

# NAIMUL HOQUE

Website: <https://naimulhoque.github.io/>

[nhoque@umd.edu](mailto:nhoque@umd.edu)

[naimul.hoque705@gmail.com](mailto:naimul.hoque705@gmail.com)

Github: [github.com/tonmoycsedu](https://github.com/tonmoycsedu)

LinkedIn: [linkedin.com/in/mnhoque/](https://linkedin.com/in/mnhoque/)

## RESEARCH INTEREST

Human-Computer Interaction, Visual Analytics, and Explainable AI.

## EDUCATION

### University of Maryland, College Park, MD, USA

Fall 2020 –

Ph.D. in Information Sciences

Human-Computer Interaction Lab (HCIL), *advisor*: Niklas Elmqvist.

### Stony Brook University, NY, USA

Fall 2018-Summer 2020

- M.S. in Computer Science, **CGPA: 3.9**, *advisor*: Klaus Mueller.
- Graduate Coursework: Data Science Fundamentals, Probability and Statistics for Data Science, Big Data Analytics, Visualization; Algorithms; Theory of Database Systems; Fundamentals of Networking.

### University of Dhaka, Dhaka, Bangladesh

Jan 2011 – Jan 2015

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

## PUBLICATIONS

### WORK IN PROGRESS:

- **Md Naimul Hoque**, Klaus Mueller. Outcome-Explorer: A Causality Guided Interactive Visual Interface for Interpretable Algorithmic Decision Making. (Under review at IEEE TVCG, [preprint](#))
- **Md Naimul Hoque**, Syed Masum Billah. 2021. [Towards Augmenting Data Sonification with Natural Sounds](#). (Under review)

### PEER REVIEWED:

- **Md Naimul Hoque**, Nazmus Saquib, Syed Masum Billah, and Klaus Mueller. [Toward Interactively Balancing the Screen Time of Actors Based on Observable Phenotypic Traits in Live Telecast](#). **ACM CSCW 2020**.
- **Md Naimul Hoque**, Choudhury Farhan Ahmed, Nicolas Lachiche., Carson K. Leung, Hao Zhang. [Reframing in Clustering](#), 2016 IEEE 28th International Conference on Tools with Artificial Intelligence (ICTAI).

### EXTENDED ABSTRACT, WORKSHOP, AND POSTER:

- Bhavya Ghai, **Md Naimul Hoque**, Klaus Mueller. WordBias: An Interactive Visual Tool for Exploring Intersectional Social Biases Encoded in Word Embeddings. **CHI LBW 2021**.
- **Md Naimul Hoque**, Darius Coelho, Klaus Mueller. [Examining the Visualization Practices of Data Scientists on Kaggle](#), **InfoVis Poster, 2019**.
- Md Mehedi Hassan, Ashik Adnan, Asif M. Saleheen, **Md Naimul Hoque**. [Understanding the Patterns of Crime Reports in a Popular Bangladeshi Newspaper](#). **Companion of ACM CSCW 2018**. (Worked as the PI)
- **Md Naimul Hoque**, Rawshan E. Fatima, Manash Mandal, Nazmus Saquib. 2017. [Evaluating gender portrayal in Bangladeshi TV](#), Machine Learning for the Developing World, **NIPS 2017 Workshop**.

## **EXPERIENCE**

**Graduate Teaching Assistant**                                    **University of Maryland**                                    **Fall 2020**  
Courses: Introduction to Data Visualization; Introduction to Data Science.

**Graduate Research Assistant**                                    **Stony Brook University**                                    **Summer 2019-Summer 2020**  
• Projects: Visual causal model for transparent decision making, Collaborative sense-making through causal reasoning;  
Interactive visual tool for balancing visual biases in video streams.

**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**  
• Project: Health analytics platform to visualize personalized health data. I worked on the frontend team, which was responsible for building the frontend of the platform using AngularJS and google charts.

## **AWARDS**

- **Chairman’s Fellowship (Fall 2018 – Spring 2019), Stony Brook University.**
- **Organizing Excellence, 2017, Eastern University, Bangladesh**

### **Languages and Technologies**

- Python, JavaScript, C, C++, Java, SQL; Flask; D3.js; MapReduce, Hadoop, Spark; TensorFlow; Git; Oracle, MySQL;