

Sharif Amit Kamran

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740 Hood Avenue, Reno, NV 89512

EDUCATION	Ms. in Computer Science and Engineering University of Nevada, Reno	CGPA: 3.5 / 4.0 Aug 2019 – Dec 2020
	Bsc. in Computer Science and Engineering BRAC University, Bangladesh	CGPA: 3.45 / 4.0 Jan 2013 – Apr 2017

EXPERIENCE	Graduate Research Assistant , University of Nevada, Reno <i>Department of Computer Science and UNR school of Medicine</i>	Aug 2019 – Present
	Co-Founder , Bengali.AI <i>Dhaka, Bangladesh</i>	Apr 2018 – Present
	Deep Learning Engineer , SkinIQ Inc. <i>Palo Alto, California, U.S.</i>	May 2018 – Jun 2019
	Researcher , Center for Cognitive Skill Enhancement <i>Independent University Bangladesh (IUB), Dhaka, Bangladesh.</i>	May 2017 – Jun 2019

RESEARCH INTEREST	My research interest lies in the intersection of Computer Vision, Deep Learning, and Medical Image Processing. Most of my research involves Supervised and Unsupervised algorithms for Image Classification, Semantic Segmentation, etc. Quite recently, I have been working on improving robustness, image synthesis, and image denoising using GAN on different modalities of Ophthalmological and Calcium imaging data.	
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PUBLICATIONS	BOOK CHAPTER
	[1] Kamran, Sharif Amit, Sourajit Saha, Ali Shihab Sabbir and Alireza Tavakkoli, “A Comprehensive Set of Novel Residual Blocks for Deep Learning Architectures for Diagnosis of Retinal Diseases from Optical Coherence Tomography Images” <i>Book Chapter, in Deep Learning Vol 2., Springer Nature.</i>

JOURNALS

- [1] Leigh, Wesley, Guillermo Del Valle, Sharif Amit Kamran, Alireza Tavakkoli, Kenton M. Sanders and Salah A. Baker, “A High Throughput Machine-Learning Driven Analysis of Ca²⁺ Spatio-temporal Maps,” *in Cell Calcium*. **Submitted**

CONFERENCES

- [1] Kamran, Sharif Amit, Alireza Tavakkoli and Stewart Lee Zuckerbrod “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] Kamran, Sharif Amit, Sourajit Saha, Ali Shihab Sabbir and Alireza Tavakkoli, “Optic-Net: A Novel Convolutional Neural Network for Diagnosis of Retinal Diseases from Optical Tomography Images” in *2019 18th IEEE International Conference on Machine Learning and Applications (ICMLA)*.
- [3] Saha, Sourajit, Sharif Amit Kamran and Ali Shihab Sabbir, “Total Recall: Understanding Traffic Signs using Deep Hierarchical Convolutional Neural Networks,” in *2018 21st International Conference on Computer and Information Technology (ICCIT), IEEE*.

- [4] Kamran, Sharif Amit, and Ali Shihab Sabbir, “Efficient Yet Deep Convolutional Neural Networks for Semantic Segmentation,” in *2018 International Symposium on Advanced Intelligent Informatics (SAIN), IEEE*.

PRE-PRINT

- [1] Kamran, Sharif Amit, Khondker Fariha Hossain, Alireza Tavakkoli and Stewart Lee Zuckerbrod “Fundus2Angio: A Novel Conditional GAN Architecture for Generating Fluorescein Angiography Images from Retinal Fundus Photography” in *Arxiv*.

AWARDS & HONORS

- **Graduate Dean’s Merit Scholarship,**
Awarded 10,000 USD for Fall 2019 and Spring 2020

Aug 2019 – May 2020

- **Best Paper Award,**
2018 International Symposium on Advanced Intelligent Informatics (SAIN)

Aug 2018

REVIEWER

BMVC 2020, ICRA 2019

SKILLS

Programming Languages and Libraries

- C++, Python, Java, Bash (Unix Shell Scripting), Matlab
- OpenCV, Scikit-learn, Numpy, Pandas, Caffe, Keras, Tensorflow, PyTorch, CoreML, Google Cloud Platform.