

MD NAIMUL HOQUE

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RESEARCH INTEREST

My research interests span to visual analytics, human-computer interaction, and machine learning. More precisely, I design interactive tools to increase user agency in AI-mediated systems.

EDUCATION

University of Maryland, College Park, MD, USA *Aug 2020 - Present*
Ph.D. in Information Studies CGPA: 3.95/4
Human-Computer Interaction Lab (HCIL), Advisor: Niklas Elmqvist

Stony Brook University, NY, USA *Aug 2018 - May 2020*
M.S. in Computer Science CGPA: 3.9/4.00
Advisor: Klaus Mueller

University of Dhaka, Dhaka, Bangladesh *2011-2015*
B.Sc. in Computer Science and Engineering CGPA: 3.6/4.00

PROFESSIONAL EXPERIENCE

Research Intern Virtual
Bosch Research, Advisor: Liang Gou *May 2021 - Aug 2021*

Designed an interactive interface to interpret visual concepts learned from a self-supervised model. The interface allows weak supervision for fine-tuning the concepts. We submitted a patent for the project and currently working on writing a paper.

Graduate Teaching Assistant MD, USA
University of Maryland, College Park *Aug 2020 - Present*

Courses: Introduction to Data Visualization; Introduction to Data Science.

Graduate Research Assistant NY, USA
Stony brook University, Advisor: Klaus Mueller *May 2019- Aug 2020*

Projects: Visual causal model for transparent decision making, Collaborative sense-making through causal reasoning; Interactive tool for balancing screentime for characters in a live telecast.

PUBLICATION

- Md Naimul Hoque, Bhavya Ghai, Niklas Elmqvist. DramatVis Personae: Visual Text Analytics for Guiding Character Development and Avoiding Stereotypes in Creative Storytelling. (In submission)
- Md Naimul Hoque, Md Ehtesham-Ul-Haque, Niklas Elmqvist, Syed Masum Billah. Data Sonification with Natural Sounds. (In submission)
- 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. [pdf](#)
- Bhavya Ghai, Md Naimul Hoque, Klaus Mueller. WordBias: An Interactive Visual Tool for Exploring Intersectional Social Biases Encoded in Word Embeddings. *Extended Abstracts of the CHI Conference on Human Factors in Computing Systems*. 2021. [pdf](#) [github](#)

- 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 Conference on Computer-Supported Cooperative Work and Social computing (CSCW)*. 2020. [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](#)
- 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](#)

AWARDS AND ACHIEVEMENTS

- Dr. Dana Rotman Doctoral Student Travel Awards. iSchool, University of Maryland, College Park. 2021
- Doctoral Student Research Award (DRSA). iSchool, University of Maryland, College Park. 2021. (\$1000)
- Chairman's Fellowship. Stony Brook University. 2018. (\$3000)