

Sharif Amit Kamran

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EDUCATION	PhD. in Computer Science and Engineering	2019 – Present
	University of Nevada, Reno	
	Ms. in Computer Science and Engineering	Aug 2019 – Dec 2020
	University of Nevada, Reno	
	Bsc. in Computer Science and Engineering	Jan 2013 – Apr 2017
	BRAC University, Bangladesh	

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

RESEARCH INTEREST	My research interests lie 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” in <i>as Book Chapter, 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 Ca 2+ Spatio-temporal Maps,” *The FASEB journal*. **Submitted**

CONFERENCES

- [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 *31st British Machine Vision Conference 2020 (BMVC)*. **Submitted**
- [2] 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)*.

- [3] 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)*.
- [4] 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*.
- [5] 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*.

AWARDS & HONORS

- **Graduate Dean’s Merit Scholarship,** Aug 2019 – May 2020
Awarded 10,000 USD for Fall 2019 and Spring 2020
 - **Best Paper Award,** Aug 2018
2018 International Symposium on Advanced Intelligent Informatics (SAIN)
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REVIEWER

BMVC 2020, ICRA 2019, IJAIT

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.