

# Abhishek Sharma

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Graduate Student  
Department of Computer Science  
University of Maryland  
College Park, USA

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## Research Interest

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I am interested in computer vision and machine learning with a focus on Learning representations using Deep learning and multiple views of data, Biometrics, Scene understanding, Manifold learning, Cross-media retrieval, Object detection and recognition and Statistical pattern recognition.

## Education

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Aug'08 - Aug'10  
Aug'10 - Present

*B.Tech*, Department of Electrical Engineering, IIT Roorkee, CGPA = 7.6/10.0  
*PhD*, Department of Computer Science, University of Maryland, College Park, GPA = 3.83/4.00

## Professional Experience

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Dec13-June14  
May13-Aug13  
Jun12 - Oct'12  
Aug'10 - Dec'10  
May'09 - Aug'09  
Jun'08 - Oct'08

*Research Intern*, Mitsubishi Electric Research Lab, Cambridge with Dr. Oncel Tuzel  
*Research Intern*, Microsoft Research Lab, Redmond with Dr. Trishul Chilimbi  
*Research Intern*, Toyota Technological Institute Chicago with Dr. Raquel Urtasun.  
*Teaching Assistant*, CMSC102 - Java Programming.  
*Research Intern*, Defense Research and Development Organization, Dehradun.  
*Research Intern*, Mathematics and Computer, Victoria University with Dr. Hao Shi.

## Awards and Achievements

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- Recipient of Dean's Fellowship (\$5000) for two years from The Graduate School, University of Maryland, College Park.
- Recipient of Summer Research Scholarship from Victoria University, Melbourne, Australia in 2008.
- First prize winner of *National level paper presentation contest* for the paper "Pose-Invariant Face Recognition using Hybrid-Eigenfaces" held at Electrical Engineering Department, IIT Roorkee in March 2009.
- Third prize winner of *National level paper presentation contest* for the paper "String Theory and Compactification" held at Physics Department, IIT Roorkee in March 2007.
- Topper of a six-month-certificate German language course organized at the Department of Humanities and Social Sciences, IIT Roorkee.
- Class Representative from junior to senior year in my undergraduate program at IIT Roorkee.

## Publication

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### *Journal*

1. **Abhishek Sharma**, Murad Al-Haj, Jonghyun Choi, Larry S. Davis and David W. Jacobs, "Robust Pose Invariant Face Recognition using Coupled Latent Space Discriminant Analysis", *Computer Vision and Image Understanding* 116(11), 1095-1110, 2012.
2. Pushkar Tripathi, **Abhishek Sharma**, G.N. Pillai and Indira Gupta, "Accurate Fault Classification and Section Identification Scheme in TCSC Compensated Transmission Line using SVM", *World Academy of Science and Technology*, Vol 60, 2011.
3. **Abhishek Sharma**, Anamika Dubey, Pushkar Tripathi and Vinod Kumar, "Pose invariant virtual classifiers from single training image using novel hybrid-eigenfaces", *Neurocomputing* 73 (10), 1868-1880, 2010.
4. **Abhishek Sharma**, Anamika dubey, A.N. Jagannatha and R.S. Anand, "Pose invariant face recognition based on hybrid-global linear regression", *Neural computing & applications* 19 (8), 1227-1235, 2010.
5. **Abhishek Sharma** and Hao Shi, "Innovative Rated-Resource Peer-to-Peer Network", *Int. Journal of Computer Networks and Communication* 2 (2), 2010.

## *Peer reviewed conferences*

1. **Abhishek Sharma**, Oncel Tuzel, David W Jacobs, “-----”, *submitted IEEE CVPR 2015*
2. **Abhishek Sharma**, Oncel Tuzel, Ming Yu Liu, “Recursive Context Propagation Network for Semantic Scene Labeling”, NIPS 2014.
3. Behjat Siddiqui, Brandyn White, **Abhishek Sharma**, Larry S Davis, “Complex Descriptive Query Based Image Retrieval”, ACM International Conference on Media Retrieval 2014.
4. Sanja Fidler, **Abhishek Sharma** and Racquel Urtasun, “A Sentence is Worth a Thousand Pixels”, IEEE CVPR 2013.
5. **Abhishek Sharma**, Abhishek Kumar, Hal Daume III and David W. Jacobs, "Generalized Multiview Analysis: A Discriminative Latent Space", IEEE CVPR 2012.
6. **Abhishek Sharma** and David W Jacobs, " Bypassing synthesis: PLS for face recognition with pose, low-resolution and sketch", IEEE CVPR 2011.
7. Anamika Dubey and **Abhishek Sharma**, "Multimodal Face Recognition using Hybrid Correlation Filters", NCVPRIPG, Jaipur, India, 2010.
8. **Abhishek Sharma** and Anamika Dubey, "Facial Expression Recognition using Virtual Neutral Image Synthesis", NCVPRIPG, Jaipur, India, 2010.

## *Workshops*

1. Angjoo Kanzawa, Abhishek Sharma, “Locally Scale Invariant Convolution Neural Networks”, NIPS Deep Learning workshop, 2014.
2. Jonghyun Choi, **Abhishek Sharma**, Larry S Davis and David W Jacobs, "Data insufficiency in sketch versus photo face recognition", IEEE CVPR Biometrics workshop, 2012.

## References

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*Provided on request*