Tahmidul Islam

Office: LeConte 209F, 1523 Greene Street, Columbia, S.C. 29208 | Phone: 412-877-5255 Email: islamt@email.sc.edu | Web: http://people.stat.sc.edu/islamt LinkedIn: www.linkedin.com/in/tahmidul | Github: https://github.com/tahmid-usc

Education

[2016-Present] Ph.D. in Statistics University of South Carolina [2014-2016] M.S in Statistics, Biostatistics & Informatics CGPA: 3.94 University of Dhaka [2010-2014] B.S in Statistics, Biostatistics & Informatics CGPA: 3.71

University of Dhaka Statistical Computing

• R, SAS, stata, SPSS

Graduate Courses

- Probability theory I & II
- · Mathematical Statistics I & II
- Data Analysis I & II
- Stochastic Processes
- Advanced Inference
- Nonparametric Inference
- Large Sample Theory
- Categorical Data Analysis
- · Computing with R and SAS
- Linear Models
- Biostatistics
- Artificial Intelligence
- Statistical Consulting

Awards

- Outstanding Graduate Assistant Award 2018
- Outstanding First-Year Graduate Student Award 2017
- National Science and Technology Fellowship; Bangladesh Government

Areas of Interest

Functional data analysis, Machine learning, Gaussian Process, Mixed effect model, Time series

Projects

- Develop Bayesian framework for analyzing sparse and non-sparse functional data using Gaussian process
 - · Smoothing and supervised classification for functional data
 - Develop approximation free for efficient computation for non-sparse (regular) functional data
 - \cdot $\;$ Smoothing and classification of spinal bone mineral density measurement
 - Smoothing and classification of genes related to phases of yeast cell cycle from temporal gene expression data
 - Speech recognition: classifying phonemes from digitized speech
- Computationally efficient Gaussian process regression for data with replications
- Forecast electricity power load in Texas with TBATS model
- Predict breast cancer from digitized image of fine needle aspirate of breast mass
- Frailty and GLMM for analyzing under-5 mortality and child malnutrition in Bangladesh

Work Experience

- [2016 Present]
 - Graduate Teaching Assistant, Department of Statistics University of South Carolina
 - Taught courses: STAT 201 (Elementary Statistics), STAT 509 (Statistics for Engineers)
- [Summer 2017]
 - Graduate Research Assistant: Department of Epidemiology and Biostatistics, University of South Carolina
 - Investigate association between small for gestation age and infant mortality using GAM
- [2016]
 - · Statistical Officer, icddr,b, Bangladesh
 - Analyzing health surveillance system data

Publications/Conferences

- Islam, T., Chakraborty, P., Lynch, J., and Grego, J. (2019). Bayesian Smoothing and Classification of Sparse Functional Data Using Gaussian Process. Poster session (Bayesian Methods) at the JSM, Denver, CO
- Islam, T. (2019). Learning Images with Gaussian Process Regression and Application to Classification. Poster session (Machine Learning) at the ENAR, Philadelphia, PA
- Islam, T., Rabbani, M., and Bari, W. (2016). Analyzing child malnutrition in Bangladesh: Generalized linear mixed model approach. *Dhaka University Journal of Science*