Salman Siddique Khan

Contact Information

Address:	ESB 221, Electrical Sciences Block, IIT Madras, Tamil Nadu, India
email:	sk39@smail.iitm.ac.in
Webpage:	siddiquesalman.github.io

Research Interest

My field of research is Computational Imaging which incorporates designing new imaging systems and computational techniques that extend the capabilities of conventional cameras. In particular, I am interested in developing algorithms based on Optics, Signal Processing and Machine Learning that make these computational imaging systems work.

Education

2018-Present	Ph.D.,**Indian Institute of Technology Madras**, India
	Department: Electrical Engineering
	Advisor: Prof. Kaushik Mitra
2014-2018	BTech(Honors), **National Institute of Technology Rourkela**, India
	Department: Electronics and Instrumentation Engineering

Publications

Journal Papers

- **Salman S. Khan**, Varun Sundar, Vivek Boominathan, Ashok Veeraraghavan, Kaushik Mitra, **FlatNet: Towards Photorealistic Scene Reconstruction from Lensless Measurements**, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) 2020.

Conference Papers

- Jasper Tan, **Salman S. Khan**, Vivek Boominathan, Jeffrey Byrne, Richard Baraniuk, Kaushik Mitra, Ashok Veeraraghavan, **CAnOPIC: Pre-Digital Privacy-Enhancing Encodings for Computer Vision**, IEEE International Conference on Multimedia and Expo (ICME) 2020, London, UK. **(Oral)**

- **Salman S. Khan**, Adarsh V.R., Vivek Boominathan, Jasper Tan, Ashok Veeraraghavan, Kaushik Mitra, **Towards Photorealistic Reconstruction of Highly Multiplexed Lensless Images**, IEEE International Conference on Computer Vision (ICCV) 2019, Seoul, Korea. **(Oral)**

Teaching Experience

- Teaching Assistant	**EE 6132 Modern Computer Vision,** IIT Madras	Fall 2020
- Teaching Assistant	**EE 1101 Signals and Systems,** IIT Madras	Spring 2020
- Teaching Assistant	**EE 5176 Computational Photography,** IIT Madras	Spring 2019

Achievements And Awards

- Awarded the Qualcomm Innovation Fellowship India 2020-21.
- Awarded Google Travel Grant to attend ICCV 2019 at Seoul, South Korea.
- National Finalist in NIYANTRA 2017 Annual Student Design Contest
- National Finalist in e-Yantra 2016 Robotics Challenge

Professional Service

Reviewer (Journal)

- OSA Optics Express
- OSA Continuum

Work Experience

Jan-July 2021	Research Associate at Rice University, Houston, Texas, USA
	Worked on model-based neural nets for PPG based blood pressure estimation.
May-Nov 2019	Research Associate at Rice University, Houston, Texas, USA
	Worked on design of privacy preserving cameras using learning based techniques.
Summer 2017	Summer Intern at Indian Institute of Space Science and Technology, Trivandrum, India
	Developed active learning based image classification and object detection algorithms.
Summer 2016	Summer Intern at Indian Statistical Institute, Kolkata, India
	Worked on segmentation of histopathological images.