

Sharif Amit Kamran

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EDUCATION

PhD. in Computer Science and Engineering

University of Nevada, Reno

CGPA: 3.5 / 4.0

Aug 2019 – Present

Bsc. in Computer Science and Engineering

BRAC University, Bangladesh

CGPA: 3.45 / 4.0

Jan 2013 – Apr 2017

WORK EXPERIENCE

Graduate Research Assistant, University of Nevada, Reno

Department of Computer Science and UNR school of Medicine

Aug 2019 – Present

Co-Founder, Bengali.AI

Dhaka, Bangladesh

Apr 2018 – Present

Mentor, Research & Engineering Apprenticeship Program (REAP)

US Army Educational Outreach Program

Jun 2020 – Aug 2020

Researcher, Center for Cognitive Skill Enhancement

Independent University Bangladesh (IUB), Dhaka, Bangladesh.

May 2017 – Jun 2019

PROJECTS

Retinal Image Synthesis using Generative Adversarial Networks

- Implemented an attention-based generative adversarial networks for synthesizing Fluorescein 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

- BMVC-2020, WACV-2020, ICRA-2019, Sensors, IJAIT

2019 – Present

Graduate Teaching Assistant

- CS491/CS691 Deep Learning

Jan 2020 – May 2020

SELECTED PUBLICATIONS

- [1] Improving Robustness using Joint Attention Network For Detecting Retinal Degeneration From Optical Coherence Tomography Images in *27th IEEE International Conference on Image Processing 2020 (ICIP)*.
- [2] A High Throughput Machine-Learning Driven Analysis of Ca²⁺ Spatio-temporal Maps, 2020, in *Cell Calcium*, 91, p.102260
- [3] 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](#))

SELECTED COURSEWORK

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

AWARDS & HONORS

Graduate Dean's Merit Scholarship,

Fall 2019 and Spring 2020

Aug 2019 – May 2020

Best Paper Award,

2018 International Symposium on Advanced Intelligent Informatics (SAIN)

Aug 2018

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)