Sharif Amit Kamran

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EDUCATION

PhD. in Computer Science and Engineering	**CGPA**: 3.5 / 4.0
University of Nevada, Reno	Aug 2019 – Present
Bsc. in Computer Science and Engineering	**CGPA**: 3.45 / 4.0
BRAC University, Bangladesh	Jan 2013 – Apr 2017

SELECTED PUBLICATIONS

- Improving Robustness using Joint Attention Network For Detecting Retinal Degeneration From Optical Coherence Tomography Images in *27th International Conference on Image Processing 2020 (ICIP)*.
- A High Throughput Machine-Learning Driven Analysis of Ca 2+ Spatio-temporal Maps, 2020, in *Cell Calcium, 91*, p.102260
- Attention2AngioGAN: Synthesizing Fluorescein Angiography from Retinal Fundus Images using Generative Adversarial Networks in *25th International Conference on Pattern Recognition (ICPR)*.
    ** For full list of publications: **(Link)**

WORK EXPERIENCE

Graduate Research Assistant, University of Nevada, Reno	Aug 2019 – Present
Department of Computer Science and UNR school of Medicine	
Co-Founder, Bengali.AI	Apr 2018 – Present
Dhaka, Bangladesh	
Mentor, Research & Engineering Apprenticeship Program (REAP)	Jun 2020 – Aug 2020
US Army Educational Outreach Program	
Researcher, Center for Cognitive Skill Enhancement	May 2017 – Jun 2019
Independent University Bangladesh (IUB), Dhaka, Bangladesh.	

PROJECTS

Retinal Image Synthesis using Generative Adversarial Networks
- Implemented an attention-based generative adversarial networks for synthesizing Fluroscien Angiography from Retinal Fundus Photography.

Calcium ST-Maps Generation, Denoising and Segmentation using deep learning
- Created a pipeline for Ca2+ spatio-temporal map generation, denoising and segmentation using deep learning.

Traffic Sign Recognition using Residual Convolutional Neural Network
- Achieved state-of-the-art results for road traffic sign recognition using deep residual neural network network for German and Belgian Traffic sign data-set.

Semantic Segmentation using Fully Convolutional Neural Networks (FCN)
- Implemented a FCN using dilated convolution and multi-scale skip connections for semantic segmentation and participated in University of Oxford's Pascal-VOC 2012 challenge.

ACADEMIC SERVICES

Reviewer	2019 – Present
■ BMVC-2020, WACV-2020, ICRA-2019, Sensors, IJAIT	
Graduate Teaching Assistant	Jan 2020 – May 2020
■ CS491/CS691 Deep Learning	

SELECTED COURSEWORK

Deep Learning, Machine Learning, Computer Vision, Algorithms, Ophthalmic Visual Computing, Applied Computer Vision, Image Processing

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AWARDS & HONORS

■ **Graduate Dean's Merit Scholarship**,	Aug 2019 – May 2020
Fall 2019 and Spring 2020	
■ **Best Paper Award**,	Aug 2018
2018 International Symposium on Advanced Intelligent Informatics (SAIN)	

SKILLS

- **Programming Languages:** C++, Python, Java, Bash (Shell Scripting), Matlab, HTML-CSS, Git, PHP
- **Libraries:** OpenCV, Scikit-learn, Numpy, Caffe, Keras, Tensorflow, PyTorch, CoreML, ImageJ.
- **Systems:** Linux OS, Google Cloud Platform (Compute Engine & App Engine)