

Md Saiful Islam

Mechanical and Industrial Engineering
Northeastern University
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Education

- 2018-Present **Northeastern University**, Boston, Massachusetts
– PhD in Industrial Engineering
- 2018 **Texas Tech University**, Lubbock, Texas
– MS in Industrial Engineering
- 2013 **Bangladesh University of Engineering and Technology**, Dhaka, Bangladesh
– BS in Industrial and Production Engineering

Academic Positions

- 2018-Present **Research Assistant**, Northeastern University, Boston
- 2015-2017 **Teaching Assistant**, Texas Tech University, Texas
- 2013-2015 **Lecturer**, Ahsanullah University of Science and Technology, Dhaka, Bangladesh

Publications & Talks

WORKING PAPERS

- 2020 **Islam, M.S.**, Morshed, M.S., Noor-E-Alam, Md., “An Alternating Projection based Algorithm to Solve Nonlinear Assignment Problems”, (*Manuscript in preparation*).
- 2020 Morshed, M.S., **Islam, M.S.**, Noor-E-Alam, Md., “On Generalization and Acceleration of Randomized Projection Methods for Linear Feasibility Problems”, (*Under review in Mathematical Programming*).
- 2020 Hasan, M.M., Mohite, P., **Islam, M.S.**, Young, G., Noor-E-Alam, Md., “An Analysis of Patient and Provider Level Characteristics in Opioid Use Disorder Treatment Adherence”, (*Manuscript in preparation*).

JOURNAL PUBLICATIONS

- 2019 Morshed, M.S., **Islam, M.S.**, Noor-E-Alam, Md., “Accelerated Sampling Kaczmarz Motzkin Algorithm for Linear Feasibility Problem”, *Journal of Global Optimization*, doi:10.1007/s10898-019-00850-6.
- 2019 **Islam, M.S.**, Morshed, M.S., Young, G., Noor-E-Alam, Md., “Robust Policy Evaluation From Large-scale Observational Studies”, *PloS One*, 14(10), e0223360.
- 2018 Khorasani, S.T., Keshtzari, M., **Islam, M.S.**, Feizi, R., “Intravenous Fluid Delivery Time Improvement: Application of Cross-Docking System”, *International Journal of Health Care Quality Assurance*, 31(8), 1070-1081.
- 2018 **Islam, M.S.**, Hasan, M.M., Wang, X., Germack, H., Noor-E-Alam, Md., “A Systematic Review

on Healthcare Analytics: Application and Theoretical Perspective of Data Mining”, *Healthcare* 6(2), 54.

CONFERENCE PROCEEDINGS

2017 Khorasani, S.T., Cross, J., Feizi, R., **Islam, M.S.**, “Application of Lean Tools in Medication Ordering Systems for Hospital”. *Proceedings of IIE Annual Conference*, 2017, 1145-1150.

CONFERENCE AND WORKSHOP PRESENTATIONS

2019 Marcozzi, P., Tsakirellis, K., **Islam, M.S.**, Noor-E-Alam, Md., “Disparity in Health Literacy in the United States”, *IIE annual Conference and Expo, 2019, Orlando, FL*.

2017 **Islam, M.S.**, Matis, T., “Path Planning of Multiple Unmanned Surface Vehicle under Communication Constraint”, *INFORMS Annual Meeting, 2017, Houston, TX*.

2016 Matis, T., Choudhary, P., **Islam, M.S.**, Jian, C., “Measuring High Reliability Organizations through Text Mining”, *High Reliability Workshop 2016, University of Tennessee Space Institute, Tullahoma, TN*.

Teaching Experience

Teaching Assistant, Texas Tech University, Lubbock, Texas

- IE 5346: Total Quality Systems, Fall 2017
- IE 5342: Design of Experiments, Fall, 2016, Spring 2017
- IE 2301: Engineering Design in Production Operations, Fall 2015, Spring 2016

Lecturer, Ahsanullah University of Science and Technology, Dhaka, Bangladesh

- IPE 411: Industrial Management, Spring 2015
- IPE 4206: Industrial Simulation, Fall 2014, Spring 2015
- IPE 3203: Material Handling and Maintenance Management, Fall 2014
- HUM 2107: Engineering Economy, Fall 2013, Spring 2014

Honors & Awards

2016 Study Abroad Scholarship, Texas Tech University

2013 ISCEA PTAK Prize: A Global case Competition on Supply Chain Management

2008-2012 Dean’s Award for Academic Excellence, Bangladesh University of Engineering and Technology

Service & Professional Activities

Referee: PloS One, FACETS, International Journal of Water, Computers & Industrial Engineering

Member: INFORMS Analytics Society, Computing Society, & Simulation Society

Mentorship Experience

2018-2019 **Peyton Marcozzi**, BS in Industrial Engineering, NEU (email: marcozzi.p@husky.neu.edu)

- Project: “Disparity in Health Literacy in the United States”, presented in *IISE annual Conference and Expo, 2019, Orlando, Florida*.

2019 **Shangru Han**, MS in Industrial Engineering, NEU (email: han.sha@husky.neu.edu)

- Project: “Risk Prediction Modeling for Prescription Opioid Misuse”.

2019 **Pratik Kadam**, MS in Operations Research, NEU (email: kadam.pra@husky.neu.edu)

- Project: “Evaluation of Hospital Readmission Reduction Program (HRRP) and it’s Impact on Non-index Readmission”.

Programming Skills

Advanced: R, MATLAB

Intermediate: Python, SQL, AMPL, CPLEX, Julia

Reference

Available upon request.

Updated on March 25, 2020