

# Emran Hossen

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## EXPERIENCE

### Graduate Teaching Assistant Department of Mathematics Texas A&M University, Commerce, TX

August 2019 - PRESENT

- Mentor and assist students to excel in math and all subjects such as College Algebra, Precalculus, Calculus 1, Differential Equations and Numerical Analysis.
- Administer and proctored math quizzes and exams for multiple professors in College Algebra, Pre-Calculus, Calculus 1, and 2, Discrete Math, Differential Equations and Numerical Analysis.
- Correct and Grade Homework, quizzes and exams - providing constructive criticism.

### Lecturer in Mathematics Universal College, Sylhet, Bangladesh January 2018- May 2019

- Taught three mathematics sections including Calculus, Statistics and College Algebra.

## EDUCATION

### Master of Science in Mathematics Texas A&M University-Commerce, Texas Expected : May 2021

### Master of Science in Mathematics National University of Bangladesh January - 2016

### Bachelor of Science in Mathematics National University of Bangladesh December -2015

## LANGUAGES

English, Bengali

## SKILLS

- Coding Languages: Python, Fortran and Math Lab.
- Libraries: TensorFlow, Keras, Pandas, Numpy.
- Machine Learning: Regression models.
- Deep Learning Architectures: AI and CNN.

## AWARDS

- Rachel Lafferty Math Scholarship. (2019-2020)
- Rachel Lafferty Math Scholarship. (2020-2021)

## RESEARCH PROJECT

- Design Convolutional Neural Network (CNN) with ADAM or SGD(Stochastic Gradient Descent) or other learning methods. Make the weights changing formula use Clifford product. Run the CNN (or its modification). Conduct experiments with the ISIC 2020 skin lesion image database or part of it. (May 2020-Present)
- Find the probability that a line lies entirely in a plane.(Spring 2020)