

Ineen Sultana

Graduate Research Assistant & PhD Candidate
Department of Industrial & Systems Engineering
Texas A&M University, College Station, TX, USA.

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SUMMARY OF POTENTIALS

- Experienced in data mining, data exploration and data analysis with machine learning algorithm approaches
- Strong background in stochastic optimization techniques and application in healthcare
- Experienced in collaborative healthcare research projects
- Skilled programming language: R, Python, Matlab, C++
- Extensive leadership experience and positive teamwork with can do attitude

EDUCATION

- ***PhD program in Industrial and Systems Engineering***, Expected 2020, (GPA 3.83/4.00 after 3rd year)
Texas A&M University, College Station, TX, USA.
- ***Master of Science in Industrial and Production Engineering, 2014***
Bangladesh University of Engineering and Technology, Dhaka, Bangladesh.
- ***Bachelor of Science in Industrial and Production Engineering, 2012***
Bangladesh University of Engineering and Technology, Dhaka, Bangladesh.

RESEARCH INTEREST

Data Analytics in Health Care, Machine Learning, Optimization in Health Care, Stochastic Modelling

PROFESSIONAL EXPERIENCE

- **Graduate Research Assistant & PhD student** *September 2015 -Present*
Department of Industrial & Systems Engineering
Texas A & M University
- **Visiting Graduate Research Fellow** *September 2018 -Present*
Houston Methodist, Centre of Research Division
Houston, TX 77030
- **Teaching Instructor** *October 2012 –August 2015*
Department of Mechanical & Production Engineering
Ahsanullah University of Science & Technology, Bangladesh
- **Procurement Specialist Intern** *January 2011-March 2011*
Supply Chain Management
Robi Axiata Limited, Bangladesh

RESEARCH EXPERIENCE

- Working on data driven stochastic model for developing preferred post-acute provider network
- Worked on data analytics for predictive modeling of Post-acute care
 - Post-Acute Care Referral: A Cohort Study of Patients with Coronary Artery Bypass Graft or Valve Replacement
 - Association of post-acute care referral with hospital length-of-stay and readmission after Coronary Artery Bypass Graft or Valve Replacement
- Working on “Investigating the Technological Contributors to ICU Fatigue and Burnout” project
- Worked on “Adoption of Telemedicine for post-surgical follow-up visits” project
- Worked in project titled “Economic Design of Control Chart for single and Multiple Assignable Causes”

PEER-REVIEWED JOURNAL PUBLICATIONS

- **Sultana, I.**, Ahmed, I., Azeem, A.,(2015) [“An Integrated Approach for Multiple Criteria Supplier Selection combining Fuzzy Delphi, Fuzzy AHP and Fuzzy TOPSIS”](#), *Journal of Intelligent and Fuzzy Systems*, Vol 29, No. 4, PP. 1273-1287.
- **Sultana, I.**, Ahmed, I., Paul, S.K., Chowdhury, A.H., (2014) [“Economic Design of X- bar control chart using Genetic Algorithm and Simulated Annealing Algorithm”](#), *International Journal of Productivity and Quality Management*, Vol. 14, No.3, pp:352-372
- **Sultana, I.**, Ahmed, I., Azeem, A., Sarker, N.R., (2018) [“Economic Design of Exponentially Weighted Moving Average \(EWMA\) Chart with Variable Sampling Interval at Fixed Times \(VSIFT\) Scheme incorporating Taguchi Loss Function”](#), *International Journal of Industrial & Systems Engineering* Vol: 29, No.4, pp. 428 – 452.
- Ahmed, I., **Sultana, I.**, Paul, S.K., Azeem, A.,(2014) [“Performance Evaluation of Control Chart for Multiple Assignable Causes Using Genetic Algorithm”](#), *International Journal of Advanced Manufacturing Technology*, Vol. 70, pp:1889–1902
- Ahmed, I., **Sultana, I.**, Paul, S.K., Azeem, A., (2013) [“Employee Performance Evaluation: A Fuzzy Approach”](#), *International Journal of Productivity and Performance Management*, Vol: 62, No. 7, pp: 718-734.
- Ahmed, I., **Sultana, I.**, Azeem, A., (2016) [“Development of an inventory model for two suppliers with random capacity considering supply disruption”](#), *International Journal of Logistics and Systems Management*, Vol: 26, No.1, pp. 57 – 84.

PUBLICATIONS IN PROGRESS

- Sultana, I., Erraguntla, M., Kum, H., Delen, D., Lawley, M., “Post-Acute Care Referral: A Cohort Study of Patients with Coronary Artery Bypass Graft or Valve Replacement”, *BMC Medical Informatics and Decision Making* (Second revision)
- Sultana, I., Erraguntla, M., Kum, H., Delen, D., Lawley, M., “Associations between Hospital Readmission and Length-of-Stay and Post-Acute Care following Coronary Artery Bypass Graft or Valve Replacement”, *PLOS One* (Under review)

PRESENTATIONS

○ **INFORMS Annual Conference**

- A Predictive model to estimate post-acute care needs: A Cohort Study of Patients with Coronary Artery Bypass Graft or Valve Replacement, Houston, TX, Oct 2017
- Associations between Hospital Readmission, Length-of-Stay and Post-Acute Care, Phoenix, AZ, Nov 2018

○ **IISE Annual Conference**

- Stochastic approach for operational planning of a Preferred Post-Acute Network, Houston, Orlando, May 2019
- Invited poster presentation on “Preferred Post-Acute Provider Network: An Approach to Improve Care Coordination in Healthcare Continuum”, Orlando, May 2019

ACADEMIC DISTINCTION

- Awarded **Dean’s Scholarship** for two years while studying B. Sc. Engineering in the Department of Industrial and Production Engineering, BUET
- Awarded **University Merit Scholarship** in four semesters while studying B. Sc. Engineering in the Department of Industrial and Production Engineering, BUET
- Awarded **Board (Dhaka) Scholarship** by the Government of Bangladesh for four years for outstanding result in both Higher Secondary and Secondary School Certificate examination

AFFILIATIONS

- President of Bangladesh Student Association, Texas A&M University (2018-2019)
- Vice President of INFORMS Student Chapter (Marketing), Texas A&M University (2018-Present)
- Member of Institute for Operations Research and the Management Sciences (INFORMS) (2017-present)
- Member of Institute of Industrial and System Engineers (IISE) (2019- present)
- Ex-Public Relation Secretary of Association of Industrial & Production Engineering (AIPE), BUET (2010-2011)
- Former member of Science Olympiad committee of “Ideal Science and Technology Aiming Research Council (ISTARC)” (2004-2005)