

Mihir Jain

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Education

- **University of Rennes 1** **Rennes, France**
PhD in Computer Science *Feb 2011 - Apr 2014*
Dissertation Topic: Enhanced Image and Video Representation for Visual Recognition
Advisors: Dr. Hervé Jégou, Dr. Patrick Bouthemy and Dr. Patrick Gros
- **International Institute of Information Technology** **Hyderabad, India**
MS by Research in Computer Science *Jul 2007 - May 2010*
Dissertation Topic: Towards Efficient and Scalable Visual Processing in Images and Videos
Advisor: Dr. C. V. Jawahar
- **Dhirubhai Ambani Institute of ICT** **Gandhinagar, India**
Bachelor of Technology in Information and Communication Technology *Jul 2003 - May 2007*

Experience

- **Qualcomm Research** **Amsterdam, Netherlands**
Senior Machine Learning Researcher *Jul 2016 - till date*
Research area: Deep Learning, Machine Learning and Computer Vision
- **QUVA Lab and Informatics Institute, University of Amsterdam** **Amsterdam, Netherlands**
Postdoctoral researcher *May 2014 - Aug 2015*
Advisor: Dr. Cees Snoek
- **TEXMEX team, INRIA** **Rennes, France**
Graduate researcher *Feb 2011 - Apr 2014*
Advisors: Dr. Hervé Jégou, Dr. Patrick Bouthemy and Dr. Patrick Gros
- **Informatics Institute, University of Amsterdam** **Amsterdam, Netherlands**
Visiting researcher *Jun 2013 - Sep 2013*
Advisors: Dr. Cees Snoek and Dr. Jan Van Gemert
- **The LNM Institute of Information Technology** **Jaipur, India**
Lecturer, Computer Science *Jul 2010 - Jan 2011*
- **Center for Visual Information Technology (CVIT)** **Hyderabad, India**
Research assistant *Jan 2008 - May 2010*
Advisor: Dr C.V. Jawahar
- **Visual Geometry Group (VGG), University of Oxford** **Oxford, UK**
Visiting research student *Summers of 2008, 2009*
Advisor: Dr. Andrew Zisserman

Publications

- **Tubelets: Unsupervised action proposals from spatiotemporal super-voxels** **Arxiv'16**
M. Jain, J. V. Gemert, H. Jégou, P. Bouthemy and C. Snoek. Under submission to International Journal on Computer Vision.
- **VideoLSTM Convolves, Attends and Flows for Action Recognition** **Arxiv'16**
Z. Li, E. Gavves, M. Jain and C. Snoek.

- **Improved motion description for action classification** FICT'16
M. Jain, H. Jégou and P. Bouthemy. *Frontiers in ICT*.
- **Objects2action: Classifying and localizing actions without any video example** ICCV'15
M. Jain, J. V. Gemert, T. Mensink and C. Snoek. *IEEE International Conference on Computer Vision*.
- **APT: Action localization Proposals from dense Trajectories** BMVC'15
J. V. Gemert, M. Jain, E. Gati and C. Snoek. *British Machine Vision Conference*.
- **What do 15,000 object categories tell us about classifying and localizing actions?** CVPR'15
M. Jain, J. V. Gemert and C. Snoek. *IEEE Conference on Computer Vision and Pattern Recognition*.
- **Action localization by tubelets from motion** CVPR'14
M. Jain, J. V. Gemert, H. Jégou, P. Bouthemy and C. Snoek. *IEEE Conference on Computer Vision and Pattern Recognition*.
- **Better exploiting motion for better action recognition** CVPR'13
M. Jain, H. Jégou and P. Bouthemy. *IEEE Conference on Computer Vision and Pattern Recognition*.
- **Hamming Embedding similarity-based image classification** ACM ICMR'12
M. Jain, R. Benmokhtar, H. Jégou and P. Gros. *ACM International Conference on Multimedia Retrieval*.
- **Asymmetric Hamming Embedding** ACM MM'11
M. Jain, H. Jégou and P. Gros. *ACM Multimedia*.
- **Characteristic pattern discovery in videos** ICVGIP'10
M. Jain and C. V. Jawahar. *Indian Conference on Computer Vision, Graphics and Image Processing*.
- **Example based video filters** CIVR'09
M. Jain, S. Vempati, C. Pulla and C. V. Jawahar. *ACM International Conference on Image and Video Retrieval*.
- **Eye detection using line edge map template** VISAPP'08
M. Jain, S. K. Mitra, N. Jotwani. *International Conference on Computer Vision Theory and Applications*.

Computer vision competitions

- **University of Amsterdam at THUMOS Challenge 2015** CVPR'15 Workshop
M. Jain, J. V. Gemert, P. Mettes and C. Snoek. *Workshop at European Conference of Computer Vision*.
- **University of Amsterdam at THUMOS Challenge 2014** ECCV'14 Workshop
M. Jain, J. V. Gemert and C. Snoek. *Workshop at European Conference of Computer Vision*.
Won the action classification challenge.
- **MediaMill at TRECVID 2013** TRECVID'13
C. Snoek, K. V. Sande, D. Fontijne, A. Habibian, M. Jain, S. Kordumova, Z. Li, M. Mazloom, S. L. Pintea, R. Tao, D. Koelma and A. Smeulder. *TREC Video Retrieval Workshop organized by NIST*.
- **Oxford/IIIT TRECVID 2009 - Notebook paper** TRECVID'09
S. Vempati, M. Jain, O. Parkhi, C. V. Jawahar, A. Vedaldi, M. Marszalek and A. Zisserman. *TREC Video Retrieval Workshop organized by NIST*.
- **Oxford/IIIT TRECVID 2008 - Notebook paper** TRECVID'08
J. Philbin, M. M. Jimenez, S. Srinivasan, A. Zisserman, M. Jain, S. Vempati, P. Sankar and C. V. Jawahar. *TREC Video Retrieval Workshop organized by NIST*.

Professional services

- Conference reviewer: NIPS'16, ICCV'15, CVPR'15, ICVGIP'14
- Journal reviewer: IJCV, T-IP, CVIU, PR, T-CSVT

References

Available upon request