

# Salman Siddique Khan

## CONTACT INFORMATION

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ADDRESS: ESB 221, Electrical Sciences Block, IIT Madras, Tamil Nadu, India  
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WEBPAGE: [siddiquesalman.github.io](http://siddiquesalman.github.io)

## RESEARCH INTEREST

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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

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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

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### 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

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|----------------------|---|-------------|
| • Teaching Assistant | EE 5176 Computational Photography, IIT Madras | Spring 2021 |
| • 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

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- 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

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### Reviewer (Journal)

- OSA Optics Express
- OSA Continuum

## WORK EXPERIENCE

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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.