

CURRICULUM VITAE OF NISHITH KUMAR

CAREER OBJECTIVE

To build up career in Teaching and Research sector in any reputed University or institution of the World.

PRESENT STATUS

Assistant Professor, Department of Statistics, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj, Bangladesh.

ACADEMIC QUALIFICATIONS

M. Sc., 2005

Completed one year M. Sc. course from the Department of Statistics, Faculty of Science, University of Rajshahi, Rajshahi, Bangladesh in 2005 (examination held in 2006, due to one year session jam). Secured **First class 2nd position** in order of merit.

Subject studied

1. Statistical Inference, 2. Multivariate Methods, 3. Advanced Theory of Regression, 4. Generalized Linear Model, 5. Design of Experiments, 6. Survey Methods, 7. Time Series Analysis, 8. Econometric Analysis, 9. Computer Intensive Statistics (Bootstrap, Jackknife and Density Estimation)

Thesis Title

Singular Value Decomposition and a New Plot for Detection of Outliers.

Thesis Supervisor

Dr. Mohammed Nasser, Professor, Department of Statistics, Rajshahi University, Rajshahi, Bangladesh.

Medium of Instruction

English

B. Sc., 2004

Completed 4 years B. Sc. (Hons.) course from the Department of Statistics, Faculty of Science, University of Rajshahi, Rajshahi, Bangladesh in 2004 (examination held in 2005, due to session jam). Secured **First class 2nd position** in order of merit.

Subject studied

Univariate and Multivariate Statistics, Linear Algebra, Advanced Calculus, Simulation modelling, Stochastic Process, Regression Analyses and Regression Diagnostics, Economic Statistics and Econometrics, Statistical Quality Control and O.R, Demography, Bio-Statistics, Measure Theory, Probability Theory, Theory of Estimation. Social and Official Statistics.

Medium of Instruction

English

H.S.C., 2000

Passed two years Higher Secondary Certificate (H.S.C.) examination from Bagherpara Degree College with **First division**.

Subject studied

Bengali (Language and Literature), English (Language and Literature), Physics, Chemistry, Mathematics, Biology.

S.S.C., 1998

Passed ten years Secondary School Certificate (S.S.C.) examination from Bagherpara High School, with **First Division** (* Marks)

Subject studied

Bengali (Language and Literature), English (Language and Literature), Social Science, Mathematics (General and Higher), Physics, Chemistry, Biology and Religion Hindu.

JOB EXPERIENCE

From 1 st May 2007 to 31 st December 2009	As Statistical programmer, Shafi Consultancy Bangladesh, Sylhet, Bangladesh.
From 2 nd January 2010 to 15 October, 2012	As Lecturer, Begum Rokeya University, Rangpur.
From 16 October, 2012 to 6 th April, 2013	As Lecturer, Department of Statistics, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj, Bangladesh.
7 th April, 2013 to Till Now	As Assistant Professor, Department of Statistics, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj, Bangladesh.

RESEARCH EXPERIENCE

Completed one years research works with entitle "***Singular Value Decomposition and a New Plot for Detection of Outliers***" and submitted a dissertation in partial fulfillment of the requirements for the degree of M. Sc. to the Department of Statistics, University of Rajshahi, Rajshahi, Bangladesh.

LIST OF PUBLICATION

1. **Kumar, N.**, Hoque, M. A., & Sugimoto, M. (2018). Robust volcano plot: identification of differential metabolites in the presence of outliers. *BMC bioinformatics*, 19(1), 128. (Impact Factor- 2.448)
2. **Kumar, N.**, Hoque, M. A., Shahjaman, M., Islam, S. M. S. and Mollah, M. N. H. (2017). Metabolomic Biomarker Identification in Presence of Outliers and Missing Values. *BioMed Research International*, 2017, 1-11. (Impact Factor- 2.47)
3. **Kumar, N.**, Hoque, M. A., Shahjaman, M., Islam, S. M. S. and Mollah, M. N. H. (2017). A New Approach of Outlier-Robust Missing Value Imputation for Metabolomics Data Analysis. *Current Bioinformatics*, 12, 1-11. (Impact Factor- 0.6) DOI : 10.2174/1574893612666171121154655
4. **Kumar, N.**, Shahjaman, M., Mollah, M. N. H., Islam, S. M. S. and Hoque, M. A. (2017). Serum and Plasma Metabolomic Biomarkers for Lung Cancer. *Bioinformation*, 13(6), 202-208. (PubMed Indexed)
5. **Kumar, N.**, Hoque, A., Shahjaman, M., Islam, S. S., & Haque Mollah, M. (2018). Significant Metabolites and Outlier-Robust Classifier Identification for Breast Cancer Prediction. *Current Metabolomics*, 6(2), 147-154. (ISI Indexed) DOI: 10.2174/2213235X06666180131155010
6. Maniruzzaman, M., Suri, H. S., **Kumar, N.**, Abedin, M. M., Rahman, M. J., El-Baz, A., ... & Suri, J. S. (2018). Risk factors of neonatal mortality and child mortality in Bangladesh. *Journal of global health*, 8(1). (Impact Factor- 2.84)
7. Maniruzzaman, M., **Kumar, N.**, Abedin, M. M., Islam, S. M. S., Suri, H. S., El-Baz, A. S., and Suri, J. S. (2017). Comparative approaches for classification of diabetes mellitus data: Machine learning paradigm. *Computer Methods and Programs in Biomedicine*, 152, 23-34. (Impact Factor- 2.503)
8. Shahjaman, M., **Kumar, N.**, Mollah, M. M. H., Ahmed, M. S., Ara Begum, A., Islam, S. M. S. and Mollah, M. N. H. (2017). Robust Significance Analysis of Microarrays by Minimum β -Divergence Method. *BioMed Research International*, 2017, 1-18. (Impact Factor- 2.47)
9. Shahjaman, M., **Kumar, N.**, Ahmed, M. S., Ara Begum, A., Islam, S. M. S. and Mollah, M. N. H. (2017). Robust Feature Selection Approach for Patient Classification using Gene Expression Data. *Bioinformation*, 13(10), 327-332. (PubMed Indexed)

10. **Kumar, N.**, Hossain, T., J Beh, E., Sugimoto, M. and Nasser, M. (2016). Identification of Differentially Expressed Gene Using Robust Singular Value Decomposition. *Current Bioinformatics*, 11(3), 366-374. (Impact Factor- 0.6)
11. **Kumar, N.** and Nasser, M. (2016). Multivariate Data Visualization: Correspondence Analysis, Classical and Robust Singular Value Decomposition and Depth based Approach. *International Journal*, 4(1), 416-425.
12. Hossain, T., **Kumar, N.** and Nasser, M. (2012). Performance of Wavelet Transformation, Fourier Transformation and Singular Value Decomposition (Classical and Robust) in Image Compression and Denoising. *Proceedings of International Conference on Statistical Data Mining for Bioinformatics Health Agriculture and Environment*. Bangladesh.
13. **Kumar, N.** and Nasser, M. (2012). A new graphical multivariate outlier detection technique using singular value decomposition. *International Journal of Engineering*, 1(6).
14. **Kumar, N.**, Nasser, M. and Sarker, S. C. (2011). A new singular value decomposition based robust graphical clustering technique and its application in climatic data. *Journal of Geography and Geology*, 3(1), 227-238.

REFERENCES

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2. Dr. Md. Aminul Hoque
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PERSONAL DATA

Father's Name : Naresh Chandra Pal.
Date of birth : 1th April 1983
Nationality : Bangladeshi (by birth)

Religion : Sonatan
Marital Status : Married
Sex : Male

MAILING ADDRESS

Assistant Professor, Department of Statistics,
 Bangabandhu Sheikh Mujibur Rahman Science and
 Technology University, Gopalganj, Bangladesh

HOME ADDRESS

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