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, Oustanding Reveiwer 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 **PhD Candidate** 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

- Developed graph network based approach to weakly supervised action localization. Published in WACV 2020.
- 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.
- 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.

selected publications

Action Graphs: Weakly Supervised Action Localization with Graph Convolution Networks. Maheen Rashid, Hedvig Kjellström, Yong Jae Lee. WACV, 2020

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