

DR. MEZBAHUR RAHMAN

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Department of Mathematics and Statistics
Minnesota State University, Mankato, MN 56001
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GOAL: Be a Model Teacher and Researcher.

EDUCATION:

Ph.D., Applied Statistics, University of California Riverside, December 1995.
Concentration: Estimation & Statistical Inference (Parametric and Nonparametric). The Dissertation deals with Two Stage Shrinkage Testimation in Density Function, Regression Function, and Regression Parameter.

M.S., Statistics, Michigan State University, East Lansing, June 1989. Concentration: Statistics, Operations Research, Quality Control, Time Series, and Mathematics.

M.Sc., Statistics, University of Dhaka, Bangladesh, July 1986. Concentration: Quality Control, Experimental Design, and Sampling Techniques.

B.Sc., Statistics, University of Dhaka, Bangladesh, June 1984. Additional Subjects: Mathematics and Economics.

AWARDS AND SCHOLARSHIPS: The Excellence Faculty Research Award 2016, CSET, MSU. The Excellence Faculty Research Award 2009, CSET, MSU. Outstanding Teaching Assistant Award 1995 and Garber Outstanding Student of the Year Award 1993, University of California Riverside. M.Sc. and B.Sc. Scholarships, University of Dhaka, Bangladesh. Primary, Secondary, and Higher Secondary Scholarships, Bangladesh.

SOCIETY MEMBERSHIPS: American Statistical Association (ASA), Mathematical Association of America (AMS), Faculty Association for Minnesota Public Universities and Colleges, Mathematical Association of America South Central Minnesota Chapter, American Statistical Association Minnesota Chapter, Bangladesh Statistical Association, North America Bangladesh Statistical Association, Bangladesh Environment Network.

EDITORIAL BOARD MEMBERSHIP:

International Journal of Statistical Sciences.

[Earthline Journal of Mathematical Sciences](http://www.earthlinepublishers.com) Published by Earthline Publishers, Chittoor, India
www.earthlinepublishers.com

Associate Editor: Journal of Applied Probability and Statistics

ACADEMIC EXPERIENCE:

Professor, Associate Professor and Assistant Professor: (August 1999 – present). Department of Mathematics and Statistics, Minnesota State University, Mankato. Taught College Algebra, Trigonometry, Pre-Calculus, Elementary Statistics, Probability and Statistics, Applied Regression Analysis, Sampling Methods, Theory of Statistics, Categorical Data Analysis, Non-parametric Statistics, Bayesian Statistics, Undergraduate Statistics Capstone, and Linear Models.

Lecturer: (August 1996 – August 1999). Institute for Mathematical Sciences and Applications, California State University, Monterey Bay. Taught a wide range of Elementary statistics courses for Business, Liberal Studies, Social Behavioral Sciences, and Earth Systems and Science students.

Visiting Assistant Professor: (January 1996 – July 1996). Division of Statistics, University of California, Davis. Taught Elementary Statistics, Nonparametric Statistics, and Regression Analysis.

Part-time Instructor: (September 1992 – December 1995). Department of Information & Decision Sciences, California State University, San Bernardino. Taught upper division courses in Business Statistics.

Teaching Assistant: (June 1992 – December 1995). Department of Statistics, University of California, Riverside. Taught several Statistics (Elementary Statistics and Business Statistics) courses independently in addition to assisting the primary instructor through tutoring and grading different Statistics (Elementary Statistics, Business Statistics, Bio-Statistics, Mathematical Statistics, and Linear Models) courses.

Teaching Assistant: (September 1990 – June 1992). Department of Mathematics, University of California, Riverside. Taught several Mathematics (Pre-Calculus, Algebra, Discrete Mathematics) courses independently in addition to assisting the primary Instructor through tutoring and grading different Mathematics (Calculus, Discrete Mathematics, and Linear Algebra) courses.

Teaching Assistant: (August 1989 – July 1990). Department of Mathematics and Statistics, Old Dominion University, Norfolk, VA. Taught Algebra, Pre-Calculus, and Elementary Statistics courses.

NON-ACADEMIC EXPERIENCE:

Statistician: (January 1987 – July 1987). Research Services Limited, Dhaka, Bangladesh. Responsibilities include: Tabulation planning, Data analysis, Administer tabulators. Major project: Evaluation of awareness of plantation and the achievements after the phase I study.

Research Assistant: (July 1986 – December 1986). National Institute of Local Government, Dhaka, Bangladesh. Project: Socio Economic Studies of Dhaka City.

CONSULTING EXPERIENCE:

Consulted for the office of the public defender, third judicial district, Owatonna, Minnesota, 2001. Project dealt with Racial Profiling Studies in Law Enforcement.

Consulted for Philips Semiconductors, Sunnyvale, California, 1997. Project dealt with Marketing Research for 3D Graphic Chips via Internet using Conjoint Analysis.

Consulted for OMNITRANS, San Bernardino, California, 1995. Project dealt with Validation of sample size in passenger miles Survey Research.

ADMINISTRATION:

California State University Monterey Bay: Member, Chair Search, 1997; Member, Faculty Student Affairs, 1997; Chair, Faculty Student Affairs, 1998; Member, Grade Appeal, 1998; Member, Chair Search, 1998.

Minnesota State University, Mankato:

Member, Fixed Term Faculty Search, 2000-2005; Member, Ad Hoc Academic Standing, 2000; Advisor, Bangladesh Student Association, MSU, 1999-2007; Member, Departmental Curriculum, 2000; Member, International Program Faculty Advisory, 2000; Member, Admissions Appeal Committee, 2000-2008; Member, Departmental Personnel, 2001-2024; Member, Departmental Advisory Committee, 2001; Member, Admissions Appeal Committee, 2001-2008; Chair, Probationary Search Committee, 2004-05; Member, Probationary Search Committee, 2005; Member, Fixed Term Faculty Search, 2012; Chair of Fixed Term Statistics Faculty Search, 2016; Chair of Tenure Track Statistics Faculty Search, 2017; Chair of Tenure Track Statistics Faculty Search, 2024.

PUBLICATIONS:

Mezbahur Rahman (2025). Beta Distribution Goodness of Fit: A Comparative Study of Anderson-Darling, Kolmogorov-Smirnov, Shapiro-Francia and Chi-Square Tests. *Mathematics and Computer Science: Research Updates Vol 7*, Chapter 5, 131-138.

Mezbahur Rahman and Rebecca K Sulley (2025). Goodness-of-Fit in Shifted Exponential Distribution. *Open Journal of Statistics*, **15**(2), 243-250.

Mezbahur Rahman, Md Iftekhar Amin, and Mahmudul Hasan (2025). A note on Beta Distribution goodness-of-fit. *Open Journal of Statistics*, **15**(1), 35-40.

Chrisantus Bongbeebina **and Mezbahur Rahman** (2024). ASSESSING HOMOGENEITY: A COMPARATIVE STUDY FOR ROBUST STATISTICAL ANALYSIS. *Far East Journal of*

Mathematical Sciences (FJMS), **142**(2), 139-171.

Mezbahur Rahman, Md Iftekhar Amin, Christanus Bongbeebina, and Shree Krishna Nyaupane (2024). A Note on Testing for the First Shape Parameter in Beta Distribution. Far East Journal of Theoretical Statistics, **68**(2), 227-235.

Mezbahur Rahman and Md Iftekhar Amin (2024). A Note on Parameter Estimation in Beta Distribution. Far East Journal of Theoretical Statistics, **68**(2), 255-262.

Kuukua Egyinba Abraham and **Mezbahur Rahman** (2024). Comparative Analysis of Multiple Comparison Procedures on Median Household Income Across US Census Bureau's Nine Divisions. Far East Journal of Theoretical Statistics, **68**(3), 271-304.

Mezbahur Rahman (2022). A Note on Hosmer-Lemeshow Test in Logistic Models. Far East Journal of Theoretical Statistics, **64**, 69-87.

Mezbahur Rahman (2021). A NOTE ON ODDS RATIO STANDARD ERROR IN LOGISTIC REGRESSION. Far East Journal of Theoretical Statistics, **63**(2), 85-91.

Mezbahur Rahman and Galkande Iresha Premarathna (2021). "Parameter Estimation for the Mixtures of Normal Distributions using Discriminant Analysis". Far East Journal of Theoretical Statistics, **61**(1), 1-20.

Mezbahur Rahman, Rachel Holmes, Matthew Nemitz, and William Tanberg (2020). "Bayesian Estimation in Exponential Distribution Re-Visited". Far East Journal of Mathematical Sciences (FJMS), **125**(1), 59-68.

Mezbahur Rahman and Sabiha Mahzabeen (2019). "Adaptive Smoothing Parameter in Kernel Density Estimation". Far East Journal of Mathematical Sciences (FJMS), **118**(2), 107-127.

Mayooran Thevaraja and **Mezbahur Rahman** (2019). "Regression Analysis Based On Copula Theory – By Using Gaussian Family Copula". International Journal of Statistics and Reliability Engineering, **6**(1), 24-28.

Mezbahur Rahman and Sabiha Mahzabeen (2018). "Maximum Likelihood Parameter Estimation for the mixtures of Normal Distributions". Advances and Applications in Statistics, **53**(5), 501-518.

Mezbahur Rahman and Sabiha Mahzabeen (2018). "Parameter Estimation for the mixtures of Normal Distributions". Far East Journal of Theoretical Statistics, **54**(5), 453-461.

Mezbahur Rahman and Han Wu (2017). "Tests for Exponentiality: A Comparative Study". American Journal of Applied Mathematics and Statistics, **5**(4), 125-135.
<http://pubs.sciepub.com/ajams/5/4/3>

Mezbahur Rahman and Thevaraja Mayooran (2017). “Simulated Tests for Normality”. International Journal of Statistical Sciences (IJSS). **15**.

Mezbahur Rahman, Sabiha Mahzabeen, and Han Wu (2017). “A Note on Testing for the Parameters in Gamma Distribution”. Far East Journal of Theoretical Statistics, **53**(5), 251-258.

Mezbahur Rahman, Sabiha Mahzabeen, and Han Wu (2017). “Testing the Shape Parameter in Gamma Distribution.” Far East Journal of Theoretical Statistics, **53**(3), 167-174.

Md Nur Islam and **Mezbahur Rahman** (2017). “A Note on Beta Weibull Distribution MLE”. International Journal of Research and Scientific Innovation (IJRSI), **IV**(II), 1-6.

Han Wu, **Mezbahur Rahman**, and Shaha Alam Patwary (2016). “A Study of a Generalized Modified Weibull Model: An Exponentiated Weibull Case”. Advances and Applications in Statistics, **49**(5), 357-367.

Faysal I Satter and **Mezbahur Rahman** (2016). “Estimating Beta Inverse Weibull Distribution by the Method of Quantile Estimates”. International Journal of Research and Innovation in Applied Science (IJRIAS) www.ijrias.org, **I**(VI), 1-9.

Mezbahur Rahman, Samah Al-thubaiti, Reid W Breitenfeldt, Jinzhu Jiang, Elliott B Light, Rebekka H Molenaar, Mohammad Shaha A Patwary, and Joshua A Wuollet (2016). “A Note on Adaptive Box-Cox Transformation Parameter in Linear Regression”. International Journal of Research and Innovation in Applied Science (IJRIAS) www.ijrias.org, **I**(IV), 1-9.

Mohammad Shaha Alam Patwary, D. V. Gokhale, and **Mezbahur Rahman** (2016). “On Testing Equality of Two Independent Proportions: To Pool Or Not To Pool”. Far East Journal of Theoretical Statistics, **52**(3), 193-312.

Jianliang Jin and **Mezbahur Rahman** (2016). “Some Analysis on Estimators of the Population Total in Finite Population Sampling”. Far East Journal of Theoretical Statistics, **52**(2), 89-113.

Mezbahur Rahman and Qichao Zhang (2016). “Comparison Among Pearson Correlation Coefficient Tests”. Far East Journal of Mathematical Sciences, **99**(2), 237-255.

Mezbahur Rahman, Dayeong An, and Mohammad Shaha Alam Patwary (2016). “Method of Product Spacings Parameter Estimation for Beta Inverse Weibull Distribution”. Far East Journal of Theoretical Statistics, **52**(1), 1-15.

Mohammad Shaha Alam Patwary and **Mezbahur Rahman** (2015). “Coherent form of the Non-central χ^2 Distribution”. Far East Journal of Theoretical Statistics, **51**(3), 87-101.

Mezbahur Rahman, Dayeong An, and Mohammad Shaha Alam Patwary (2015). “Method of Moments Parameter Estimation for Beta Inverse Weibull Distribution”, Far East Journal of Mathematical Sciences (FJMS), **97**(5), 655-665.

Mezbahur Rahman and Mohammad Shaha Alam Patwary (2015). "A Note on Unequal Probability Sampling in Bootstrap Sampling", *Advances and Applications in Statistics*, 44(3), 191-200.

Dayeong An and **Mezbahur Rahman** (2015). "Maximum Likelihood Parameter Estimation for Beta Inverse Weibull Distribution", *Far East Journal of Mathematical Sciences (FJMS)*, 97(2), 131-137.

Mezbahur Rahman, Faysal Satter, and Han Wu (2014). "Fixed Regressors in Bootstrap Regression", *Advances and Applications in Statistics*, 39(2), 95-108.

Mezbahur Rahman and Han Wu (2013). "A Note on Normality Tests Based on Moments". *Far East Journal of Mathematical Sciences (FJMS)*, 79(2), 273-282.

Mezbahur Rahman and Han Wu (2013). "Tests for Normality: a Comparative Study". *Far East Journal of Mathematical Sciences*, 75(1), 143-164.

William Young and **Mezbahur Rahman** (2012). "A note on comparing two independent population means". *Far East Journal of Theoretical Statistics*, 40(2), 145-157.

Brian P. Barthel and **Mezbahur Rahman** (2012). "Comparing Contingency Table Tests in Logistic Regression Using Bootstrap Sampling". *Advances and Applications in Statistics*, 30(1), 45-75.

Mezbahur Rahman, Katherine A. Holt and Patrick A. O'Connor (2012). "Inferences in Logistic Models along with Estimation of Parameters using Discriminant Function Approach". *Far East Journal of Theoretical Statistics*, 39(1), 53-66.

Mezbahur Rahman and Namyong Lee (2011). "A Note on Box-Cox Transformation and Application in Microarray Data". *Journal of the Korean Data & Information Science Society*, 22(5), 967-976.

Mezbahur Rahman and S. M. Muraduzzaman (2011). "Contingency Table Tests in Logit Models". *Journal of Applied Statistical Science*, 18(4).

Mezbahur Rahman and S. M. Muraduzzaman (2010). "Likelihood Ratio in Estimating Gamma Distribution Parameters." *Journal of the Korean Data & Information Science Society*, 20(3), 467-476.

Mezbahur Rahman (2010). "Likelihood Ratio in Testing Exponentiality". *Far East Journal of Theoretical Statistics*, 23(1), 7-24.

Daniel M. Froelich and **Mezbahur Rahman** (2009). "A Note on the Choice of the Smoothing Parameter in the Kernel Density Estimate." *BRAC University Journal*, 6(1), 59-68.

Mezbahur Rahman and Larry M. Pearson (2009). "Comparing Locations Using Medians: Exact and Asymptotics". *International Journal of Statistical Sciences*, 9, 209-215.

Mezbahur Rahman and Larry M. Pearson (2009). "Estimation of the Multivariate Box-Cox Transformation Parameters." *World Scientific Review Volume*, Ch 10, 12-29.

Larry M. Pearson and **Mezbahur Rahman** (2008). "Quantile Estimates in Two-Parameter Gamma Distributions." *Journal of Statistical Research*, 42(2), 141-149.

Mezbahur Rahman, Larry M. Pearson, and Kumiko Suzuki (2008). "Significance Testing for Cronbach's Alpha." *Journal of Probability and Statistical Science*, 7(1), 29-41.

Md. Masud Rana, Md. Azizul Baten, and **Mezbahur Rahman** (2008). "Technical Inefficiency Effects and Technological Change in Bangladesh Food Industry." *Journal of the Korean Data & Information Science Society*, 19(4), 1449-1463.

Mezbahur Rahman and Larry M. Pearson (2008). "Anderson-Darling Statistic in Estimating the Box-Cox Transformation Parameter." *Journal of Applied Probability and Statistics*, 3(1), 45-57.

Mezbahur Rahman and Larry M. Pearson (2008). "A Note on the Maximum Likelihood Box-Cox Transformation Parameter." *Journal of Probability and Statistical Science*, 6(2), 155-168.

Mezbahur Rahman, Larry M. Pearson and Uros R. Martinovic (2007). "Method of Product Spacings in the Two-Parameter Gamma Distribution". *Journal of Statistical Research*, 41(1), 51-58.

Mezbahur Rahman and Rumanur Rahman (2007). "Testing the Center Using Median", *International Journal of Statistical Sciences*, 6, 163-179.

Mezbahur Rahman and Larry M. Pearson (2007). "A Note on the Modified Box-Cox Transformation". Festschrift in Honor of Distinguished Professor Mir Masoom Ali, Ball State University, Indiana, 106-115.

William C. Brown, **Mezbahur Rahman** and Travis Hacker (2006). "Home Page Usability and Credibility: A Comparison of the Fastest Growing Companies to the Fortune 30 and the Implications for IT Governance", *Information Management and Computer Security*, 14(3), 140-154.

Mezbahur Rahman, Larry M. Pearson and Rumanur Rahman (2006). "Quantiles for the Mixtures of Normal Distributions." *International Journal of Mathematical Education in Science and Technology*, 37(3), 352-358.

Mezbahur Rahman, Larry M. Pearson and Herbert C. Heien (2006). "A modified Anderson-Darling test for uniformity." *Bulletin of the Malaysian Mathematical Sciences Society*, 29(1), 11-16.

Herbert C. Heien and **Mezbahur Rahman** (2005). "Revisiting the Digits of PI and Their Randomness." *International Journal of Statistical Science (IJSS)*, 4, 13-24.

Benjamin Chastek and **Mezbahur Rahman** (2005). "Revisiting the Kendall Tau Table Giving P-values." *Journal of the Korean Data and Information Science Society*, 16(2), 477-505.

Mezbahur Rahman and Shuvro Chakrobarthy (2004). "Tests for Uniformity: A Comparative Study." *Journal of the Korean Data and Information Science Society*, 15(1), 211-218.

Mezbahur Rahman and Shuvro Chakrobarthy (2004). "Significance Testing in Exact Logistic Multiple Regression". *Bulletin of the Malaysian Mathematical Society*, 27(2), 1-9.

William Baumann, Herbert Heien and **Mezbahur Rahman** (2004). "An Application of Logistic Regression in Estimation and Prediction." *Pakistan Journal of Statistics*, 20(1), 37-47.

Mezbahur Rahman and Larry M. Pearson (2003). "A Note on Estimating Parameters in the Two-Parameter Weibull Distribution." *Journal of the Korean Data & Information Science Society*, 14(4), 1091-1102.

Mezbahur Rahman and Larry M. Pearson (2003). "Goodness-of-fit test for two-parameter exponential distributions", Proceedings of the 8th Bangladesh Statistical Association Conference.

Mezbahur Rahman (2003). "Testimation of a Probability Density: The Exponential Case", *Journal of Statistical Research*, 37(1), 95-102.

Mezbahur Rahman and D. V. Gokhale (2007). "On the Box-Cox Transformation in Semiparametric Density Estimation". *Journal of Indian Statistical Association (JISA)*, 6, 163-179.

Mezbahur Rahman and Larry M. Pearson (2003). "A Note on Estimating Parameters in Two-Parameter Pareto Distributions", *International Journal of Mathematical Education in Science and Technology*, 34(2), 298-306.

Mezbahur Rahman and D. V. Gokhale (2001). "A Note on Two Stage Shrinkage Testimation in Regression Function Estimation", *Journal of Indian Statistical Association (JISA)*, 39(2), 161-168.

Mezbahur Rahman and Larry M. Pearson (2001). "Sample Entropy in Estimating the Box-Cox Transformation". *Journal of the Korean Data & Information Science Society*, 12(1), 103-125.

Mezbahur Rahman, Judy Cortes (an elementary school teacher), Ronald Hanshew (un undergraduate student), and Cyrus Pardis (mathematics faculty at California State University, Monterey Bay) (2001). "A note on Logistic Regression", *Journal of Statistics & Management Systems*, 4(2), 175-187.

Mezbahur Rahman and Larry M. Pearson (2002). "Moments for Order Statistics in Scale and Shift Parameter Exponential Distribution". *Journal of Statistical Research*, 36(1), 75-83.

Mezbahur Rahman and Larry M. Pearson (2002). “A Note on Estimating Parameters in Two-Parameter Exponential Distributions”. *Journal of Statistical Computation and Simulation*, 70, 371-386.

Mezbahur Rahman and Aman Ullah (2000): “Improved Combined Parametric and Nonparametric Regressions: Estimation and Hypothesis Testing”. Handbook of Applied Econometrics and Statistical Inference, edited by Aman Ullah, Alan Wan, and Anoop Chaturvedi, Marcel Dekker Inc., New York, 159-176.

Mezbahur Rahman and Larry M. Pearson (2000): “Shapiro-Francia W’ Statistic Using Exclusive Monte Carlo Simulation”. *Journal of the Korean Data & Information Science Society*, 11(2), 139-155.

Mezbahur Rahman and Mir Masoom Ali (Department of Mathematical Sciences, Ball State University) (1999): “Quantiles for Shapiro-Francia W’ Statistic”. *Journal of the Korean Data & Information Science Society*, 10(1), 1-10.

Mezbahur Rahman (1999): “Estimating the Box-Cox Transformation via Shapiro-Wilk W Statistic”. *Communications in Statistics – Simulation and Computation*, 28(1), 223-241.

Mezbahur Rahman and Benjamin G. Lorica (Ex Director of the IMSA at CSUMB) (1998): “Reduced Sum of Squares in Attribute Relative Importance Computation in Full Profile Conjoint Analysis”. *Journal of Information and Optimization Sciences*, India, 20(1), 113-120.

Mezbahur Rahman, D. V. Gokhale (Department of Statistics, University of California Riverside) and Aman Ullah (Department of Economics, University of California Riverside) (1997): “A Note on Combining Parametric and Non-parametric Regression”. *Communications in Statistics – Simulation and Computation*, 26(2), 519-529.

Mezbahur Rahman, R. J. Beaver and D. V. Gokhale (Department of Statistics, University of California Riverside) (1997): “A Note on Estimating the Combining Constant in Semi-parametric Density Estimation”. *REBRAPE: Brazilian Journal of Probability and Statistics*, 11, 37-50.

Mezbahur Rahman, D. V. Gokhale (Department of Statistics, University of California Riverside) and Aman Ullah (Department of Economics, University of California Riverside) (1997): “On Testimation of a Probability Density: Normal Case. *Communications in Statistics – Theory and Methods*, 26(2), 263-278.

D. V. Gokhale (Department of Statistics, University of California Riverside) and **Mezbahur Rahman** (1997): “On Semi-Parametric Estimation of a Probability Density”. *Statistics of Quality: Dedicated to Don Owen*, edited by Subir Ghosh, William R. Schucany, and William B. Smith, Marcel Dekker Inc., New York, 387-394.

Mezbahur Rahman and D. V. Gokhale (Department of Statistics, University of California Riverside) (1996): “On Estimation of Parameters of the Exponential Power Family of Distributions”. *Communications in Statistics – Simulation and Computation*, 25(2), 291-299.

Mezbahur Rahman, B. C. Arnold and D. V. Gokhale (Department of Statistics, University of California Riverside), and Aman Ullah (Department of Economics, University of California Riverside) (1996): “Data-Based Selection of the Smoothing Parameter in Kernel Density Estimation Using Exact and Approximate MISE”. Technical Report No. 229, Department of Statistics, University of California Riverside.

Mezbahur Rahman and D. V. Gokhale (Department of Statistics, University of California Riverside) (1996): “Testimation in Regression Parameter Estimation”. *Biometrische Zeitschrift (Biomedical Journal)*, Germany, 38(7), 809-817.

BOOK:

Statistics Introduction. **Mezbahur Rahman**, Deepak Sanjel, and Han Wu (2012). Kendall Hunt.

PRESENTATIONS:

Presented the following paper at the regular seminar series at the Division of Statistics at University of California Davis, February 1996. Mezbahur Rahman, B. C. Arnold and D. V. Gokhale, and Aman Ullah (1996): “Data-Based Selection of the Smoothing Parameter in Kernel Density Estimation Using Exact and Approximate MISE”. Technical Report No. 229, Department of Statistics, University of California Riverside.

Presented the following paper at the regular seminar series at the Department of Statistics at University of California Riverside, June 1995. Mezbahur Rahman, D. V. Gokhale and Aman Ullah (1997): “On Testimation of a Probability Density: Normal Case.” *Communications in Statistics – Theory and Methods*, 26(2), 263-278.

Presented the following paper at the regular seminar series at the Institute of Mathematical Sciences and Applications at CSUMB, November 1998. Mezbahur Rahman (1999): “Estimating the Box-Cox Transformation via Shapiro-Wilk W Statistic”. *Communications in Statistics – Simulation and Computation*, 28(1), 223-241.

Presented the following paper as an invited guest at the Division of Statistics at Northern Illinois University, November 1996. Mezbahur Rahman, R. J. Beaver and D. V. Gokhale (1997): “A Note on Estimating the Combining Constant in Semi-parametric Density Estimation”. *REBRAPE: Brazilian Journal of Probability and Statistics*, 11, 37-50.

Mezbahur Rahman and Larry M. Pearson (2003). “Goodness-of-fit test for two-parameter exponential distributions”, presented at MSU.

Mezbahur Rahman and Larry M. Pearson (2003). “Goodness-of-fit test for two-parameter exponential distributions”, presented at the 8th Bangladesh Statistical Association Conference.

Mezbahur Rahman and Larry M. Pearson (2004). “A Note on Goodness of Fit in Logit Regression”, presented at the Bangladesh Statistical Association Seminar on Use of Statistics in Agricultural Research.

Mezbahur Rahman and Larry M. Pearson (2006). “Estimation of the Multivariate Box-Cox Transformation Parameters”, presented at the International Conference on Multivariate Statistical Methods in the 21st Century, Indian Statistical Institute, Kolkata, India.

Mezbahur Rahman and Larry M. Pearson (2007). “A Note on the Modified Box-Cox Transformation”. Conference in Honor of Distinguished Professor Mir Masoom Ali, Ball State University, Indiana, May 18-19.

Mezbahur Rahman and Larry M. Pearson (2007). “Goodness of Fit in Logit Models”, The 9th Islamic Countries Conference on Statistical Sciences (ICCS-IX), Shah Alam, Malaysia.

Mezbahur Rahman and Larry M. Pearson (2007). “Anderson-Darling Statistic in Estimating Box-Cox Transformation Parameter”, The 9th Islamic Countries Conference on Statistical Sciences (ICCS-IX), Shah Alam, Malaysia.

Mezbahur Rahman (2009). “Likelihood Ratio in Testing Exponentiality”, the 5th Asian Mathematical Conference, Putra World Trade Centre, Kuala Lumpur, Malaysia.

Mezbahur Rahman and Larry M. Pearson (2009). “A Note on Modified Box-Cox Transformation” the MNS (Mathematics and Natural Sciences) department at BRACU, Bangladesh, 29 October, 2009.

Mezbahur Rahman, Mentoring Undergraduates in Mathematical and Biological Sciences to Succeed, Minnesota Council of Teachers of Mathematics Fall Conference, October 22, 2010.

Mezbahur Rahman and Namyong Lee, Box-Cox Transformation in Microarray Data, University of California, Riverside, April 16, 2011.

Herbert C. Heien and Mezbahur Rahman, Revisiting the Digits of π and Their Randomness, Minnesota State University, Mankato, March 14, 2012.

Mezbahur Rahman and Han Wu, Comparing Normality Tests, International Conference hosted by Bangladesh Statistical Association, Dhaka, December 27, 2012.

Mezbahur Rahman and Dayeong An, Maximum Likelihood Estimation in Beta Weibull Distribution, Bangladesh Statistical Association (BSA), University of Dhaka, Dhaka, Bangladesh, January 02, 2015.

Mezbahur Rahman and Faysal Satter, Estimating Beta Inverse Weibull Distribution by the Quantile Estimation Method, Dhaka University Statistics Department Alumni Association (DUSDAA), Department of Statistics, Biostatistics & Informatics, University of Dhaka, Bangladesh, December 28, 2015.

Mohammad Shaha Alam Patwary, D. V. Gokhale, and Mezbahur Rahman (2016). "On Testing Equality of Two Independent Proportions: To Pool Or Not To Poo". *Far East Journal of Theoretical Statistics*, 52(3), 193-312. Presented at University of California, Riverside on November 03, 2016.

Mezbahur Rahman, Katherine A. Holt and Patrick A. O'Connor (2012). "Inferences in Logistic Models along with Estimation of Parameters using Discriminant Function Approach". *Far East Journal of Theoretical Statistics*, 39(1), 53-66. Presented at Department of Statistics, University of Dhaka, Bangladesh on February 23, 2019.

Mezbahur Rahman and Galkande Iresha Premarathna (2021). "Parameter Estimation for the Mixtures of Normal Distributions using Discriminant Analysis". Institute of Statistical Research Conference, Dhaka University, Bangladesh, December 27, 2019.

CONFERENCES ATTENDED:

Southern California Statistical Association Meeting, 1994, Cal. State Dominiguez.

Joint Statistical Meetings, 1995, Orlando, Florida.

California Faculty Association, Los Angeles, 1996.

Joint Statistical Meetings, 1997, Anaheim.

CSU Social Science Research Council, 1998, Fresno.

Joint Statistical Meetings, 1998, Dallas.

SAS Users' Conference, 1998, Nashville.

Conference on Laboratory based education, 1999, MSU.

A Workshop on "Integrating an Off-Campus Full-Scale Production Facility into the Classroom Using the Internet" held in Grand Rapids, Michigan, held on July 17 & 18, 2000.

Joint Statistical Meetings 2000, Indianapolis, Indiana.

MAA-PREP workshop on An Introduction to Statistical Methods Based on Regression, 2002, Oberlin, Ohio.

Bangladesh Statistical Association 2003, Dhaka, Bangladesh.

Bangladesh Statistical Association Seminar on Use of Statistics in Agricultural Research, 2004, Bangladesh Agricultural University, Mymensingh, Bangladesh.

Joint Statistical Meetings 2005, Minneapolis, Minnesota.

International Conference on Multivariate Statistical Methods in the 21st Century, Indian Statistical Institute, Kolkata, India, December 28-29, 2006.

Conference in Honor of Distinguished Professor Mir Masoom Ali, Ball State University, Indiana, May 18-19, 2007.

Nobel Conference, Gustavus College, St. Peter, Minnesota, October 2-3, 2007.

The 9th Islamic Countries Conference on Statistical Sciences (ICCS-IX), Shah Alam, Malaysia, December, 2007.

The 5th Asian Mathematical Conference, Putra World Trade Centre, Kuala Lumpur, Malaysia, June 2009.

Bangladesh Statistical Association Seminar On Economic Statistics: Collection and Dissemination, N.E.C. Auditorium, Planning Commission, Dhaka, 22 May, 2009.

Joint Statistical Meetings, Vancouver, BC, Canada, August, 2010.

Minnesota Council of Teachers of Mathematics Fall Conference, October 22, 2010.

Conference in honoring Professor D. V. Gokhale on his 75th birthday, University of California, Riverside, April 16, 2011.

International Conference hosted by Bangladesh Statistical Association, Dhaka, December 27-29, 2012.

Attended a Symposium on Data Science & Statistics in Reston, Virginia, May 16-19, 2018.

JOURNALS REFEREED:

American Journal of Mathematical and Management Sciences (AJMMS)

BRAC University Journal

Bulletin of the Malaysian Mathematical Society

Communications in Statistics – Simulation and Computation

Communications in Statistics – Theory and Methods

Computational Statistics and Data Analysis

Econometric Reviews

Empirical Economics
International Journal of Statistical Sciences
Journal of Applied Probability and Statistics
Journal of Inequalities and Applications
Journal of Mathematical and Computer Modeling
Journal of Probability and Statistical Science (JPSS)
Journal of Statistical Computation and Simulation (JSCS)
Journal of Statistical Studies
Journal of Statistical Research
Journal of the Water Resources Management
METRON- International Journal of Statistics
Nonparametric Statistics
Pakistan Journal of Statistics
Statistics and Computing; Statistical Methodology

BOOK REVIEWS:

Intermediate Algebra, Second Edition, by Elaine Hubbard and Ronald D. Robinson, Houghton Mifflin Company, Boston, 2000.

Served as a curriculum and test writer in the field of Mathematics and Statistics for the United States Academic Decathlon in conjunction with Dr. Charles Waters, 2001.

Elementary Statistics, 9th edition, by Mario F. Triola, Prentice Hall, 2003.

Statistics: Informed Decisions Using Data, 2nd edition, by Michael Sullivan, III, Prentice Hall, 2005.

Discovering Statistics by Daniel T. Larose, W. H. Freeman and Company, 2007.

Understanding Basic Statistics by Brase, 2007.

DISSERTATION REVIEWS: Midwestern Association of Graduate Schools (MAGS) “Best Thesis Award” (2000): Moment inequalities for statistics in dependent random variables and their economic applications by Rustam Ibragimov.

GRADUATE THESIS: Revisiting the Digits of π and their Randomness by Herbert C. Heien, 2005.

GRADUATE RESEARCH PAPER:

Data Fitting with Orthogonal Polynomials and Finding Orthogonal Contrast Coefficients by Erik Sweet, 2003.

Revisiting the Kendall Tau Statistic and Kendall's Tau Table Giving P-values by Benjamin Chastek, 2004.

Testing for Center Using the Median by Sheikh Rumanur Rahman, 2005.

Revisiting the Digits of π and Their Randomness by Herbert C. Heien, 2005.

Kumiko Suzuki (2008). "Inferences for Chronbach's Alpha."

Pataranut Rujirawat (2008). "Rank transform methods via modified Box-Typed small-sample approximations under general nonparametric models in unbalanced two-way factorial design for detecting differential gene expression in anthracycline/cytarabine response in patients with acute myeloid leukemia."

Harshani Herath (2008). "Goodness-of-fit Tests for the Logistic Regression Model."

Richard A Hillestad (2009). "Receiver Operating Characteristic Curve and Its Uses."

Dan Froelich (2009). "Mean Integrated Squared Error in the Kernel Density Function Estimation."

Khoa Nguyen (2010). "Cronbach's Alpha in Reliability Testing."

Helen Khun (2011). "Kernel Estimate in Logistic Regression".

A paper is supervised for graduate research conference at MSU: Khoa Dinh, Estimating Parameters in Beta Inverse Weibull Distribution, 2011.

Presentation by Wendy Hoffman, Bootstrap Sampling, Departmental Seminar for Bioinformatics, 2011.

Khoa Dinh (2012). "Properties of Beta Inverse Weibull Distribution".

Patrick O'Connor (2012). "Cluster Analysis".

William Young (2012). "A note on comparing two independent population means".

Wendy L. Hoffman (2013). "Identifying Influential Variables of Student Academic Engagement."

Yuyoung Park (2013). "An Analysis of Crime Rates in the Minnesota 2005-2010."

Duo Zheng (2014). "Method of Moment Parameter Estimation of Beta Inverse Weibull Distribution."

Yasotha (Sharon) K Veerayah (2014). "Statistical Analysis on Factors that Affect Tuition Rate in Four-Year Institutions in United States."

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Faysal Satter (2014). "Estimating Beta Inverse Weibull Distribution by the Method of Quantile Estimate."

Efua E. Ephrim (2014). "Applied Regression Analysis: An Application on Fuel Consumption in forty-eight state".

Qichao Zhang (2015). "Estimation of Logistic Parameters using the Maximum Likelihood and Discriminant Analysis: Application to Nursing and ICU Data".

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Mei Phuong Luu (2015). "The Goodness of Fit in Logistic Regression".

Sokneang Durski (2015). "Influenza Outbreak Forecasting Model Using Time Series Analysis".

Sergey Arsentyev (2015). "Hedonic Housing Prices".

Mohammad Shaha Alam Patwary (2016). "On Testing Equality of Two Independent Proportions: To Pool or Not to Pool".

Samah Al-Thubaiti (2016). "The Effect of Transformation Type for Continuous Variable to Categorical Variable on Testing the Significance between two Categorical Variables in Logistic Regression".

Maryam Hakami (2016). "Health and Nutrition Study of Obesity Related to Physical Activities: Application of Multiple Logistic Regression Methods".

Rebakka Molenaar (2016). "Statistical Treatments of Studies of Pinned Animals: Sources of Contention".

Md Nur Islam (2017). "A Note On Beta Inverse Weibull Distribution MLE".

Lizzy Rono Jepng 'etich (2017). "Modelling and Analysis of Survival Times of Breast Cancer Victims Using Parametric Models".

Gulmira Fazilova (2018). "Modeling Bitcoin Time Series using ARIMA models".

Thevaraja Mayooran (2018). "Copula Theory and Regression Analysis".

Jacob Aaron Michels (2018). “An Exploration of Olmsted County Sample Data Using Survival Analysis”.

Andrew Jacobs (2019). “Using Data Analytics and Statistical Techniques to Examine Quarterback Evaluation”.

Jongyun Jung (2019). “A Statistical Analysis and Machine Learning of Genomic Data”.

Sabiha Mahzabeen (2019). “Adaptive Smoothing Parameter in Kernel Density Estimation and Parameter Estimation in Normal Mixture Distributions”.

Taeyoung Choi (2020). Improvement in Regression Analysis through Optimal Clustering Algorithms with Machine Learning.

Tracy Morrison (2021). Comparing Various Robust Estimation Techniques in Regression Analysis.

Brianna Klapoetke (2021). Sequential Probability Ratio Test and Experiment.

Afrah Alhamad (2021). Correlational Study: An Application of Factor Analysis on a Life Expectancy Data Set.

Aninda Roy (2022). Prediction of Abnormal Vaginal Discharge using Machine learning techniques among women living in rural and urban area of Tangail district, Bangladesh.

Erik Adu (2022). Predicting types of chest pain using Logistic regression.

Kuukua Egyinba Abraham (2024). Comparative Analysis of Multiple Comparison Procedures on Median Household Income Across US Census Bureau’s Nine Divisions.

Elizabeth Eccles (2024). Predicting Heart Disease Based on Patient Characteristics.

Robert Shields (2024). Utilizing a Bayesian Approach to Forecast Time Series

Christanus Bongbeebina (2024). Assessing Homogeneity: A Comparative Study for Robust Statistical Analysis

Shree Krishna Nyaupane (2024). Bayesian Time Series Analysis of Stock Prices and Volatility.

Miao Yu (2024). Time Series and Machine Learning Approaches for Predicting Influenza Incidence Using USA Surveillance.

SULLEY REBECCA KORANKYEWAA (2025). Comparative Forecasting of Stock Prices Using Traditional Time Series Models and Machine Learning Approaches.

Md Iftekhar Amin (2025). Predicting STUDENTS' performance by using various machine learning methods.

Divin Bebola (2025). Survey of Parameter Estimation Methods for Mixtures of Exponential and Mixtures of Normal Distributions.

Undergraduate Research:

Two students William Baumann and Herbert Heien participated in the poster presentation at the undergraduate research conference at MSU in 2003 and got the first prize in the category. Research topic: "An Application of Logistic Regression in Estimation and Prediction".

A paper titled "Inferences in Log-Rate Models" is completed by William Baumann and Herbert Heien and is submitted for publication to the undergraduate research journal at MSU, May 2003.

Three students Andrew Tackmann, Jonathan Hellman, and Jamie Johnson submitted a paper titled "Bird Keeping and Lung Cancer" to be presented in the undergraduate research conference at MSU in 2004.

A paper titled "Testing the Validity of the Logistic Link Function in Lung Cancer Data" presented by Harrison Quick at the Undergraduate Research Conference at MSU in 2008.

Choosing Between Parametric and Non-parametric Tests, Russ Johnson (Department of Mathematics & Statistics) *Mezbahur Rahman, Faculty Mentor (Department of Mathematics & Statistics)*, undergraduate research journal at MSU, 2009.

A grant proposal 'Title: Application to Kernel Density Estimate' was submitted to the undergraduate research conference at MSU by Md Rashedul Islam Jamy in 2010.

Took a group of students (Matthew Frederick Peterson (Econ), Michael Wagner Kuhnly (Stat), and Ana Konatar (Stat)) to Winona State University for the Midwest Undergraduate Data Analysis Competition as the faculty advisor along with Dr. Ishuan Li (Econ), April 2015.

REFERENCES:

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