

# NAIMUL HOQUE

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## RESEARCH INTEREST

My current research interests are Human-centered AI, Explainable AI, and Intelligent User Interface. In general, I am enthusiastic about projects that work towards social well-being by combining techniques from Machine Learning, Information Visualization, and Human-Computer Interaction.

## EDUCATION

### University of Maryland, MD, USA

Fall 2020 –

Ph.D. in Information Studies (Transferred from Stony Brook University)

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**
- 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. 2021. [Outcome-Explorer: A Causality Guided Interactive Visual Interface for Interpretable Algorithmic Decision Making](#). (Under Review at CHI 2021)
- Bhavya Ghai, **Md Naimul Hoque**, Klaus Mueller. 2021. WordBias: An Interactive Visual Tool for Exploring Intersectional Social Biases Encoded in Word Embeddings. (Under Review at IUI 2021)
- **Md Naimul Hoque**, Syed Masum Billah. 2021. [Towards Augmenting Data Sonification with Natural Sounds](#). (Work in Progress)
- **Md Naimul Hoque**, Nazmus Saquib, Syed Masum Billah, and Klaus Mueller. 2020. [Toward Interactively Balancing the Screen Time of Actors Based on Observable Phenotypic Traits in Live Telecast](#). Proc. ACM Hum.-Comput. Interact. 4, CSCW2, Article 154 (October 2020), 19 pages. <https://doi.org/10.1145/3415225>
- **Md Naimul Hoque**, Darius Coelho, Klaus Mueller. 2019. [Examining the Visualization Practices of Data Scientists on Kaggle](#), *InfoVis Poster*, 2019.
- Md Mehedi Hassan, Ashik Adnan, Asif M. Saleheen, **Md Naimul Hoque**. 2018. [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 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*, Long Beach, CA, USA.
- Md Shadman Rafid, M.M. Islam, **Md Naimul Hoque**, Choudhury Farhan Ahmed. 2018. [Reframing for Non Linear Dataset Shift](#), *18th Conference on Knowledge Extraction and Management (EGC 2018)*, Paris, France.

- **Md Naimul Hoque**, Choudhury Farhan Ahmed, Nicolas Lachiche., Carson K. Leung, Hao Zhang. 2016. [Reframing in Clustering](#), 2016 IEEE 28th International Conference on Tools with Artificial Intelligence (ICTAI), San Jose, CA, USA.

## 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;