

THAMIDUL ISLAM TONMOY

Graduate Student Researcher
Department of Bioengineering
University of California, Riverside

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Education

- **Doctor of Philosophy**

September 2019 - Present

Department of Bioengineering
University of California, Riverside (UCR)
Supervisor: B. Hyle Park

- **Bachelor of Science**

February 2013 – September 2017

Department of Electrical and Electronic Engineering
Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh
Supervisor: Md. Kamrul Hasan

Research Interest

Biomedical Image Processing, Biomedical Signal Processing, Computer Vision, Machine Learning

Research Experience

- **Optical Neuro Imaging Lab, UCR**

- Graduate Student Researcher (January 2020 – Present)
Projects: ○ Developing OCT image acquisition program

- **DSP Research Lab, BUET**

- Research Assistant (November 2017 – July 2019)
 - Undergraduate Student Researcher (September 2016 – September 2017)
Projects: ○ Breast cancer classification from histopathological image
 ○ Traffic sign detection and recognition
 ○ Camera model identification
 ○ Breast lesion classification from ultrasound image
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Publications

- U. Kamal, **T. I. Tonmoy**, S. Das and M. K. Hasan, “Automatic Traffic Sign Detection and Recognition Using SegU-Net and a Modified Tversky Loss Function With L1-Constraint”, in *IEEE Transactions on Intelligent Transportation Systems*, vol. 21, no. 4, pp. 1467-1479, April 2020, doi: 10.1109/TITS.2019.2911727
 - A. M. Rafi, **T. I. Tonmoy**, U. Kamal, R. Hoque and M. K. Hasan, “RemNet: Remnant Convolutional Neural Network for Camera Model Identification”, (*under review*) [arXiv:1902.00694]
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Skills

Programming: MATLAB, Python, C++, C#

Deep Learning: Keras, PyTorch