

# MaheenRashid

## contact

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## programming

PyTorch/Torch,  
Tensorflow, Caffe,  
Python, Java, C/C++,  
MATLAB, LaTeX, Bash  
Experience in: Sci-Kit  
Learn, OpenCV,  
OpenGL

## course work

Visual Recognition  
Through Deep  
Learning,  
Computer Architecture,  
Machine Learning,  
Computer Vision,  
Learning and Geometry  
Based Methods in  
Computer Vision

## services

Reviewer - ACM TIST,  
CVPR 2018,  
Dean's Advisory  
Committee Member,  
GSA Representative,  
Lead - Women in CS

## volunteer work

The Citizens  
Foundation Rahbar  
Program,  
Son-Rise Autism  
Program,  
Amnesty International

## languages

English  
Urdu

## education

2015–Now **PhD Student** in Computer Science Davis, CA  
*University of California at Davis*  
2012–2014 **Masters** of Robotics Pittsburgh, PA  
*Carnegie Mellon University*  
2007–2011 **B.Sc. (Hons)** in Computer Science Lahore, Pakistan  
*Lahore University of Management Sciences*

## experience

Sep '18  
-Dec '18 **RPL. KTH Royal Institute of Technology** Stockholm, Sweden  
*Visiting Student Researcher under Dr. Hedvig Kjellstrom*

- Researching graph network based approach to weakly supervised action localization.
- Understanding EquiFACS correlations with modalities of horse emotion

Sep '15  
-Present **Computer Science Department. UC Davis** Davis, CA  
*Graduate Student under Dr. Yong Jae Lee*

- Researching automatic pain detection in horses as part of large interdisciplinary project. Involves data collection and annotation, facial action unit coding, and deep learning on horse expressions.
- Under Review for WACV 2019. Published in MB 2018, CVPR 2017. Developed in Darknet, Torch, Pytorch, and Python.

July '17  
-Sep '17 **Flickr Vision/ML Team. Yahoo** San Francisco, CA  
*Research Intern*

- Improved face detection accuracy for personal photo collections. Developed 3D informed spatial transformer network for face recognition. Developed frontalization and occlusion methods for assisting in face recognition.

Aug '14  
-Aug '15 **Mint Solutions** Kopavogur, Iceland  
*Software Developer (Intern from Aug '14-Dec '14)*

- Improved the core machine learning engine of MedEye - a pill scanner that uses computer vision to prevent drug errors.
- Deployed on Medeye devices in the field. Developed in Python, and MySQL.

Sep '12  
-May '14 **Robotics Institute. Carnegie Mellon University** Pittsburgh, PA  
*Graduate Student under Dr. Martial Hebert*

- Researched indoor scene understanding with 3D models.
- Published in 3DV 2014 and IJCV 2014. Developed in C/C++ and MATLAB.
- Funded by Fulbright Scholarship

## selected publications

**Facial Action Unit Detection Using Capsules.** Maheen Rashid, Yong Jae Lee. Under Review WACV, 2019  
**What Should I Annotate? An automatic tool for finding video segments for EquiFACS annotation.** Maheen Rashid et al. Measuring Behavior, 2018  
**Single-View Reconstruction using Orthogonal Line-pairs.** Aamer Zaheer, Maheen Rashid, Muhammad A Riaz, Sohaib Khan. Computer Vision Image and Understanding, 2018  
**Interspecies Knowledge Transfer for Facial Keypoint Detection.** Maheen Rashid, Xiuye Gu, Yong Jae Lee. Computer Vision Pattern Recognition, 2017  
**Detailed 3D Model Driven Single View Scene Understanding.** Maheen Rashid, Martial Hebert. 3D Vision, 2014  
**3DNN: Viewpoint Invariant 3D Geometry Matching for Scene Understanding.** Scott Satkin, Maheen Rashid, Jason Lin, Martial Hebert. International Journal of Computer Vision, 2014  
**Shape From Angle Regularity.** Aamer Zaheer, Maheen Rashid, Sohaib Khan. European Conference on Computer Vision, 2012