

MD NAIMUL HOQUE

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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

- **Md Naimul Hoque**, Klaus Mueller. Outcome-Explorer: A Causality Guided Interactive Visual Interface for Interpretable Algorithmic Decision Making. *IEEE Transaction on Visualization and Computer Graphics*. 2021. ([preprint](#))
- 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**, 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*. ([pdf](#))
- **Md Naimul Hoque**, Choudhury Farhan Ahmed, Nicolas Lachiche., Carson K. Leung, Hao Zhang. Reframing in Clustering. *IEEE 28th International Conference on Tools with Artificial Intelligence (ICTAI)*. 2016. ([pdf](#))
- **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*. ([pdf](#))
- **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*. ([pdf](#))

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;