Cordelia Schmid – Curriculum Vitae

INRIA Grenoble, LEAR project-team, LJK lab
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Education


• M.S., Computer Science, University of Karlsruhe, July 1992, with distinction “sehr gut”.

Awards and distinctions

• Longuet-Higgins prize for fundamental contributions in computer vision that have withstood the test of time, 2014.

• ERC advanced grant ALLEGRO, 2013.

• IEEE Fellow, 2012.

• Longuet-Higgins prize for fundamental contributions in computer vision that have withstood the test of time, 2006.


• Winner of TRECVID 2012 & 2013 multi-media event detection competition.

• Winner of TRECVID 2008 video copy detection competition.

• Winner of PASCAL Visual Object Classes Challenge Competitions, 2005–08, 10 & 11.

• Best paper award for the 2009 edition of the Pattern Recognition journal.

• Best poster prize, honorable mention, IEEE Conf. on Computer Vision and Pattern Recognition, 2008.


• Best paper award, ISPRS Conf. on Automatic Extraction of GIS Objects from Digital Imagery, 1999.

Employment

• Research Director, INRIA, second class 2004 - 2008, first class 2008—.

• Head of the LEAR INRIA project-team, 2003—.


• Research Assistant, Oxford University, Robotics Research Group, 1996 - 1997.

• Ph.D. Fellowship, Marie Curie EU grant and INRIA grant, 1993 - 1996.
Professional activities

Editor-in-Chief:  • International Journal of Computer Vision (2013—).


General Chair:  • IEEE Conference on Computer Vision and Pattern Recognition, 2015

Program Chair:  • European Conference on Computer, 2012.
• IEEE Conference on Computer Vision and Pattern Recognition, 2005.

Workshop Chair:  • ALLEGRO Workshop on Weakly Supervised Learning and Video Recognition, Grenoble, 2014.
• CVPR'09 Workshop on Feature Detectors and Descriptors, 2009.
• 1st Int. Workshop on Video, Barcelona, Spain, 2009.
• 4th Int. Workshop on Object Recognition, Como, Italy, 2008.
• 3rd Int. Workshop on Object Recognition, Siracusa, Italy, 2006.
• 2nd Int. Workshop on Object Recognition, Taormina, Italy, 2004.
• 1st Int. Workshop on Object Recognition, Taormina, Italy, 2003.


Program committee member for most major computer vision as well as several learning conferences (NIPS, ICML) and many workshops. Reviewer for the major computer vision journals. Member of several best paper prize selection committees.

Supervision:  • 24 PhD students.
• 12 postdocs.
• 10 engineers.
Teaching:

- Object recognition and computer vision, Master-2 MVA, ENS, 10 hours per year (equivalent 15hTD), 2008–2014.
- Object recognition, Master-2 Computer Science, Grenoble University, 10 hours per year (equivalent 15hTD), 2001-04, 07-14.
- Image databases, 3rd year ENSIMAG, 12 hours per year, 2002-03.
- Object oriented software development, 2nd year ENSIMAG, 40 hours per year, 2001-03.
- Analysis of algorithms, 2nd year ENSIMAG and ESISAR, 80 hours per year, 1998-01.

Research evaluation:

- Member of the evaluation panel for ERC starting grants, 2014.
- Member of the PAMI-TC awards committee, 2013—.
- Member of the “conseil d’AERES” (Agence d’évaluation de la recherche et de l’enseignement supérieur), 2007 - 2011.
- Member of the evaluation committee for audiovisual and multimedia projects of Agence National de la Recherche (ANR), 2006 & 2007.
- Reviewer for ERC grants, European projects, VENI (Netherlands), FACR (Québec), ANR (France), ANVAR (France), Israel Science Foundation, Austrian Science Fund, Vienna Science and Technology Fund, Czech Science Foundation.
- Reviewer and examiner for many PhD and HDR theses.

INRIA:

- Member of the “bureau du comité de projet”, INRIA Grenoble, 2007–2011.
- Member of the “commission d’évaluation”, INRIA, 2002–2011.
- Member of many INRIA recruiting committees, 2002–2011.
- Member of the “commission emplois scientifiques”, INRIA Grenoble, 2002–06.
Grants:

- Industrial contract with MBDA on pose and object identification, 2010-2013.
- Prototype for an image search engine, French Grant “GRAVIT”, 2007-08.
- INRIA associated team with CMU, UIUC and Willow/INRIA, 2007-09.
- Industrial contract with MBDA on object recognition and detection, 2007-10.
- Cognitive-level annotation using latent statistical structure (CLASS), European Grant, 2006-09.
- Integrating knowledge, semantics and content for user-centered intelligent media services (aceMedia), European IP Grant, 2004-07.
- Modèles visuels et statistiques pour la reconnaissance de classes d’images, French Grant “ACI masse de données”, 2003-06.
- EADS postdoctoral grant on shape description, 2006.
- Industrial contract with MBDA on object detection and tracking, 2005-06.
- CNRS/UIUC Grant with Professor J. Ponce, 2000-06.
- Learning for Adaptable Visual Assistants (LAVA), EU IST Grant, 2002-05.
- Video Browsing, Exploration and Structuring (VIBES), European Grant, FET, 2000-04.
- Global Architecture for Indexing and Retrieval of Multimedia Documents (AGIR), French Grant, RNT, 1999-01.
- Industrial contract with Aérospatiale on matching of aerial images and missile images, 1999-01.
- Industrial contract with Alcatel on the development of a prototype for interactive video navigation, 1996-98.
Transfer :

- Co-founder and scientific advisor of the Start-Up MilPix. MilPix builds on and licences LEAR’s technology for image search, in particular software for image description and large scale image indexing.
- Software distributed for interest points detection and description, shape description, face and human detection as well as spatio-temporal features, see http://lear.inrialpes.fr/software.
- Participation in producing several datasets for evaluating recognition algorithms, namely for image search, action recognition and recognition of shape-based object classes, see http://lear.inrialpes.fr/data.

Dissemination :

- Presentation on large-scale image search at “Journée d’échanges et de formation”, LERTI, INRIA, Grenoble, September 2010.
- Panelist on Future Directions of Computer Vision at IEEE CVPR 2008.
- Presentation on image search at the INTECH seminar “recherche par le contenu de documents multi-médias”, Grenoble, 2002.
- Presentation on invariant image description at the INRIA-Industry seminar, Rocquencourt, 2001.
- Demonstration of the image retrieval software, CEBIT’96.
Invited presentations

Invited conference and workshop presentations

- Invited speaker at the ERC Workshop on Research Data Management and Sharing, September 2014.

- Keynote speaker at Annual Workshop of the Austrian Association for Pattern Recognition, IST Austria, May 2014.

- Keynote speaker at Netherlands Conference on Computer Vision, April 2014.

- Invited speaker at First French-German Mathematical Image Analysis Conference, Paris, January 2014.

- Keynote talk at The First International Workshop on Action Recognition with a Large Number of Classes, in conjunction with ICCV ’13, Sydney, Australia, December 2013.

- ICCV area chair meeting workshop, Oxford University, August 2013.


- Invited speaker at Second international workshop on visual analysis and geo-localizaton of large-scale imagery in conjunction with CVPR’13, June 2013.

- CVPR area chair meeting workshop, USC, February 2013.

- Keynote speaker at GdR ISIS, Le Touquet, November 2012.

- First international workshop on visual analysis and geo-localizaton of large-scale imagery in conjunction with ECCV’12, Florence, October 2012.


- Keynote speaker at ACM International Conference on Multimedia Retrieval (ICMR), Hong Kong, June 2012.

- Workshop on Large Scale Multimedia Search, Los Angeles, January 2012.

- NIPS satellite WiML Workshop, Granada, December 2011.


- Frontiers in Computer Vision Workshop, MIT, August 2011.

- Keynote speaker at Compression et représentation des signaux audiovisuels (Coresa 2010), Lyon, October 2010.

- Oxford vision workshop, July 2010.


- CVPR area chair meeting workshop, University of Maryland, February 2010.

- International Workshop on Recent Trends in Computer Vision, Kyoto, Japan, June 2009.

- International Workshop on Video, Barcelona, Spain, May 2009.

• Keynote speaker at BMVC’08, Leeds, UK, September 2008.

• ECCV area chair symposium, Paris, June 2008.


• 4th International Workshop on Object Categorization, in conjunction with ICCV’07, Rio de Janeiro, Brazil, October 2007.


• 2nd Beyond Patches Workshop in conjunction with CVPR’07, June 2007.

• Annual Workshop of the Austrian Association for Pattern Recognition (OEAGM’07), Schloss Krumbach, Austria, May 2007.

• CVPR area chair meeting workshop, Pittsburgh, USA, March 2007.

• LIAMA’s 10th Anniversary Workshop, Beijing, China, January 2007.

• International Workshop on Object Recognition, Syracuse, Italy, September 2006.


• Empirical Inference Symposium, Tuebingen, August 2005.

• ICCV Area Chair Meeting Workshop, Leuven, June 2005.

• MSRI workshop on Visual Recognition, Berkeley, USA, March 2005.

• CVPR area chair meeting workshop, Los Angeles, February 2005.

• International Workshop on Object Recognition, Taomina, Sicily, Italy, October 2004.

• PASCAL Workshop on Pattern Recognition and Machine Learning, Grenoble, May 2004.

• Cognitive Computer Vision Colloquium, Prague, January 2004.

• International Workshop on Object Recognition, Taomina, Sicily, Italy, September 2003.

• Workshop on Computational Vision, Rosenon, Sweden, July 2003.

• The Learning Workshop, Snowbird, Utah, April 2003.

• The 4th Sino-Franco Workshop on Web Technologies, Taipei, Taiwan, March 2003.

• Workshop at the area chair meeting, Lund, February 2002.

• Dagstuhl-Seminar on Content-Based Image and Video Retrieval, Dagstuhl, January 2002.


• The Learning Workshop, Snowbird, Utah, April 2001.
• Beckman Institute vision workshop, Urbana-Champaign, February 2000.

Tutorials and courses

• Tutorial on image search and classification at the INRIA Visual Recognition and Machine Learning Summer School, Paris, July 2013.

• Tutorial on modern features at ECCV 2012, Florence, October 2012.

• Tutorial on image search and classification at the INRIA Visual Recognition and Machine Learning Summer School, Grenoble, July 2012.


• Lecture on local features and large scale search at the 3e cycle romand d’informatique, Geneva, Switzerland, February 2011.

• Tutorial on image features, search and classification at the Winter Research School at ENS Lyon, January 2011.

• Tutorial on image search and classification at the INRIA Visual Recognition and Machine Learning Summer School, Grenoble, July 2010.

• Tutorial on images features and object recognition, Lotus Hill Summer School on Computer Vision, Ezhou, China, July 2008.


• Tutorial on invariant local features, AERFAI Summer School on Action and Object Classification Techniques in Digital Images, Granada, Spain, June 2006.

• Course on local descriptor and recognition, MIT, Boston, USA, December 2005.

• Course on local features and recognition, Oulu University, May 2005.

• Short-course on local features, IEEE Conference on Computer Vision and Pattern Recognition, June 2003.

• Tutorial on recognition and image retrieval, Summer School Vision and Robotics, Toulouse, July 2002.

• Tutorial on recognition and image retrieval, Summer School Vision and Robotics, Grenoble, July 2000.

Invited presentations at universities and companies

• Seminar at Univ. Edinburgh, July 2014.

• Seminar at MPI, Tübingen, April 2014.

• Seminar at WILLOW retreat, Bandol, June 2013.

• Seminar at UCF, Orlando, May 2013.

• Seminar at MPI, Tübingen, January 2013.
• Seminar at University of Berkeley, December 2012.
• Seminar at New York University, May 2012.
• Seminar at Google, Zürich, May 2012.
• Seminar at ETHZ, Zürich, May 2012.
• Seminar at MSR Cambridge, April 2012.
• Seminar at MPI, Tübingen, April 2012.
• Colloquium J. Morgenstern, Sophia-Antipolis, December 2011.
• Seminar at New York University, July 2010.
• Seminar at CMU, Pittsburgh, September 2009.
• Seminar at University of Texas at Austin, April 2009.
• Seminar at Oxford University, March 2009.
• Seminar at ETHZ, Zürich, February 2009.
• Seminar at Max Planck Institut Saarbrücken, Germany, September 2008.
• Seminar at TU München, Germany, July 2008.
• Seminar at LIAMA, Beijing, China, July 2008.
• Seminar at the Advanced Computer Vision Company, Vienna, Austria, May 2007.
• Seminar at ENS Ulm, Paris, France, October 2006.
• Seminar at Carnegie Mellon University, Pittsburg, August 2006.
• Seminar at Microsoft Research, Seattle, August 2006.
• Seminar at Xerox, Grenoble, June 2006.
• Seminar at ETH Zurich, April 2006.
• Seminar at UIUC, Champaign, February 2006.
• Seminar at ENS Ulm, Paris, France, October 2005.
• Seminar at University of Liege, Belgium, February 2005.
• Seminar at University of Illinois, Urbana-Champaign, January 2005.
• Seminar at Max Planck Institut Tuebingen, Germany, December 2004.
• Vision Seminar at Berkeley University, April 2004.
• Presentation at Toyota, Tokyo, Japan, May 2003.
• Vision Seminar at University of Illinois, Urbana-Champaign, October 2002.
• Vision Seminar at University of Illinois, Urbana-Champaign, October 2001.
• Vision Seminar at Berkeley University, USA, January 2000.
Publications

The two main journals of computer vision are the International Journal on Computer Vision (IJCV) and the IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI) with acceptance rates below 30%. The three main conferences are the IEEE International Conference on Computer Vision (ICCV), the IEEE Conference on Computer Vision and Pattern Recognition (CVPR) and the European Conference on Computer Vision (ECCV). These three conferences are very selective—in general less than 25% of the articles submitted are accepted—and their proceedings play a role which is as important as international journals.

According to Google Scholar my h-index is 72 and the total number of citations for my publications is more than 39000. The number of citations are indicated in the following for publications with at least 20 citations. Most of my papers are available on the LEAR publication server at http://lear.inrialpes.fr/pubs.

Journal articles


**Edited books**


**Book chapters**


Refereed international conferences


**Refereed national conferences**


**Other publications**


