

RESEARCH INTEREST

My current research interests are algorithmic fairness, explainable AI, collaborative sense-making, and information visualization for the visually impaired person. In general, I am interested in projects that try to solve not only scientific problems but also have impacts on social well-being. I am particularly interested in the problems at the intersection of visual media (visual analytics, virtual reality, augmented reality), and HCI.

EDUCATION

New York, NY **Stony Brook University** **Fall 2018 –**

- Ph.D. in Computer Science, Oct 2019. CGPA: 3.86
- Graduate Coursework: Data Science Fundamentals; Algorithms; Probability and Statistics; Big Data; Visualization; Theory of Database Systems; Fundamentals of Networking.

Bangladesh **University of Dhaka** **Jan 2011 – Jun 2016**

- M.S. in Computer Science and Engineering. CGPA: 3.67
- B.Sc. in Computer Science and Engineering. CGPA: 3.60, In-major CGPA: 3.65.
- Coursework: Programming Languages; Data Structure; Algorithms; Computer Architecture; Operating Systems; Artificial Intelligence; Software Engineering; Databases; Data Mining and Machine Learning;

Publication

- **M.N. Hoque**, D. Coelho, K. Mueller, Examining the Visualization Practices of Data Scientists on Kaggle, *InfoVis Poster*, 2019.
- M. M. Hassan, A. Adnan, A. M. Saleheen, **M. N. Hoque**, [Understanding the Patterns of Crime Reports in a Popular Bangladeshi Newspaper](#), *Companion of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2018)*, NJ, USA. (Worked as a PI)
- **M.N. Hoque**, R.E. Fatima., M. Mandal, N. Saquib, [Evaluating gender portrayal in Bangladeshi TV](#), *Machine Learning for the Developing World, NIPS 2017 Workshop*, Long Beach, CA, USA.
- M.S Rafid, M.M. Islam, **M.N. Hoque**, C.F. Ahmed, [Reframing for Non Linear Dataset Shift](#), *18th Conference on Knowledge Extraction and Management (EGC 2018)*, Paris, France.
- **M.N. Hoque**, C.F. Ahmed, N. Lachiche., C.K. Leung, H. Zhang, [Reframing in Clustering](#), *2016 IEEE 28th International Conference on Tools with Artificial Intelligence (ICTAI)*, San Jose, CA, USA.

EXPERIENCE

Graduate Research Assistant **Stony Brook University** **Summer 2019 –**

- Projects: Visual causal model for transparent decision making; Collaborative sense-making through causal reasoning; Gender Bias in Media.

Graduate Teaching Assistant **Stony Brook University** **Fall 2018 – Spring 2019**

- Courses: Data Structure; Probability and Statistics (Undergraduate); Machine Learning (Undergraduate).

Lecturer **Eastern University, Bangladesh** **Jan 2017 – July 2018**

- Courses: Introduction to Programming; Advanced Programming Lab; Data Structure;

Software Engineer **Enosis Solutions, Bangladesh** **Aug 2016 – Dec 2016**

- JavaScript (AngularJS)
- Worked on a Health Analytics platform that uses multiple charts to show personalized data to a user.
- Worked on a backend dashboard interface for the same health analytics platform.

AWARDS

- **Chairman's Fellowship (Fall 2018 – Spring 2019), Stony Brook University.**
- **Organizing Excellence, 2017, Eastern University, Bangladesh**, awarded for successfully organizing regional Math olympiad and several programming contests.

Languages and Technologies

- C; C++; Java; Python; JavaScript; SQL;
- Flask; D3.js; MapReduce; Apache Spark; TensorFlow; Git;