

HRISHIKESH CHAKRABORTY

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Research Interests:

Hrishikesh Chakraborty has more than 20 years of collaborative, consulting, and methodological research experience in biostatistics, public health, biomedical, clinical, epidemiologic, and social science research. His research interests include clinical trials, cluster trials, probabilistic disease modeling, stochastic models, longitudinal data analysis methods, and predictive modeling. Dr. Chakraborty has published widely on a variety of topics in statistical and scientific journals, led workshops in different topics, and presented his research as a keynote, invited, and contributing speaker. He has received several awards for his published research articles. Dr. Chakraborty has served in projects as principal investigator, co-principal investigator, co-investigator, and senior statistician for various studies.

Education:

- Dr.PH: 2000 Department of Biostatistics, School of Public Health, University of North Carolina at Chapel Hill, North Carolina, USA.
- MS: 1998 Department of Biostatistics, School of Public Health, University of North Carolina at Chapel Hill, North Carolina, USA.
- MA: 1994 Department of Sociology, School of Arts and Science, Louisiana State University at Baton Rouge, Louisiana, USA.
- MSc: 1986 Department of Statistics, School of Arts and Science, Jahangirnagar University, Savar, Dhaka, Bangladesh.
- BSc: 1985 Department of Statistics, School of Arts and Science, Jahangirnagar University, Savar, Dhaka, Bangladesh.

Professional Experience:

- Aug 2011 to Date Associate Professor, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina.
- Jan 2013 to Date Director of Biostatistics Collaborative Research Core, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina.
- Jun 2012 to Date Director of Biostatistics and Epidemiology, Health Sciences South Carolina, University of South Carolina, Columbia, South Carolina.
- Aug 2011 to Dec 2012 Director, Health Science Research Core, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina.
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- Jan 2008 to Sept 2011 Adjunct Associate Professor , Department of Biostatistics, School of Public Health, University of North Carolina, Chapel Hill, North Carolina.
- May 2005 to Aug 2011 Senior Research Statistician, Biostatistics and Epidemiology Division, RTI International, Research Triangle Park, North Carolina.
- Oct 2005 to Aug 2011 Group Leader, Biostatistics and Epidemiology Division, RTI International, Research Triangle Park, North Carolina.
- July 2003 to Apr 2005 Research Statistician III, Statistics Research Division, RTI International, Research Triangle Park, North Carolina.
- Jan 2004 to Dec 2008 Adjunct Assistant Professor , Department of Biostatistics, School of Public Health, University of North Carolina, Chapel Hill, North Carolina.
- Feb 2001 to July 2003 Senior Biostatistician, Biostatistics Division, Quintiles, Inc., Morrisville, North Carolina.
- July 2000 to Feb 2001 Research Assistant Professor, Department of Biostatistics, School of Public Health, Emory University, Atlanta, Georgia.
- July 2000 to Feb 2001 Director of Biostatistics Consulting Center, Department of Biostatistics, School of Public Health, Emory University, Atlanta, Georgia.
- July 1999 to July 2000 Biostatistician (part-time), Rho World, Chapel Hill, North Carolina.
- Jan 1998 to July 1999 Biostatistician (part-time), FPG Child Development Center, University of North Carolina, Chapel Hill, North Carolina.
- June 1996 to July 2000 Biostatistician (part-time), Department of Infectious Diseases, School of Medicine, University of North Carolina, Chapel Hill, North Carolina.
- Aug 1994 to July 1996 Biostatistician (part-time), Department of Epidemiology, School of Public Health, University of North Carolina, Chapel Hill, North Carolina.
- Aug 1993 to Aug 1994 Graduate Research Assistant, Institute of Wetland Research, Coastal Fisheries, Louisiana State University at Baton Rouge, Louisiana.
- June 1992 to July 1993 Graduate Research Assistant, Department of Sociology and Louisiana Population Data Center, Louisiana State University at Baton Rouge, Louisiana.
- Jan 1989 to June 1992 Evaluation Officer, The Pathfinder International, MIS and Evaluation Division, country office at Dhaka, Bangladesh.
- July 1988 to June 1992 Lecturer (part-time), Computer and Information Technology Institute, Jahangirnagar University, Savar, Dhaka, Bangladesh.
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Publications: [* Student]

Peer Reviewed Journal Articles

1. **Chakraborty H**, Patted S, Farhnaz I*, and Revankar A (2016). Determinants of Intimate Partner Violence among HIV Positive and Negative Women in India. *Journal of Interpersonal Violence*. 31(3): 515-530.
 2. **Chakraborty H** and Ray G* (2015). Cluster Randomized Trials: Considerations for Design and Analysis. *Journal of Statistical Theory and Practice*. 9: 685–698.
 3. **Chakraborty H**, Iyer M, Weissman S, Duffus W, Stephens T, Samantapudi A*, and Albrecht A (2015). Disparities in Viral Load and CD4 Count Trends among HIV Infected Adults in South Carolina. *AIDS Patient Care and STDs*. 29(1); 26-32.
 4. **Chakraborty H**, Nyarko KA, Goco N, Moore J, Moretti-Ferreira D, Murray JC, and Wehby G, (2015). Folic Acid Fortification and Women’s Folate Levels in Selected Communities in Brazil – A First Look. *International Journal for Vitamin and Nutrition Research*. 84(5-6); 286-294.
 5. **Chakraborty H**, and Sen PK (2013). Resampling Method to Estimate Intracluster Correlation for Clustered Binary Data. *Accepted for publication to the Communication in Statistics-Theory and Methods*.
 6. Weissman S, Duffus W, Vyavaharkar M, **Chakraborty H**, Samantapudi A*, and Albrecht A (2015). Rural-urban differences in HIV viral loads and progression to AIDS among new HIV cases. *Southern Medical Journal*. 108(3); 180-188.
 7. Weissman S, Duffus W, Vyavaharkar M, Samantapudi A*, Shull KA, Stephens, TG, and **Chakraborty H** (2014). Defining the rural HIV epidemic: correlations of 3 definitions - South Carolina, 2005-2011. *Journal of Rural health*. 30(3):275-83.
 8. Saha SP, Bhattacharyya S, and **Chakraborty H** (2014). Solubilization of Immobilized Tricalcium Phosphate by Poly-3-hydroxybutyric Acid Accumulating Azotobacter Chroococcum MAL-201. *World Journal of Microbiology and Biotechnology*. 30(5), 1575-1582.
 9. Wallander JL, Biasini FJ, Thorsten V, Dhaded SM, Jong DM, Chomba E, Pasha O, Goudar S, Wallace D, **Chakraborty H**, Wright LL, McClure E, and Carlo WA (2014). Dose of Early Intervention Treatment during Children's First 36 months of Life is Associated with Developmental Outcomes: An Observational Cohort Study in Three Low/Low-Middle Income Countries. *BMC Pediatrics*, 14:281: DOI: 10.1186/1471-2431-14-281
 10. **Chakraborty H** (2013). Statistical models to estimate male-to-female HIV transmission probabilities. *Model Assisted Statistics and Applications*. 8: 135-141.
 11. **Chakraborty H** (2013). Mixed Model Variance Adjustments when Missing Values are Multiply Imputed. *Journal of Medical Statistics and Informatics, J Med Stat Inform*. 2013; 1:2-6.
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12. Banister CE, Messersmith AR, **Chakraborty H**, Wang Y, Spiryda LB, Glover SH, Pirisi L, Creek KE (2013). HPV prevalence at enrollment and baseline results from the Carolina Women's Care Study, a longitudinal study of HPV persistence in women of college age. *International Journal of Women's Health*, 5; 379-388.
 13. Lau C; Ambalavanan N, **Chakraborty H**, Wingate MS, Carlo WA (2013). Extremely Low Birth Weight and Infant Mortality Rates in the United States. *J Pediatric*. 131(5):855-60.
 14. Wehby GL, Félix TM, Goco N, Richieri-Costa A, **Chakraborty H**, Souza J, Pereira R, Padovani C, Moretti-Ferreira D, and Murray JC (2013). High Dosage Folic Acid Supplementation, Oral Cleft Recurrence and Fetal Growth. *International Journal of Environmental Research and Public Health*. 10(2):590-605.
 15. Camila VN, Wehby GL, Fernanda Q, **Chakraborty H**, Temis F, Norman G, Janet M, Eduardo G, Lorene L, Carla A, Jeffrey MC (2013). Periconceptional use of folic acid and risk of miscarriage – Findings of the Oral Cleft Prevention Program in Brazil. *Journal of Perinatal Medicine*. 41(4): 461-466.
 16. Minhajuddin Abu, and **Chakraborty H** (2013). A Variable Selection Algorithm Incorporating Investigator Preference and Missing Proportions for Linear Mixed Model. *Annals of Biometrics & Biostatistics*. 1(2): 1010. [Peer-reviewed online publication]
 17. Wehby GL, Goco N, Moretti-Ferreira D, Felix T, Richieri-Costa A, Padovani C, Queiros F, Guimaraes CV, Pereira R, Litavec S, Hartwell T, **Chakraborty H**, Javois L, Murray JC (2012). Oral cleft prevention program (OCP). *BMC Pediatric*. 12(1):184.
 18. Carlo WA, Goudar SS, Pasha O, Chomba E, McClure EM, Biasini FJ, Wallander JL, Thorsten V, **Chakraborty H**, Wright LL; Brain Research to Ameliorate Impaired Neurodevelopment-Home-based Intervention Trial Committee (2012). Neurodevelopmental outcomes in infants requiring resuscitation in developing countries. *J Pediatrics*. 160(5):781-5.
 19. Engmann C, Garces A, Jehan I, Ditekemena J, Phiri M, Mazariegos M, Chomba E, Pasha O, Tshetu A, McClure EM, Thorsten V, **Chakraborty H**, Goldenberg RL, Bose C, Carlo WA, Wright LL (2012). Causes of community stillbirths and early neonatal deaths in low-income countries using verbal autopsy: an International, Multicenter Study. *J Perinatology*. 32(8):585-92.
 20. **Chakraborty H**, Wehby G, Goco N, Moore J, Kindem M, Vila-Nova C, Pereira R, Souza J, Viegas A, Felix T, Moretti-Ferreira D, Richieri-Costa A, and Murray JC. (2011). Challenges and implemented solutions for the oral cleft prevention program in Brazil. *International Journal of Medicine and Public Health*, 1(3), 9-16.
 21. **Chakraborty H**, Newman JE, Woelk G, Hemingway-Foday J, Iriondo-Perez J, Akam W, Balimba A, Kalenga L, Mbaya M, Mukumbi H, Niyongabo T, Molu M, Ryder R, and Huebner R. (2011). Antiretroviral Therapy Initiation and CD4 Progression over time among HIV Infected Adults in Central Africa. *International Journal of Medicine and Public Health*, 1(4), 3-11.
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22. Wehby GL, Castilla EE, Goco N, Rittler M, Cosentino V, Javois L, Kindem M, **Chakraborty H**, Dutra G, López-Camelo JS, Orioli IM and Murray JC (2011). The effect of systematic pediatric care on neonatal mortality and hospitalizations of infants born with oral clefts. *BMC Pediatrics*, 11:121.
 23. Krebs NF, Mazariegos M, Tshetu A, Bose C, Sami N, Chomba E, Carlo W, Goco N, Kindem M, Wright LL, Hambidge KM; **Complementary Feeding Study Group** (2011). *Meat consumption is associated with less stunting among toddlers in four diverse low-income settings*. *Food Nutr Bull*. 32(3):185-91.
 24. Krebs NF, Hambidge M, Mazariegos M, Westcott J, Goco N, Wright LL, Koso-Thomas M, Tshetu A, Bose C, Pasha O, Goldenberg R, Chomba E, Carlo W, Kindem M, Das A, Hartwell T, McClure E, and the **Complementary Feeding Study Group** (2011). *Complementary feeding: a Global Network cluster randomized controlled trial*. *BMC Pediatric*. 11: 4.
 25. Engmann C, Jehan I, Ditekemena J, Garces A, Phiri M, Mazariegos M, Chomba E, Pasha O, Tshetu A, McClure EM, Thorsten V, **Chakraborty H**, Goldenberg RL, Bose C, Carlo WA, and Wright LL. (2011). An alternative strategy for perinatal verbal autopsy coding: Single versus multiple coders. *Tropical Medicine and International Health*, 16(1), 18-29.
 26. Kelly PJ, Goudar SS, **Chakraborty H**, Moore J, Derman R, Kodkany B, Bellad M, Naik VA, Angolkar M, Bloch M. (2011). Pregnant women and children's exposure to tobacco and solid fuel smoke in southwestern India. *The Journal of Maternal-Fetal & Neonatal Medicine*, 24(7):973-7.
 27. Carlo WA, McClure EM, Chomba E, **Chakraborty H**, Hartwell TD, Harris H, Lincetto O, and Wright LL. (2010). Newborn care training of midwives and neonatal and perinatal mortality rates in a developing country. *Pediatrics*, 126(5), E1064-E1071.
 28. Carlo WA, Goudar SS, Jehan I, Chomba E, Tshetu A, Garces A, Parida S, Althabe F, McClure EM, Derman RJ, Goldenberg RL, Bose C, Hambidge M, Panigrahi P, Buekens P, **Chakraborty H**, Hartwell TD, Moore J, Wright LL, and the FIRST BREATH Study Group. (2010). High mortality rates for very low birth weight infants in developing countries despite training. *Pediatrics*, 126(5), E1072-E1080.
 29. Wallander JL, McClure E, Biasini F, Goudar S, Pasha O, Chomba E, Shearer D, Wright L, Thorsten V, **Chakraborty H**, Dhaded SM, Mahantshetti NS, Bellad RM, Abbasi Z and Carlo WA. (2010). Brain Research to Ameliorate Impaired Neurodevelopment: Home-based Intervention Trial (BRAIN-HIT). *BMC Paediatrics*, 10, 27.
 30. Carlo WA, Goudar SS, Jehan I, Chomba E, Tshetu A, Garces A, Parida S, Althabe F, McClure EM, Derman RJ, Goldenberg RL, Bose C, Krebs NF, Panigrahi P, Buekens P, **Chakraborty H**, Hartwell TD, Wright LL, and the FIRST BREATH Study Group. (2010). Newborn Care Training and Perinatal Mortality in Communities in Developing Countries. *The New England Journal of Medicine*, 362(7): 614-623.
 31. **Chakraborty H**, Moore J, Carlo AW, Hartwell TD, and Wright LL. (2009). A simulation based technique to estimate intracluster correlation for a binary variable. *Contemporary Clinical Trials*, 30, 71–80.
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32. **Chakraborty H**, Moore J, and Hartwell TD. (2009). Intracluster correlation adjustments to maintain power in cluster trials for binary outcomes. *Contemporary Clinical Trials*, 30(5), 473–480.
 33. **Chakraborty H** and Gu H. (2009). *A mixed model approach for intent-to-treat analysis in longitudinal clinical trials with missing values*. RTI Press publication No. MR-0009-0903. Research Triangle Park, NC: RTI International.
 34. **Handlos LN***, **Chakraborty H**, and Sen PK. (2009). Evaluation of cluster randomized trials on maternal and child health research in developing countries. *Tropical Medicine and International Health*, 14(8), 947–956.
 35. Patted SS, Goudar SS, Naik VA, Bellad MB, Edlavitch SA, Kodkany BS, Patel A, **Chakraborty H**, Derman RJ, and Geller SE. (2009). Side effects of oral misoprostol for the prevention of postpartum hemorrhage: Results of a community-based randomized controlled trial in rural India. *The Journal of Maternal-Fetal and Neonatal Medicine*, 22(1), 24–28.
 36. Halloran DR, McClure E, **Chakraborty H**, Chomba E, Wright LL, and Carlo WA. (2008). Birth asphyxia survivors in a developing country. *Journal of Perinatology*, 29(3), 243–249.
 37. Goudar SS, **Chakraborty H**, Edlavitch SA, Naik VA, Bellad MB, Patted SS, Patel A, Moore J, McClure EM, Hartwell T, Moss N, Derman RJ, Kodituwakku PW, and Geller SE. (2008). Variation in the postpartum hemorrhage rate in a clinical trial of oral Misoprostol. *Journal of Maternal-Fetal and Neonatal Medicine*, 3, 1–6.
 38. Chomba E, McClure EM, Wright LL, Carlo WA, **Chakraborty H**, and Harris H. (2008). Effect of WHO Newborn Care Training on Neonatal Mortality by Education. *Ambulatory Pediatrics*, 8(5), 300-304.
 39. McClure EM, Carlo WA, Chomba E, **Chakraborty H**, Harris H, Lincetto O, and Wright LL. (2007). Evaluation of the educational impact of the essential newborn care (ENC) course in Zambia. *Acta Paediatr*, 96(8), 1135–1138.
 40. Cohen MS, Hoffman IF, Royce RA, Kazembe P, Dyer JR, Daly CC, Zimba D, Vernazza PL, Maida M, Fiscus SA, Eron JJ, and the AIDSCAP Malawi Research Group (1997). Reduction of concentration of HIV-1 in semen after treatment of urethritis: implications for prevention of sexual transmission of HIV-1. *The Lancet*, 349(9069), 1868-1873.
 41. Ghosh P, Branco MD, and **Chakraborty H**. (2007). Bivariate random effect model using skew normal distribution with application to HIV-RNA. *Statistics in Medicine*, 26(6), 1255–1267.
 42. Derman RJ, Kodkany BS, Goudar SS, Geller SE, Patel A, Edlavitch SA, Naik VA, Bellad MB, Patted SS, Hartwell TD, **Chakraborty H**, and Moss N. (2006). The impact of oral misoprostol in preventing postpartum hemorrhage in a community setting: A randomized placebo controlled trial. *The Lancet*, 368(9543), 1248–1253.
 43. **Chakraborty H**, Cohen MS, and Helms RW. (2003). Estimating correlation by using general linear mixed model: Evaluation of the relationship between the concentration of HIV-1 RNA in blood and semen. *Statistics in Medicine*, 22(9), 1457–1464.
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44. **Chakraborty H**, Sen PK, Helms RW, Vernazza PL, Fiscus SA, Eron JJ, Patterson BK, Coombs RW, Krieger JN, and Cohen MS. (2001). Viral burden in genital secretions determines male-to-female sexual transmission of HIV-1: A probabilistic empiric model. *AIDS*, 15(5), 621–627.
 45. Kenny-Moynihan MB, DeRosa PB, Gal AA, **Chakraborty H**, and Cohen C. (2001). Flow and image cytometry in thymic neoplasia: Correlation with clinical outcome. *Analytical and Quantitative Cytology and Histology*, 23(4), 313–320.
 46. Davis T, **Chakraborty H**, Flowers L, and Mosunjac MB. (2001). Cervical dysplasia in women infected with the human immunodeficiency virus (HIV): A correlation with HIV viral load and CD4+count. *Gynecologic Oncology*, 80(3), 350–354.
 47. Fiscus AS, **Chakraborty H**, Shepard R, and Goodman M. (2000). Comparison of blood collected in ACD and EDTA for use in HIV peripheral blood mononuclear cell cultures. *Journal of Clinical Microbiology*, 38(2), 858–960.
 48. Ping LH, Cohen MS, Hoffman IF, Vernazza P, Seillier-Moiseiwitsch F, **Chakraborty H**, Kazembe P, Zimba D, Maida M, Fiscus SA, Eron JJ, Swanstrom R, Nelson JAE, and the AIDSCAP Malawi Research Group. (2000). Effects of genital tract inflammation on HIV-1 V3 populations in blood and semen. *Journal of Virology*, 74(19), 8946–8952.
 49. Seña AC, Miller WC, Hoffman IF, **Chakraborty H**, Cohen MS, Jenkins P, and McKee KTJ. (2000). Trends of gonorrhea and chlamydial infection during 1985–96 among active duty soldiers at a U.S. Army installation. *Clinical Infectious Diseases*, 30(4), 742–748.
 50. Hobbs MM, Kazembe P, Reed AW, Miller WC, Nkata E, Daly CC, **Chakraborty H**, Cohen MS, and Hoffman IF. (1999). *Trichomonas vaginalis* as a cause of urethritis in Malawian men. *Sexually Transmitted Diseases*, 26(7), 381–387.
 51. Hoffman IF, Jare SC, Taylor TE, Munthali P, Dyer JR, Wirima JJ, Rogerson JS, Kumwenda N, Eron JJ, Fiscus AS, **Chakraborty H**, Taha TE, Cohen MS, and Molyneux ME. (1999). The effect of *Plasmodium faciparum* malaria on HIV-1 RNA blood plasma concentration. *AIDS*, 13, 487–494.
 52. Kohlmeier L, Mendez M, Shalnova S, Martinchik A, **Chakraborty H**, and Kohlmeier M. (1998). Deficient dietary iron intake among women and children in Russia: Evidence from the Russian Longitudinal Monitoring Survey (RLMS). *American Journal of Public Health*, 88(4), 576–580.
 53. Cohen MS, Hoffman IF, Royce RA, Kazembe P, Dyer JR, Zimba D, Vernazza PL, Costello DC, Maida M, Fiscus SA, Eron JJ, Nkata E, Kachenje E, Banda T, Mughogho G, Koller C, Schock J, **Chakraborty H**, Dallabetta G, Gilliam B (1997). Reduction of concentration of HIV-1, in semen after treatment of urethritis: Implications for prevention of sexual transmission of HIV-1. *The Lancet*, 349, 1868–1873.
 54. Tseng M, **Chakraborty H**, Robinson DT, and Kohlmeier L. (1997). Adjustment for iron intake for dietary enhancers and inhibitors in population studies: Bioavailable iron in rural and urban residing Russian women and children. *Journal of Nutrition*, 127, 1456–1468.
 55. Samad QA, Hossain T, and **Chakraborty H**. (1992). A simulation model: The case of Bangladesh tea economy. *Journal of Statistical Studies*, 12, 89–97.
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56. **Chakraborty H** and Miah ABMAS. (1991). Relative performance of the F-type test procedures available for analyzing groups of randomized block designs with heterogeneous data. *Bangladesh Journal of Scientific Research*, 9(2), 201–207.
57. **Chakraborty H** and Miah ABMAS. (1990). Relative performance of the available X^2 -type tests procedures for analyzing groups of randomized block designs with heterogeneous data. *Journal of Statistical Studies*, 10, 78–92.
58. Samad QA, Hossain T, and **Chakraborty H**. (1989). The tea industry of Bangladesh: An econometric analysis. *Tea Journal of Bangladesh*, 25(1 and 2), 9–17.

Book Chapter

59. **Chakraborty H**. (2008). The design and analysis aspects of cluster randomized trials. In A. Biswas, S. Datta, J. P. Fine, M. Segal, J. Fine, and A. R. Biswas (Eds.), *Statistical advances in the bio-medical sciences: State of the art and future directions. Clinical trials, epidemiology, survival analysis, and bioinformatics*. New York: John Wiley & Sons, Inc.
60. **NICHD Early Child Care Research Network**. (2006). The relations of classroom contexts in the early elementary years to children's classroom and social behavior. In A. C. Huston and M. N. Ripke (Eds.), *Developmental contexts of middle childhood: Bridges to adolescence and adulthood*. New York: Cambridge University Press. [Book Chapter]

Letter to Journal

61. **Chakraborty H**. (2008). Cluster-randomized trial of a community-based intervention. *The Lancet*, 372(9649), 1541.

Conference Proceeding Publication

62. Minhajuddin A. and **Chakraborty H**. (2008). Variable selection in linear mixed model: A new algorithm incorporating investigator preference and non-missingness of data. *Proceedings of the American Statistical Association, ASA Biometrics Section*.
63. **Chakraborty H** and Gu H. (2005). Missing data in longitudinal controlled clinical trials: A mixed model approach for intent-to-treat analysis. *Proceedings of the American Statistical Association, ASA Biopharmaceutical Section*, 497–507.
64. **Chakraborty H**, Cummings S, and Cai Y. (2004). Do mixed model and multiple imputations work together for longitudinal data analysis with missing values? *Proceedings of the American Statistical Association, ASA Biometrics Section*.

Publication of Abstracts of Scholarly Presentation

65. Mack E, Gray M, Ray G, Case A, **Chakraborty H**, and Turley C (2015). Staff & Family Satisfaction with Implementation of a Safe Pediatric Sedation Checklist. *Critical Care Medicine*; 43 (12); 224-225.
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66. Mack E, **Chakraborty H**, Ray G, Turley C, Case A, and Gray M (2014). Feasibility of a Safe Sedation Checklist in a Pediatric Sedation Unit. *Critical Care Medicine*; 42 (12); A1548.
67. **Chakraborty H**, Bartz J, Harris H, McClure B, Norman G, Hartwell TD, and Wright LL. (2007). Challenges faced and solutions implemented by a data coordinating center for a single site and multisite health research network in developing countries. *Clinical Trial*, 4(4), 453.
68. **Chakraborty H**, Bartz J, Carlo WA, and Hartwell TD (2006). Sample Size Adjustment to Maintain Power in Cluster Randomized Trials. *Clinical Trial*; **3**; 208.
69. **Chakraborty H**, Bartz J, and Goudar SS (2006). Estimating the effect of unplanned interventions in the randomized misoprostol trial: A mixed model analysis. *International Journal of Gynecology and Obstetrics*; **94(3)**; S18.
70. **Chakraborty H**, Bartz J, Carlo AW, and Hartwell TD (2005). A Simulation-Based Technique to Estimate Intra-Cluster Correlation for Categorical Variables. *Clinical Trial*; **2**; S32.

Keynote, Workshop, Seminar, Invited, and Contributed Presentations:

Keynote Speaker

1. **Chakraborty H**. (January 2015). Conference on the Importance of Research in Public Health. School of Public Health, Daffodil International University, Dhaka, Bangladesh.

Invited Presentation at Professional Meetings

2. **Chakraborty H**. (December 2014). Intra-cluster Correlation for Clustered Binary Data: Recent Development. 2014 International Conference on Applied Statistics (ICAS), Dhaka, Bangladesh.
 3. **Chakraborty H**. (December 2014). Methods to Estimate Intra-cluster Correlation for Clustered Binary Data. Bi-Annual Conference of Bangladesh Statistical Association (BSA): Current Trends and Future Challenges in Statistics: Big data, Dhaka, Bangladesh.
 4. **Chakraborty H**. (October 2014). Markov Chain Models for Clinical Trials: Intervention to Reduce Human Papillomavirus Infection. International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, USA.
 5. **Chakraborty H**. (Jan 2013). *Community HIV Viral Load - New concept and initial data for SC*. Invited conference speaker, South Carolina Infectious Disease Society (SCIDS) 24th Annual Meeting, Columbia, South Carolina, USA.
 6. **Chakraborty H**. (Jan 2013). *Stochastic Process Models to Compare Transition Probabilities for Comparative Studies*. Invited conference speaker, the Eighth International Triennial Calcutta Symposium on Probability and Statistics, Kolkatha, India.
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7. **Chakraborty H.** (August 2010). *Violence against women in developing countries: Statistical challenges*. Invited session speaker at the Joint Statistical Meeting, Vancouver, BC, Canada.
8. **Chakraborty H,** Goudar SS, Bartz J, Hartwell TD, Kodkany BS, Edlavitch SA, Moss N, Geller SE, Derman RJ, and Wright LL. (November 2007). *Application of piecewise mixed model and GEE to estimate the variation over time in the randomized controlled trial of oral misoprostol*. Silver Jubilee National Conference of Indian Society for Medical Statistics (ISMS), Manipal, Karnataka, India.
9. **Chakraborty H.** (October 2007). *Issues in cluster clinical trial design and analyses*. Invited Workshop speaker at the International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, North Carolina.
10. **Chakraborty H.** (July 2006). *Statistical challenges in misoprostol trial to prevent postpartum hemorrhage*. International Congress on Postpartum Hemorrhage, Misoprostol Working Group, Goa, India.
11. **Chakraborty H,** Islam S, and Alauddin M. (May 1992). *Use of data for decision making in NGO family planning program management: The Pathfinder experience in Bangladesh*. Data for Decision Making Conference, Dhaka, Bangladesh.

Contributed Presentation

12. Casanova EL, **Chakraborty H,** Sultana SN*, and Casanova MF. (2015). *Highly penetrant genes for autism are frequently involved in largescale DNA remodeling*. Greenville Health System Pediatrics Research Showcase.
 13. Mack E, **Chakraborty H,** Ray G*, and Turley C. (2015). *Staff & Family Satisfaction with Implementation of a Safe Pediatric Sedation Checklist*. American Academy of Pediatrics (AAP) National Conference & Exhibition, Washington DC.
 14. **Chakraborty H,** Weissman S, Duffus W, Hossain AM*, Samantapudi A*, and Albrecht A (June 2015). *HIV Community Viral Load Trends in South Carolina*. 2015 National Summit on HCV and HIV Diagnosis, Prevention, and Access to Care. Arlington, Verginia.
 15. Hossain AM*, **Chakraborty H.** (February 2015). *A Continuous Time Markov Chain Model for HIV Infected Adults in South Carolina*. South Carolina Chapter American Statistical Association Palmetto Symposium, Columbia, South Carolina.
 16. Mack E, **Chakraborty H,** Ray G*, and Turley C. (2014). *Feasibility of a Safe Sedation Checklist in a Pediatric Sedation Unit. Poster Presentation*. 2014 Critical Care Congress for the Society of Critical Care Medicine, Phoenix, Arizona.
 17. **Chakraborty H.** (July 2014). *Disparities in Viral Load Trends among HIV Infected Adults in South Carolina. Poster Presentation*. 20th International AIDS Conference, Melbourne, Australia.
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18. **Chakraborty H.** (August 2011). *Comparison of 95% confidence intervals of intracluster correlation estimates for clustered binary data.* 2011 Joint Statistical Meetings, Miami, Florida.
 19. Wehby GL, Goco N, Kindem M, **Chakraborty H**, and Murray JC. (April 2011). *Fertility preferences and behaviors of women at risk of cleft lip and/or palate recurrence.* The American Cleft Palate-Craniofacial Association's 68th Annual Meeting, San Juan, Puerto Rico.
 20. Iriondo-Perez J, **Chakraborty H**, Newman JE, Woelk G, Hemingway-Foday J, Akam W, Balimba A, Kalenga L, Mbaya M, Mukumbi H, Niyongabo T, Takuefou B, Ryder R, and Heubner R. (March 2011). *Modeling CD4 cell counts over time in HIV-infected adults in Central Africa.* The International Biometrics Society/Eastern North American Region (ENAR) Conference, Miami, Florida.
 21. **Chakraborty H**, Kindem M, Chowdhury D, and Sen PK. (March 2011). *Comparison of intraclass correlation estimators for clustered binary data.* The International Biometrics Society/Eastern North American Region (ENAR) Conference, Miami, FL.
 22. **Chakraborty H**, Wehby G, Goco N, Moore J, Kindem M, and Murray JC. (May 2010). *Data coordinating center challenges and implemented solutions for the oral cleft prevention program in Brazil.* 31st Annual Meeting of the Society for Clinical Trials Conference, Baltimore, Maryland.
 23. Engmann C, Ditekemena J, Phiri M, Garces A, Jehan I, Tshetu A, Mazariegos M, Chomba E, Pasha O, McClure EM, Goldenberg RL, Bose C, Wright LL, Thorsten V, **Chakraborty H**, and Carlo WA. (May 2010). *Assigning cause of early neonatal death using verbal autopsy: Comparing non-physicians to physicians.* 2010 Pediatric Academic Societies Meeting, Vancouver, Canada.
 24. Engmann C, Ditekemena J, Phiri M, Garces A, Jehan I, Tshetu A, Mazariegos M, Chomba E, Pasha O, McClure EM, Goldenberg RL, Bose C, Wright LL, Thorsten V, **Chakraborty H**, and Carlo WA. (May 2010). *Physician Agreement on cause of stillbirth using verbal autopsy.* 2010 Pediatric Academic Societies Meeting, Vancouver, Canada.
 25. Carlo, WA, Goudar SS, Pasha O, Chomba E, McClure EM, Wallander JL, Basini FJ, Thorsten V, Wright LL, and the BRAIN HIT Committee and the NICHD Global Network for Women's and Children's Health Research. (May 2010). *Neurodevelopmental outcomes in infants resuscitated for birth asphyxia in developing countries.* 2010 Pediatric Academic Societies Meeting, Vancouver, Canada.
 26. **Chakraborty H.** (March 2010). *Re-sampling based method to estimate intra-cluster correlation of clustered binary data.* The International Biometrics Society/Eastern North American Region (ENAR) Conference, New Orleans, Louisiana.
 27. **Chakraborty H.** and Sen PK. (August 2009). *Constrain estimate of intracluster correlation for clustered binary data.* Joint Statistical Meetings, Washington DC.
 28. **Chakraborty H.** (March 2009). *Intracluster correlation adjustments to maintain power in cluster trials for binary variables.* The International Biometrics Society/Eastern North American Region (ENAR) Conference, San Antonio, Texas.
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29. Chowdhury D and **Chakraborty H.** (March 2009). *Compare sample size adjustment methods for cluster randomized trial.* The International Biometrics Society/Eastern North American Region (ENAR) Conference, San Antonio, Texas.
 30. Minhajuddin A. and **Chakraborty H.** (August 2008). *Variable selection in linear mixed model: A new algorithm incorporating investigator preference and non-missingness of data.* 2008 Joint Statistical Meetings, Denver, Colorado.
 31. Engmann C, McClure E, Goldenberg R, Bose C, Wright LL, Setel P, Phiri M, Chomba E, Jehan I, Pasha O, Garces A, Thorsten V, **Chakraborty H**, Mazariegos M, Ditekemena J, Tshefu A, and Carlo WA. (May 2008). *Determining cause of early neonatal deaths and stillbirths in rural communities using a verbal autopsy strategy—Program development and testing.* 2008 Pediatric Academic Societies' and Asian Society for Pediatric Research Joint Meeting, Honolulu, Hawaii.
 32. Carlo WA, and the First Breath Study Group. (May 2008). *Effect of essential newborn care (ENC) training: A global network study of site differences.* 2008 Pediatric Academic Societies' and Asian Society for Pediatric Research Joint Meeting, Honolulu, Hawaii.
 33. Wehby GL, Castilla EE, Goco N, Rittler M, Cosentino V, Javois L, Lopez-Camelo J, Harris H, **Chakraborty H**, Dutra G, Orioli IM, and Murray JC. (April 2008). *The impact of systematic pediatric care on neonatal mortality of infants born with cleft lip and palate.* 65th Anniversary Meeting of the American Cleft Palate–Craniofacial Association, Philadelphia, Pennsylvania.
 34. **Chakraborty H**, Bartz J, Harris H, McClure B, Norman G, Hartwell TD, and Wright LL. (May 2007). *Challenges faced and solutions implemented by a data coordinating center for a single site and multisite health research network in developing countries.* 28th Annual Meeting of the Society for Clinical Trials Conference, Montréal, Canada.
 35. Chomba E, McClure EM, Wright LL, Carlo WA, **Chakraborty H**, and Harris H. (May 2007). *Effects of the World Health Organization (WHO) Essential Newborn Care Training Course on early neonatal mortality by level of maternal education.* The Pediatric Academic Societies' Annual Meeting, Toronto, Canada.
 36. NICHD Global Network First Breath Study Group. (November 2006). *Estimates of preterm delivery and birth weight: A report from a multi-site study.* FIGO World Congress of Gynecology and Obstetrics, Kuala Lumpur, Malaysia.
 37. NICHD Global Network First Breath Study Group. (November 2006). *Global burden of stillbirths and early neonatal deaths: Is the burden underestimated?* FIGO World Congress of Gynecology and Obstetrics, Kuala Lumpur, Malaysia.
 38. **Chakraborty H.** and Sen PK. (August 2006). *Probabilistic model to evaluate biological process.* Joint Statistical Meetings, Seattle, Washington.
 39. Carlo WA, McClure EM, Chomba E, **Chakraborty H**, Harris H, Lincetto O, and Wright LL. (May 2006). *Evaluation of the educational impact of the neonatal resuscitation program in a developing country.* Pediatric Academic Societies' Meeting, San Francisco, California.
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40. Carlo WA, McClure EM, Chomba E, **Chakraborty H**, Harris H, Lincetto O, and Wright LL. (May 2006). *Impact of World Health Organization (WHO) essential newborn care (ENC) training: A multi-center study*. Pediatric Academic Societies' Meeting, San Francisco, California.
 41. **Chakraborty H**, Bartz J, Carlo WA, and Hartwell TD. (May 2006). *Sample size adjustment to maintain power in cluster randomized trials*. 27th Annual Meeting of the Society for Clinical Trials Conference, Orlando, Florida.
 42. Halloran DR, McClure EM, **Chakraborty H**, Chomba E, Wright LL, and Carlo WA. (May 2006). *Birth asphyxia survivors in a developing country*. Pediatric Academic Societies' Meeting, San Francisco, California.
 43. McClure EM, Carlo WA, Chomba E, **Chakraborty H**, Harris H, Lincetto O, and Wright LL. (May 2006). *Evaluation of the educational impact of the essential newborn care (ENC) course in a developing country*. Pediatric Academic Societies Meeting, San Francisco, California.
 44. Ghosh P, Branco MD, and **Chakraborty H**. (March 2006). *Bivariate random effect model using skew normal distribution with application to HIV-RNA*. The International Biometrics Society/Eastern North American Region (ENAR) Conference, Tampa, Florida.
 45. **Chakraborty H** and Gu H. (August 2005). *Missing data in longitudinal controlled clinical trials: A mixed model approach for intent-to-treat analysis*. Joint Statistical Meetings, Minneapolis, Minneapolis.
 46. **Chakraborty H**, Bartz J, Carlo WA, and Hartwell TD. (May 2005). *A simulation-based technique to estimate intra-cluster correlation for categorical variables*. 26th Annual Meeting of the Society for Clinical Trials Conference, Portland, Oregon.
 47. **Chakraborty H**, Cai Y, and Burchinal P. (August 2004). *Do mixed models and multiple imputations work together for longitudinal data analysis with missing values?* 2004 Joint Statistical Meetings, Toronto, Canada.
 48. Pilcher CD, Tien H, Stewart P, **Chakraborty H**, Vernazza PL, and Cohen MS. (July 2002). *Estimating transmission probabilities over time in acute HIV infection from biological data*. XIV International AIDS Conference, Abstract number 1487, Barcelona, Spain.
 49. **Chakraborty H**, Sen PK, Helms RW, and Cohen MS. (March 2002). *Biologically motivated probabilistic model using independent and limited data sources*. The International Biometrics Society/Eastern North American Region (ENAR) Conference, Arlington, Virginia.
 50. Pilcher CD, Tien H, Stewart P, **Chakraborty H**, Vernazza PL, and Cohen MS. (February 2002). *Estimating transmission probabilities over time in acute HIV infection from biological data*. 9th Conference on Retroviruses and Opportunistic Infections, Abstract number 366-M, Seattle, Washington.
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51. Hirsch JS, Yount K, **Chakraborty H**, and Nyhus C. (October 2001). *Because he misses his normal life back home: Sexuality, loneliness, and AIDS-risk behavior among Mexican migrants in Atlanta*. 129th Annual Meeting of American Public Health Association (APHA). Session number 5067.0, Atlanta, Georgia.
 52. **Chakraborty H**, Helms PW, Sen PK, Vernazza PL, Fiscus SA, Eron JJ, Kazembe P, Coombs RW, and Cohen MS. (February 2001). *Compare HIV transmission probability between the U.S, Switzerland, and Malawi*. 8th Conference on Retroviruses and Opportunistic Infections, Abstract number 222, Chicago, Illinois.
 53. **Chakraborty H**, Sen PK, Helms RW, Vernazza PL, Fiscus SA, Eron JJ, Patterson BK, Coombs RW, Krieger JN, and Cohen MS. (February 2001). *Viral burden in genital secretions determines male-to-female sexual transmission of HIV-1: A probabilistic empiric model*. 8th Conference on Retroviruses and Opportunistic Infections, Abstract number 223, Chicago, Illinois.
 54. **Chakraborty H**, Helms RW, Sen PK, and Cohen MS. (January 2001). *Estimating correlation by using general linear mixed models: Correlation between the concentration of blood and semen HIV-1*. CDC/ATSDR Statistical Symposium, Abstract number 56, Atlanta, Georgia.
 55. **Chakraborty H**, Sen PK, Helms RW, and Cohen MS. (January 2001). *Probabilistic model to estimate male-to-female sexual transmission of HIV-1*. CDC/ATSDR Statistical Symposium, Abstract number 55, Atlanta, Georgia.
 56. **Chakraborty H**, Helms RW, and Cohen MS. (August 1999). *Estimating correlation by using general linear mixed models in different settings: Correlation between the concentration of blood HIV-1 RNA and semen HIV-1 RNA*. 1999 Joint Statistical Meetings, Baltimore Maryland.
 57. **Chakraborty H**, Helms RW, and Cohen MS. (March 1999). *Estimating correlation by using general linear mixed models in different settings: Correlation between the concentration of blood HIV-1 RNA and semen HIV-1 RNA*. The International Biometrics Society/Eastern North American Region (ENAR) Conference, Atlanta, Georgia.
 58. **Chakraborty H**, Helms RW, and Cohen MS. (August 1998). *Relationship between blood and semen HIV-1 RNA concentrations: Using multivariate outcomes in incomplete longitudinal measures*. 1998 Joint Statistical Meetings, Dallas, Texas.
 59. **Chakraborty H**, Suchindran CM, Cohen MS, and Helms RW. (March 1998). *Multiple approaches to the analysis of data on the relationship between blood and semen HIV-1 RNA concentrations in a study of the effect of antibiotic treatment for sexually transmitted diseases*. The International Biometrics Society/Eastern North American Region (ENAR) Conference, Pittsburgh, Pennsylvania.
 60. Wallace AB, Hobbs MM, Hoffman IF, **Chakraborty H**, Maida M, Zimba D, Nkata E, Costello Daly C, and Cohen MS. (October 1997). *Trichomonas vaginalis detection in Malawian men: Superior sensitivity of PCR versus in pouch TV from urethral swabs*. 12th International Society of Sexual Transmitted Diseases Research (ISSTD). Geneva, Switzerland.
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61. **Chakraborty H**, Quentin ALJ, and Galland H. (October 1994). *Knowledge and misconceptions among 9 to 12 Grade Istrouma high school students*. Mid-South Sociological Association Conference, Lafayette, Louisiana.

Per-conference Workshop/Workshop/Short Course

62. **Chakraborty H**. (December 2014). *Fundamentals of Clinical Trial Design and Analysis*. Pre-conference Workshop at the 2014 International Conference on Applied Statistics (ICAS) 2014, Dhaka, Bangladesh. Total Participants: 52
63. **Chakraborty H**. (March 2014). *Longitudinal data Analysis for Categorical Variables*. Chinese Center for Disease Control and Prevention, Beijing, China. Total Participants: 17
64. **Chakraborty H**. (April 2013). *Cluster Randomized Trial and Longitudinal Data Analysis*. Chinese Center for Disease Control and Prevention, Beijing, China. Total Participants: 23
65. **Chakraborty H**. (September 2010). *Advance Social Science Research Methods*. Jawaharlal Nehru Medical College, Belgaum, Karnataka, India. Total Participants: 42
66. **Chakraborty H**. (December 2008). *Advance Clinical Trial Design and Analyses*. Jawaharlal Nehru Medical College, Belgaum, Karnataka, India. Total Participants: 22
67. **Chakraborty H**. (July 2008). *Longitudinal Data analysis*. Research Triangle Institute, Durham, North Carolina, USA. Total Participants: 18
68. **Chakraborty H**. (April 2008). *Statistical Methods for Medical Research*. Jawaharlal Nehru Medical College, Belgaum, Karnataka, India. Total Participants: 32
69. **Chakraborty H**. (October 2007). *Statistical Methods for Medical Research*. Jawaharlal Nehru Medical College, Belgaum, Karnataka, India. Total Participants: 26
70. Moore J, and **Chakraborty H**. (October 2007). *Fundamentals of cluster randomized trials*. International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, NC. Total Participants: 13
71. **Chakraborty H**. and Strader LC. (March 2007). *Advance Biostatistical Methods on Clinical Trial*. Chinese Center for Disease Control and Prevention, Beijing, China. Total Participants: 36
72. **Chakraborty H**. (December 2007). *Cluster randomized trial design and analyses*. Jawaharlal Nehru Medical College, Belgaum, Karnataka, India. Total Participants: 49
73. **Chakraborty H**. (May-June 1992). *Advance Statistical Programming*. Computer and Information Center, Jahangirnagar University, Dhaka, Bangladesh. Total Participants: 40
74. **Chakraborty H**. (March-April 1992). *Computer Programming using FORTRAN*. Computer and Information Center, Jahangirnagar University, Dhaka, Bangladesh. Total Participants: 40
75. **Chakraborty H**. (January-February 1992). *Advance Computer Programming using Pascal and C++*. Computer and Information Center, Jahangirnagar University, Dhaka, Bangladesh. Total Participants: 40
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76. **Chakraborty H.** (November-December 1991). *Advance Computer Programming*. Computer and Information Center, Jahangirnagar University, Dhaka, Bangladesh. Total Participants: 40
77. **Chakraborty H.** (September-October 1991). *Advance Statistical Programming*. Computer and Information Center, Jahangirnagar University, Dhaka, Bangladesh. Total Participants: 40

Seminar Presentation

78. **Chakraborty H.** (January 2015). Resampling Method to Estimate Intra-cluster Correlation with Confidence Interval for Clustered Binary Data, Department of Statistics, Jahangirnagar University, Savar, Dhaka, Bangladesh.
79. **Chakraborty H.** (Feb 2014). Resampling Method to Estimate Intra-cluster Correlation for Clustered Binary Data. Department of Mathematics and Statistics, University of North Carolina at Greensboro, Greensboro, North Carolina, USA.
80. **Chakraborty H.** (June 2013). Markov Chain Models for Recurring Infection Data: Intervention to Reduce Human Papillomavirus Infection, Translational Science Research Seminar Series, Stine Lectureship. Nemours/A.I. duPont Hospital for Children, Delaware, USA.
81. **Chakraborty H.** (Dec 2012). *Cluster Randomized Trial and Intra-cluster Correlation for Clustered Binary Data: Recent Development*. Invited conference speaker, Statistical Data Mining for Bioinformatics Health Agriculture and Environment, Rajshahi, Bangladesh.
82. **Chakraborty H.** (March 2012). New developments in Cluster Randomized Trial. Invited speaker, Biostatistics forum, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina, USA.
83. **Chakraborty H.** (January 2011). *Re-sampling based Intracluster Correlation Estimation Method for Cluster Randomized Trials*. Invited seminar speaker, Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina.
84. **Chakraborty H.** (January 2011). *New intra-cluster correlation estimation method for cluster binary data*. Invited seminar speaker, Department of Preventive Medicine, Feinberg School of Medicine, Northwestern University, Chicago, Illinois.
85. **Chakraborty H.** (July 2010). *Cluster randomized trial and intracluster correlation: New approaches*. Invited seminar speaker at the Department of Statistics, Informatics, and Biostatistics, University of Dhaka, Bangladesh.
86. **Chakraborty H.** (July 2010). *Public health and information technology*. Invited seminar speaker at the School of Public Health and School of Computer Science, Daffodil University, Dhaka, Bangladesh.
87. **Chakraborty H.** (March 2010). *Cluster randomized trial and intracluster correlation: Some new approaches*. Invited seminar speaker at the Mathematics and Statistics Department, University of Maryland, College Park, Maryland.
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88. **Chakraborty H.** (February 2007). *Relationship between intra-cluster correlation and sample size requirement for cluster randomized trial*. Invited Seminar speaker for the Visiting Professor series in the Department of Clinical Sciences (Division of Biostatistics) at the University of Texas Southwestern Medical Center in Dallas, Texas.
89. **Chakraborty H.** (November 2005). *Bivariate Random Effect Models: A Frequentist and Bayesian Approaches to Evaluate Relationship*. Statistics Departmental Seminar, North Carolina State University (NCSU), Raleigh, North Carolina.
90. **Chakraborty H.** (November 2004). *Biostatistician's role in public health research and drug development*. Centre for Health, Population and Development Independent University Bangladesh (IUB), Invited presentation, Seminar Series on Population and Development, Bangladesh.
91. **Chakraborty H.** (March 2003). *Missing data in longitudinal controlled clinical trials: A mixed model approach for intent-to-treat analysis*. Duke University Medical Center, Durham, NC.
92. **Chakraborty H.** (March 2000). *Estimating correlation by using general linear mixed models: Correlation between the blood and semen HIV RNA*. Department of Biostatistics, Emory University, Atlanta, GA.

Teaching Experience:

- BIOS 760: Biostatistics Methods in Clinical Trial Design and Analysis (2 times)
- BIOS 757: Intermediate Biostatistics (2 times)
- BIOS 805/STAT 777: Categorical Data Analysis (2 times)
- BIOS 845: Doctorial Seminar (2 times)
- BIOS 790: Independent Study (1 time)
- BIOS 799: Thesis Preparation
- BIOS 899: Dissertation Preparation
- Biostatistical Methods in Clinical Trial (3 times)
- Longitudinal Data Analysis for Categorical Variables (1 time)
- Advanced Biostatistical Methods in Clinical Trial (1 time)
- Statistical Methods for Medical Research (1 time)
- Clinical Trial Design and Analyses (2 times)
- Cluster Randomized Trial Design and Analysis (3 times)
- Longitudinal Data Analysis (2 time)
- Advanced Social Science Research Methods (1 time)
- Advanced Statistical Programming (5 times)
- Advanced Computer Programming (7 times)

Mentoring and Guiding Research:

- Guided 3 MSPH Theses
 - Guided 1 MPH Practicum
 - Committee member of 2 completed PhD Dissertations
 - Completed 2 international student internships
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- Guiding 2 PhD Dissertation
- Guiding 2 MSPH Theses
- Committee member of 1 MSPH Thesis
- Mentor for a Faculty member on a Grant funded project

Professional Service:

Ongoing:

- 2015 to 2021 Clinical Study Oversight Committee (CSOC) Member, National Institute of Dental and Craniofacial Research (NIDCR). National Institutes of Health (NIH).
- 2007 to 2017 Advisor, American Statistical Association (ASA) North Carolina Chapter (2 terms).
- 2012 to date Editorial board member of *the Journal of Biometrics & Biostatistics*.
- 2014 to date Member, Analytics Software System Selection Team. Health Sciences South Carolina (HSSC).
- 2000 to date External reviewer for (1) Communication in Statistics - Simulation and Computation (2) Journal of Statistical Theory and Practice (3) *Contemporary Clinical Trials*, (4) *Sankhya Series B*, (5) *Journal of Applied Probability and Statistics*, (6) *The Bulletin of the Malaysian Mathematical Sciences Society*, (7) *Journal of Infectious Diseases*, (8) *International Journal of STD & AIDS*, (9) *CHEST—the Cardiopulmonary and Critical Care Journal*, (10) *Statistics in Medicine*, and (11) *Journal of Applied Development Psychology*.

Completed:

- Dec 2015 Grant application reviewer for the Kentucky Lung Cancer Research Fund, James Graham Brown Cancer Center, University of Louisville School of Medicine.
- Jan 2015 Review Panel Member, “Diabetic Gastroparesis: Competitive Renewal Program Project Grant (P01)” National Institute of Diabetes and Digestive and Kidney Diseases (NIDRR). National Institutes of Health.
- 2014 Scientific Committee member for the 2014 International Conference on Applied Statistics (ICAS) 2014, Dhaka, Bangladesh.
- Dec 2014 Session Chair, Invited Session: Statistical Inference. 2014 International Conference on Applied Statistics (ICAS) 2014, Dhaka, Bangladesh.
- 2014 Scientific Program Committee member for the International Conference on Advances in Interdisciplinary Statistics and Combinatorics, October 10-12, 2014, Greensboro, USA.
- Oct 2014 Student Paper Competition Committee member for the International Conference on Advances in Interdisciplinary Statistics and Combinatorics, October 10-12, 2014, Greensboro, USA.
- 2011 to 2014 Scientific Proposal Review Committee member, Palmetto Health, Columbia, South Carolina.
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- 2012 to 2014 Editorial board member of *the Annals of Biometrics & Biostatistics; the American Journal of Biostatistics; the Journal of Translational Medicine & Epidemiology; and the International Journal of Medicine and Public Health*
- 2012 to 2013 Vice Chair, Statistics Partnerships among Academe, Industry, and Government (SPAIG) committee, American Statistical Association.
- 2008 to 2013 Committee member, Statistics Partnerships among Academe, Industry, and Government (SPAIG) committee, American Statistical Association (2 terms).
- 2011 to 2012 Scientific Committee member for 2012 international conference on Statistical Data Mining for Bioinformatics Health Agriculture and Environment. Rajshahi, Bangladesh.
- July 2012 National Science Foundation (NSF) Smart Health review panel member.
- Oct 2012 Expert Reviewer, the U.S. Department of Education and NIDRR's National Data and Statistical Center for the Traumatic Brain Injury (TBI) Model, U.S. Department of Education and National Institute on Disability and Rehabilitation Research (NIDRR).
- Oct 2012 Student Award Committee member, International Conference on Advances in Interdisciplinary Statistics and Combinatorics. Greensboro, North Carolina.
- Dec 2012 Session Chair, Contributed Session: CS-III(C): Reliability Theory. Statistical Data Mining for Bioinformatics Health Agriculture and Environment, Rajshahi, Bangladesh.
- July 2012 Scientific Committee Member, of the international conference on Statistical Data Mining for Bioinformatics, Health, Agriculture and Environment organized by the Department of Statistics, Rajshahi, Bangladesh.
- 2009 to 2011 Regional Advisory Board Member. The International Biometric Society Eastern North American Region (ENAR).
- March 2011 Session Chair, Session 91: Analysis of Binary Data, at the 2011 International Biometric Society Eastern North American Region Conference, Miami, FL.
- Nov 2010 Special Emphasis Panel member, Limited Competition for the Continuation of the NIDDK Gastroparesis Clinical Research Consortium, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institute of Health (NIH).
- July 2009 Special Emphasis Panel member, National Institute of Diabetes and Digestive and Kidney Diseases, NIH.
- May 2008 Expert Reviewer, Traumatic Brain Injury Model Systems (TBIMS) Centers Collaborative Research Projects, U.S. Department of Education.
- Oct 2007 International advisory committee member for the International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, NC.
- Oct 2007 Session Chair, Session 4f: Statistical Methodology, at the International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, North Carolina (ASA North Carolina Chapter sponsored).
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- Aug 2006 Session Chair, Session 517: Statistical Methods in HIV Research, at the 2006 Joint Statistical Meetings, Seattle, WA.
- Oct 2006 Special Emphasis Panel member, National Institute of Allergy and Infectious Diseases (NIAID), NIH.
- Oct 2006 Special Emphasis Panel member, Centers for AIDS Research CFAR and D-CFAR, NIAID, NIH.
- Oct 2006 Expert Reviewer, Autism Centers of Excellence (R01) Network, National Institute of Child Health and Human Development (NICHD), NIH.
- Feb 2006 Special Emphasis Panel member, Clinical Trial Units for HIV/AIDS Clinical Trial Networks, NIAID, NIH.
- 2004 to 2006 Chapter representative, ASA North Carolina Chapter.
- Oct 2005 Special Emphasis Panel member, Continuation of the NIDDK Gastroparesis Clinical Research Consortium, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), NIH.
- 2003 to 2004 President, ASA North Carolina Chapter.
- 2002 to 2003 Vice President, ASA North Carolina Chapter.

Committee Service:

- University of South Carolina Senator (Aug 2013 to July 2016).
 - University of South Carolina's Committee on Scholastic Standards and Petitions (Aug 2013 to Aug 2015).
 - ASPH Student Award Committee, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina (Aug 2012 to Aug 2015).
 - ASPH Ad-hoc advisor to the Information Technology group, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina (March 2015 to present).
 - Analytics Software System Selection Committee Member. Health Sciences South Carolina (HSSC), University of South Carolina, Columbia, South Carolina (Jan 2014 to June 2015).
 - DCA Governance Committee of Health Sciences South Carolina (HSSC), University of South Carolina, Columbia, South Carolina (Jan 2013 to Dec 2014).
 - Palmetto Health Scientific Review Committee member (Nov 2011 to May 2014).
 - Faculty Search Committee member, Department of Health Services Policy and Management, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina (Sept 2013 to May 2014).
 - NC-ASA Symposium Organizing Committee for the 2013 NC-ASA Symposium: Celebrating the International Year of Statistics, October 12, 2013.
 - Biostatistics Faculty Search Committee member, Biostatistics department, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina (Sept 2011 to March 2012).
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- Biostatistics Research Committee, Biostatistics department, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina (March 2012 to date 2012).
- Biostatistics Department Administrative Staff Search Committee, Biostatistics department, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina (Jan 2011 to June 2012).
- Chair, Biostatistician Search Committee, Biostatistics Collaborative Research Center, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina (March 2011 to October 2012).
- Admission Committee, Biostatistics department, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina (Oct 2011 to date)
- Faculty Search Committee, Biostatistics department, Arnold School of Public Health, University of South Carolina, Columbia, South Carolina (Sept 2011 to May 2012).
- Assessing the State-of-the-Science in Statistics and Epidemiology Development Team, Member, Statistics and Epidemiology Department, RTI International, 2010.
- Multilevel Modeling Development Team, Chair, Statistics and Epidemiology Department, RTI International, 2010.
- Longitudinal Data Modeling Development Team, Member, Statistics and Epidemiology Department, RTI International, 2010.
- RTI's Leadership Team, Member, Statistics and Epidemiology Department, RTI International, 2005-2010. • RTI's Proposal Review Team, Member, Statistics and Epidemiology Department, RTI International, 2005-2010.
- RTI's Business Development Team, Member, RTI International, 2006-2010.
- Asia Geo Team, Member, RTI International, 2006-2009.
- NIAID Team, Member, RTI International, 2006-2009.
- FDA/USDA team. Statistics and Epidemiology Lead, RTI International, 2005-2009.
- HIV/AIDS team, Member, RTI International, 2006-2007.
- Business Development team, Member, Quintiles Inc, 2001-2003.
- Biostatistics Consulting Center Business Development Committee, Chair, Department of Biostatistics, Emory University, 2000-2001.
- Information Technology Senate Subcommittee, Member, Jahangirnagar University, 1991-1992.
- Course Development Committee, *Member*, Computer and Information Technology Institute, Jahangirnagar University, 1990-1992.
- Population and Family Planning NGO Coordination National Committee, Member, Bangladesh, 1990-1992.

Professional Association Membership:

- Member, American Statistical Association.
 - Member, International Biometrics Society/Eastern North American Region.
 - Member, Society for Clinical Trials.
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- Member, Indian Statistical Society.
- Member, International AIDS Society.
- Life Member, Bangladesh Statistical Association.
- Life Member, Bangladesh Association for the Advancement of Science.

Honors and Awards:

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| Oct 2012 | North Carolina Chapter of the American Statistical Association award for long and outstanding service to the NC-ASA Chapter. Presented at the AISC-2012 International Conference. |
| May 2010 | RTI International Highly Published Authors Award. |
| May 2010 | RTI International Highly Cited Authors Award. |
| May 2009 | RTI International Highly Published Authors Award. |
| Feb 2009 | RTI International, Team Award. |
| May 2008 | RTI International Highly Published Authors Award. |
| Aug 2008 | RTI International, Team Award. |
| Nov 2007 | ISMS Conference, Best Oral Presentation Award. |
| May 2007 | RTI International Outstanding Paper Award. |
| May 2007 | RTI International Highly Cited Authors Award. |
| May 2006 | RTI International Career Authors Award. |
| Aug 2005 | American Statistical Association Chapter Service Recognition Award. Presented at the 2005 Joint Statistical Meeting. |
| June 2002 | Customer Care Award, Quintiles Inc. |
| 1998–1999 | Delta Omega Student Travel Award. |
| July 1995 | Cancer Education Program Summer Fellowship, School of Medicine. University of North Carolina at Chapel Hill. |
| 1985–1986 | Deputy Public Instruction (DPI) Scholarship, People’s Republic of Bangladesh. |
| 1982–1986 | Jahangirnagar University Merit Scholarship, Dhaka, Bangladesh. |
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