

# 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

## honors

Keller Pathway Fellow,  
Outstanding Receiver  
CVPR 2019,  
Fulbright Scholar

## services

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

## languages

English  
Urdu

## education

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

## experience

Sep '18 -Dec '18	<b>RPL. KTH Royal Institute of Technology</b> <i>Visiting Student Researcher under Dr. Hedvig Kjellstrom</i>	Stockholm, Sweden
	<ul style="list-style-type: none"><li>Developed graph network based approach to weakly supervised action localization. Under Review.</li><li>Understanding EquiFACS correlations with modalities of horse emotion.</li></ul>	
Sep '15 -Present	<b>Computer Science Department. UC Davis</b> <i>Graduate Student under Dr. Yong Jae Lee</i>	Davis, CA
	<ul style="list-style-type: none"><li>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.</li><li>Published in MB 2018, CVPR 2017. Developed in Darknet, Torch, Pytorch, and Python.</li></ul>	
July '17 -Sep '17	<b>Flickr Vision/ML Team. Yahoo</b> <i>Research Intern</i>	San Francisco, CA
	<ul style="list-style-type: none"><li>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.</li></ul>	
Aug '14 -Aug '15	<b>Mint Solutions</b> <i>Software Developer (Intern from Aug '14-Dec '14)</i>	Kopavogur, Iceland
	<ul style="list-style-type: none"><li>Improved the core machine learning engine of MedEye - a pill scanner that uses computer vision to prevent drug errors.</li><li>Deployed on Medeye devices in the field. Developed in Python, and MySQL.</li></ul>	
Sep '12 -May '14	<b>Robotics Institute. Carnegie Mellon University</b> <i>Graduate Student under Dr. Martial Hebert</i>	Pittsburgh, PA
	<ul style="list-style-type: none"><li>Researched indoor scene understanding with 3D models.</li><li>Published in 3DV 2014 and IJCV 2014. Developed in C/C++ and MATLAB.</li></ul>	

## selected publications

**Action Graphs: Weakly Supervised Action Localization with Graph Convolution Networks.** Maheen Rashid, Hedvig Kjellström, Yong Jae Lee. Preprint, 2019

**Facial Action Unit Detection Using Capsules.** Maheen Rashid, Yong Jae Lee. Preprint, 2018

**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