best Papers of BMVC'21** 2023.

3. Y-C. Su and K. Grauman. Learning Spherical Convolution for 360 Recognition. Transactions on Pattern Analysis and Machine Intelligence (PAMI), Sept 2021.

4. S. Ramakrishnan, D. Jayaraman, K. Grauman. An Exploration of Embodied Visual Exploration. International Journal of Computer Vision, 2021.

5. Z. Al-Halah and K. Grauman. Modeling Fashion Influence from Photos. IEEE Transactions on Multimedia, Nov 2020.

6. Y-C. Su and K. Grauman. Learning Compressible 360 Video Isomers. Transactions on Pattern Analysis and Machine Intelligence (PAMI). Feb 2020.

7. N. Payntar, W-L. Hsiao, A. Covey, K. Grauman. Learning Patterns of Tourist Movement and Photography from Geotagged Photos at Archaeological Heritage Sites in Cuzco, Peru. To appear, Elsevier Journal of Tourism Management, Volume 82, Feb 2021.

8. A. Yu and K. Grauman. Densifying Supervision for Fine-Grained Comparisons. International Journal of Computer Vision (IJCV), Special Issue on Generative Adversarial Networks for Computer Vision, Volume 128, Aug 2020.

9. S. Jain and K. Grauman. ClickCarving: Interactive Object Segmentation in Images and Videos with Point Clicks. International Journal of Computer Vision (IJCV), Issue 9, 2019.

10. S. Ramakrishnan, D. Jayaraman, and K. Grauman. Emergence of Exploratory Look-around Behaviors through Active Observation Completion. *Science Robotics* Vol. 4, Issue 30, May 2019.

11. D. Gurari, Y. Zhao, S. Jain, M. Betke, and K. Grauman. Predicting How to Distribute Work Between Algorithms and Humans to Segment an Image Batch. *International Journal of Computer Vision* (IJCV), Volume 127, Issue 9, pp. Mar 2019.

12. B. Xiong, S. Jain, and K. Grauman. Pixel Objectness: Learning to Segment Generic Objects Automatically in Images and Videos. *Transactions on Pattern Analysis and Machine Intelligence* (PAMI), Volume 41, Issue 11, pp. 2677–2692, Aug 2018.

13. D. Jayaraman and K. Grauman. End-to-end Policy Learning for Active Visual Categorization. *Transactions on Pattern Analysis and Machine Intelligence* (PAMI), Volume 41, Issue 7, pp. 1601–1614, July 2018.

14. 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). *International Journal of Computer Vision* (IJCV), Volume 126, Issue 7, July 2018.

15. 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.

16. D. Jayaraman and K. Grauman. Learning Image Representations Tied to Egomotion from Unlabeled Video. *International Journal of Computer Vision* (IJCV), Volume 125, Issue 13, Dec 2017. [**Invited article for best papers of ICCV 2015**]

17. 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), Volume 126, Issue 24, Oct 2016.

18. 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), Volume 39, Issue 5, April 2016.

19. 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.

20. 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.

21. 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.

22. 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.

23. 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.

24. 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.

25. 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.

26. 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.

27. 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.

28. 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.

29. 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**]

30. 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.

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

32. 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**]

33. 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.

34. 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.

35. 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.

36. 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.

37. 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. Z. Xue, J. An, X. Yang, K. Grauman. Progress-Aware Video Frame Captioning. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025

2. M. Luo, Z. Xue, A. Dimakis, K. Grauman. Viewpoint Rosetta Stone: Unlocking Unpaired Ego-Exo Videos for View-invariant Representation Learning. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025

3. K. Ashutosh, T. Nagarajan, G. Pavlakos, K. Kitani, K. Grauman. ExpertAF: Expert Actionable Feedback from Video. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025

4. K. Ashutosh, G. Pavlakos, K. Grauman. FIction: 4D Future Interaction Prediction from Video. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025.

5. S. Majumder, T. Nagarajan, Z. Al-Halah, R. Pradhan, K. Grauman. Which Viewpoint Shows it Best? Language for Weakly Supervising View Selection in Multi-view Instructional Videos. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025.

6. Z. Xue, M. Luo, C. Chen, K. Grauman. HOI-Swap: Swapping Objects in Videos with Hand-Object Interaction Awareness. In Advances in Neural Information Processing Systems (NeurIPS), 2024.

7. C. Chen, P. Peng, A. Baid, Z. Xue, W.-N. Hsu, D. Harwath, K. Grauman. Action2Sound: Ambient-Aware Generation of Action Sounds from Egocentric Videos. In Proceedings of the European Conference on Computer Vision (ECCV), 2024. **(oral)**

8. M. Luo, Z. Xue, A. Dimakis, K. Grauman. Put Myself in Your Shoes: Lifting the Egocentric Perspective from Exocentric Videos. In Proceedings of the European Conference on Computer Vision (ECCV), 2024.

9. F. Cheng, M. Luo, H. Wang, A. Dimakis, L. Torresani, G. Bertasius, K. Grauman. 4DIFF: 3D-Aware Diffusion Model for Third-to-First Viewpoint Translation. In Proceedings of the European Conference on Computer Vision (ECCV), 2024.

10. A. Somayazulu, S. Majumder, C. Chen, K. Grauman. Active Audio-Visual Exploration for Acoustic Environment Modeling. Proceedings of the IEEE International Conference on Intelligent Robots and Systems (IROS) 2024.

11. C. Chen, J. Ramos Chen, A. Tomar, K. Grauman. Sim2Real Transfer for Audio-Visual Navigation with Frequency-Adaptive Acoustic Field Prediction. Proceedings of the IEEE International Conference on Intelligent Robots and Systems (IROS) 2024.

12. K. Grauman et al. Ego-Exo4D: Understanding Skilled Human Activity from First- and Third-Person Perspectives. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024. **(oral)**

13. K. Ashutosh, Z. Xue, T. Nagarajan, K. Grauman. Detours for Navigating Instructional Videos. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024. **(highlight)**

14. Z. Xue, K. Ashutosh, K. Grauman. Learning Object State Changes in Videos: An Open-World Perspective. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024.

15. C. Chen, K. Ashutosh, R. Girdhar, D. Harwath, K. Grauman. SoundingActions: Learning How Actions Sound from Narrated Egocentric Videos. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024.

16. S. Majumder, Z. Al-Halah, K. Grauman. Learning Spatial Features from Audio-Visual Correspondence in Egocentric Videos. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024.

17. T. Nagarajan, S. Ramakrishnan, R. Desai, J. Hillis, K. Grauman. EgoEnv: Human-centric environment representations from egocentric video. In Advances in Neural Information Processing Systems (NeurIPS), 2023. **(oral)**

18. Z. Xue and K. Grauman. Learning Fine-grained View-Invariant Representations from Unpaired Ego-Exo Videos via Temporal Alignment. In Advances in Neural Information Processing Systems (NeurIPS), 2023.

19. H. Jiang, S. Ramakrishnan, K. Grauman. Single-Stage Visual Query Localization in Egocentric Videos. In Advances in Neural Information Processing Systems (NeurIPS), 2023. **Winner of Ego4D VQ2D challenge 2023**

20. S. Tan, T. Nagarajan, K. Grauman. EgoDistill: Egocentric Head Motion Distillation for Efficient Video Understanding. In Advances in Neural Information Processing Systems (NeurIPS), 2023.

21. K. Ashutosh, S. Ramakrishnan, T. Afouras, K. Grauman. Video-Mined Task Graphs for Keystep Recognition in Instructional Videos. In Advances in Neural Information Processing Systems (NeurIPS), 2023.

22. A. Somayazulu, C. Chen, K. Grauman. Self-Supervised Visual Acoustic Matching. In Advances in Neural Information Processing Systems (NeurIPS), 2023.

23. H. Tang, K. Liang, K. Grauman, M. Feiszli, W. Wang. EgoTracks: A Long-term Egocentric Visual Object Tracking Dataset. In Advances in Neural Information Processing Systems (NeurIPS), 2023.

24. S. Ramakrishnan, Z. Al-Halah, K. Grauman. SpotEM: Efficient Video Search for Episodic Memory. Proceedings of the International Conference on Machine Learning (ICML), 2023

25. X. Hu, S. Purushwalkam, D. Harwath, K. Grauman. Learning to Map Efficiently by Active Echolocation. Proceedings of the IEEE International Conference on Intelligent Robots and Systems (IROS), 2023.

26. K. Ashutosh, R. Girdhar, L. Torresani, K. Grauman. HierVL: Learning Hierarchical Video-Language Embeddings. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023.

27. S. Ramakrishnan, Z. Al-Halah, K. Grauman. NaQ: Leveraging Narrations as Queries to Supervise Episodic Memory. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023.

28. S. Majumder, H. Jiang, P. Moulon, E. Henderson, P. Calamia, K. Grauman*, V. Ithapu*. Chat2Map: Efficient Scene Mapping from Multi-Ego Conversations. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023.

29. Z. Xue, Y. Song, K. Grauman, L. Torresani. Egocentric Video Task Translation. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023 (**Highlight paper**).

30. C. Chen, A. Richard, R. Shapovalov, V. Ithapu, N. Neverova, K. Grauman, A. Vedaldi. Novel-View Acoustic Synthesis. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023.

31. C. Chen, W. Sun, D. Harwath, K. Grauman. Learning Audio-Visual Dereverberation. International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2023.

32. C. Chen, C. Schissler, S. Garg, P. Kobernik, A. Clegg, P. Calamia, D. Batra, P. Robinson, K. Grauman. SoundSpaces 2.0: A Simulation Platform for Visual-Acoustic Learning. In Advances in Neural Information Processing Systems (NeurIPS), 2022.

33. S. Majumder, C. Chen, Z. Al-Halah, K. Grauman. Few-Shot Audio-Visual Learning of Environment Acoustics. In Advances in Neural Information Processing Systems (NeurIPS), 2022.

34. K. Grauman et al. Ego4D: Around the World in 3,000 Hours of Egocentric Video. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022. (**oral, Best Paper Finalist**)

35. C. Chen, R. Gao, P. Calamia, and K. Grauman. Visual Acoustic Matching. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022. (**oral**)

36. S. Ramakrishnan, D. Chaplot, Z. Al-Halah, J. Malik, K. Grauman. PONI: Potential Functions for ObjectGoal Navigation with Interaction-Free Learning. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022. (**oral**)

37. Z. Al-Halah, S. Ramakrishnan, and K. Grauman. Zero Experience Required: Plug & Play Modular Transfer Learning for Semantic Visual Navigation. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022.

38. M. Liu, L. Ma, K. Somasundaram, Y. Li, K. Grauman, J. Rehg, C. Li. Egocentric Activity Recognition and Localization on a 3D Map. In Proceedings of the European Conference on Computer Vision (ECCV), 2022.

39. S. Majumder and K. Grauman. Active Audio-Visual Separation of Dynamic Sound Sources. In Proceedings of the European Conference on Computer Vision (ECCV), 2022.

40. U. Mall, K. Bala, T. Berg, K. Grauman. Discovering Underground Maps from Fashion. Winter Conference on Applications of Computer Vision (WACV), 2022.

41. S. K. Ramakrishnan, T. Nagarajan, Z. Al-Halah, and K. Grauman. Environment Predictive Coding for Embodied Agents. In Proceedings of the International Conference on Learning Representations (ICLR), 2022.

42. R. Garg, R. Gao, K. Grauman. Geometry-Aware Multi-Task Learning for Binaural Audio Generation from Video. In Proceedings of the British Machine Vision Conference (BMVC), 2021. **(Oral)** [**Best Paper Award Runner Up**]

43. T. Nagarajan and K. Grauman. Shaping Embodied Agent Behavior with Activity-context Priors from Egocentric Video. In Proceedings of Advances in Neural Information Processing Systems (NeurIPS), Dec 2021. **(spotlight oral)**.

44. P. Mandikal and K. Grauman. DexVIP: Learning Dexterous Grasping with Human Hand Pose Priors from Video. In Conference on Robot Learning (CoRL), 2021.

45. W-L. Hsiao and K. Grauman. From Culture to Clothing: Discovering the World Events Behind A Century of Fashion Images. In Proceedings of the International Conference on Computer Vision (ICCV), Oct 2021 (**oral**, 3% acceptance rate).

46. S. Majumder, Z. Al-Halah, K. Grauman. Move2Hear: Active Audio-Visual Source Separation. In Proceedings of the International Conference on Computer Vision (ICCV), Oct 2021.

47. S. Purushwalkam, S. V. A. Gari, V. K. Ithapu, C. Schissler, P. Robinson, A. Gupta, K. Grauman. Audio-Visual Floorplan Reconstruction. In Proceedings of the International Conference on Computer Vision (ICCV), Oct 2021.

48. R. Girdhar and K. Grauman. Anticipative Video Transformer. In Proceedings of the International Conference on Computer Vision (ICCV), Oct 2021. **Winner of the EPIC-Kitchens CVPR'21 Action Anticipation Challenge**

49. B. Xiong, H. Fan, K. Grauman, C. Feichtenhofer. Multiview Pseudo-Labeling for Semi-supervised Learning from Video. In Proceedings of the International Conference on Computer Vision (ICCV), Oct 2021.

50. R. Gao and K. Grauman. VisualVoice: Audio-Visual Speech Separation with Cross-Modal Consistency. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), June 2021.

51. Y. Li, T. Nagarajan, B. Xiong, K. Grauman. Ego-Exo: Transferring Visual Representations from Third-person to First-person Videos. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), June 2021.

52. C. Chen, Z. Al-Halah, K. Grauman. Semantic Audio-Visual Navigation. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), June 2021.

53. H. Wu, Y. Gao, X. Guo, Z. Al-Halah, S. Rennie, K. Grauman, R. Feris. Fashion IQ: A New Dataset Towards Retrieving Images by Natural Language Feedback. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), June 2021.

54. P. Mandikal and K. Grauman. Learning Dexterous Grasping with Object-Centric Visual Affordances. In Proceedings of the International Conference on Robotics and Automation (ICRA), May 2021.

55. C. Chen, S. Majumder, Z. Al-Halah, R. Gao, S. Ramakrishnan, K. Grauman. Learning to Set Waypoints for Audio-Visual Navigation. In Proceedings of the International Conference on Learning Representations (ICLR), May 2021.

56. T. Nagarajan and K. Grauman. Learning Affordance Landscapes for Interaction Exploration in 3D Environments. In Advances in Neural Information Processing Systems (NeurIPS), Dec 2020.

57. C. Chen, U. Jain, C. Schissler, S. V. Amengual Gari, Z. Al-Halah, V. Ithapu, P. Robinson, K. Grauman. SoundSpaces: Audio-Visual Navigation in 3D Environments. In Proceedings of the European Conference on Computer Vision (ECCV), August 2020. (**spotlight**, 5% acceptance rate)

58. S. Ramakrishnan, Z. Al-Halah, K. Grauman. Occupancy Anticipation for Efficient Exploration and Navigation. In Proceedings of the European Conference on Computer Vision (ECCV), August 2020. (**spotlight**, 5% acceptance rate) **Winner of the 2020 Habitat PointNav Challenge**

59. R. Gao, C. Chen, Z. Al-Halah, C. Schissler, K. Grauman. VisualEchoes: Spatial Image Representation Learning through Echolocation. In Proceedings of the European Conference on Computer Vision (ECCV), August 2020.

60. Y-T. Hu, H. Wang, N. Ballas, K. Grauman, A. Schwing. Proposal-based Video Completion. In Proceedings of the European Conference on Computer Vision (ECCV), August 2020.

61. T. Nagarajan, Y. Li, C. Feichtenhofer, K. Grauman. Ego-Topo: Environment Affordances from Egocentric Video. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, June 2020. (**oral**, 6% acceptance rate)

62. E. Ng, D. Xiang, H. Joo, K. Grauman. You2Me: Inferring Body Pose in Egocentric Video via First and Second Person Interactions. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, June 2020. (**oral**, 6% acceptance rate)

63. W-L. Hsiao and K. Grauman. ViBE: Dressing for Diverse Body Shapes. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, June 2020. (**oral**, 6% acceptance rate)

64. K. Singh, D. Mahajan, K. Grauman, Y J. Lee, M. Feiszli, D. Ghadiyaram. Don't Judge an Object by Its Context: Learning to Overcome Contextual Bias. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, June 2020. (**oral**, 6% acceptance rate)

65. Z. Al-Halah and K. Grauman. From Paris to Berlin: Discovering Fashion Style Influences Around the World. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, June 2020.

66. R. Gao, T-H. Oh, K. Grauman, L. Torresani. Listen to Look: Action Recognition by Previewing Audio. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, June 2020.

67. T. Nagarajan, C. Feichtenhofer, K. Grauman. Grounded Human-Object Interaction Hotspots from Video. In *Proceedings of the International Conference on Computer Vision* (ICCV), Seoul, Korea, Nov 2019.

68. W-L. Hsiao, I. Katsman, C-Y. Wu, D. Parikh, K. Grauman. Fashion++: Minimal Edits for Outfit Improvement. In *Proceedings of the International Conference on Computer Vision* (ICCV), Seoul, Korea, Nov 2019.

69. R. Gao and K. Grauman. Co-Separating Sounds of Visual Objects. In *Proceedings of the International Conference on Computer Vision* (ICCV), Seoul, Korea, Nov 2019.

70. R. Gao and K. Grauman. 2.5D Visual Sound. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Long Beach, CA, June 2019. (**oral**, 5% acceptance rate) [**Best Paper Finalist**]

71. Z. Yang, J. Pan, L. Luo, X. Zhou, K. Grauman, and Q. Huang. Extreme Relative Pose Estimation for RGB-D Scans via Scene Completion. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Long Beach, CA, June 2019. (**oral**, 5% acceptance rate)

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74. A. Yu and K. Grauman. Thinking Outside the Pool: Active Training Image Creation for Relative Attributes. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Long Beach, CA, June 2019.

75. Y. Guo, H. Shi, A. Kumar, K. Grauman, T. Rosing, and R. Feris. SpotTune: Transfer Learning through Adaptive Fine-tuning. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Long Beach, CA, June 2019.

76. R. Gao, R. Feris, and K. Grauman. Learning to Separate Object Sounds by Watching Unlabeled Video. In *Proceedings of the European Conference on Computer Vision* (ECCV), Munich, Germany, Sept 2018. (**oral**, 2% acceptance rate)

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80. S. Ramakrishnan and K. Grauman. Sidekick Policy Learning for Active Visual Exploration. In *Proceedings of the European Conference on Computer Vision* (ECCV), Munich, Germany, Sept 2018.

81. K. Zhang, K. Grauman, F. Sha. Retrospective Encoders for Video Summarization. In *Proceedings of the European Conference on Computer Vision* (ECCV), Munich, Germany, Sept 2018.

82. A. Stangl, E. Kothari, S. Jain, T. Yeh, K. Grauman, D. Gurari. BrowseWithMe: An Online Clothes Shopping Assistant for People with Visual Impairments. In *Proceedings of The 20th International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS), Galway, Ireland, Oct 2018.

83. C-J. Yang, K. Grauman, and D. Gurari. Visual Question Answer Diversity. In *Proceedings of the Sixth AAAI Conference on Human Computation and Crowdsourcing* (HCOMP), Zurich, July 2018.

84. R. Gao, B. Xiong, and K. Grauman. Im2Flow: Motion Hallucination from Static Images for Action Recognition. In *Proceedings of IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Salt Lake City, June 2018. (**oral**, 2% acceptance rate)

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89. S. Chen and K. Grauman. Compare and Contrast: Learning Prominent Visual Differences. In *Proceedings of IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Salt Lake City, June 2018.

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91. 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.

92. 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.

93. 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.

94. 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.

95. 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.

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100. 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**]

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102. 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.

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130. 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.

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133. 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.

134. 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)

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139. 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.

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162. 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.

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166. 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)

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170. 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.

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172. 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.

173. 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.

174. 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.

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176. 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.

177. 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)

178. 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)

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180. 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.

181. 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)

182. 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.

183. 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.

184. 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.

185. 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)

186. 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**)

187. 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)

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190. 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.

191. 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.

192. 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.

193. 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.

194. 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.

195. 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.

ADVISING ACTIVITY

Students' degrees completed under my supervision

- Changan Chen, Ph.D., 5/2024

  Thesis: "4D Audio-Visual Learning: A Visual Perspective of Sound Propagation and Production"

- Santhosh Kumar Ramakrishnan, Ph.D., 8/2023

  Thesis: "Predictive scene representations for embodied visual search"

- Tushar Nagarajan, Ph.D., 11/2022

  Thesis: "Learning affordance, environment and interaction representations by watching people in video"

- Wei-Lin (Kimberly) Hsiao, Ph.D., 8/2021

  Thesis: "Computational Fashion Understanding"

- Ruohan Gao, Ph.D., 1/2021

  Thesis: "Look and Listen: From Semantic to Spatial Audio-Visual Perception"

- Yu-Chuan Su, Ph.D., 8/2019

  Thesis: "Learning for 360 Video Compression, Recognition, and Display"

- Bo Xiong, Ph.D., 8/2019

  Thesis: "Learning to Compose Photos and Videos from Passive Cameras"

- Aron Yu, Ph.D., 5/2019

  Thesis: "Fine-Grained Visual Comparisons"

- Evonne Ng, B.S. Turing Scholar Honors Thesis, 5/2019

  Thesis: "You2Me: Inferring Body Pose in Egocentric Video via First and Second Person Interactions"

- Andrew Li, B.S. Turing Scholar Honors Thesis, 5/2019

  Thesis: "A3P: Audio as a Preview for Efficient Activity Recognition in Video"

- Saket Sadani, B.S. Turing Scholar Honors Thesis, 5/2019

  Thesis: "Semantic Jitter for Learning Binary Visual Attributes"

- 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 postdoctoral advisees

- Ziad Al-Halah (2019-2022)
- Danna Gurari (2015-2017)
- Lu Zheng (2012-2013)

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 (2013-2019)
- Bo Xiong (2013-2019)
- Yu-Chuan Su (2014-2019)
- Ruohan Gao (2016-2021)
- Kimberly (Wei-Lin) Hsiao (2017-2021)
- Tushar Nagarajan (2018-2022)
- Santhosh Kumar Ramakrishnan (2018-2023)
- Changan Chen (2019-2024)
- Priyanka Mandikal (2019-)
- Sagnik Majumder (2021-)
- Ashutosh Kumar (2021-)
- Sherry Xue (2022-)
- Arjun Somayazulu (2022-)
- Romy Luo (2022-)