

Arpita Chatterjee

CONTACT INFORMATION	<i>E-mail:</i> achatterjee@georgiasouthern.edu	<i>Phone:</i> (912) 478-1582
RESEARCH INTERESTS	Bayesian hierarchical models, Bayesian Nonparametrics, Sparse Binary Data, Meta Analysis, Survival Analysis, Cure Rate Models, Reliability, Clinical trials, Ranked Set Sampling.	
EDUCATION	Ph.D. (Statistics)	Northern Illinois University, USA August 2012
	M.S. (Statistics)	University of New Orleans, USA July 2007
	M.S. (Statistics)	Indian Institute of Technology Kanpur, India May 2006
	B.S. (Honors in Statistics)	Visva Bharati University, India May 2004
EXPERIENCE	Assistant Professor	Department of Mathematical Sciences 08/2012 - Present Georgia Southern University
AWARDS	Topped the list of all science majors in B.Sc., Visva Bharati University, 2004. Certificate of acknowledgment for achieving a cumulative GPA of 4.0, University of New Orleans, 2007. Carol J. Feltz Memorial Scholarship, Division of Statistics, Northern Illinois University, 2009. Certificate of Teaching Excellence, Department of Mathematical Sciences, Northern Illinois University, 2011. Travel support for: Joint Statistical Meetings, Vancouver, Canada, 2010. Joint Statistical Meetings, Miami, 2011.	
GRANT SUPPORT	Georgia Southern University, Research Scholarly Pursuit Funding: A Semiparametric Bayesian Approach to Network Meta-Analysis with Applications in Modern Sciences, PI , 2014. Georgia Southern University, Interdisciplinary Pilot Funding in Coastal Plain Science, Co-PI, 2012. Central Michigan University, Travel Grant (ICOSDA 2013).	
ARTICLES ACCEPTED AND PUBLISHED	Ghosh, S., Chatterjee, A. , Ghosh, S., <i>Non-inferiority Test Based on Transformations, Journal of Computational Statistics and Data Analysis (2016).</i> http://dx.doi.org/10.1016/j.csda.2016.10.004 Samawi, H., Chatterjee, A. , Yin, J., Rochani, H., <i>On Kernel Density Estimation Based on Different Stratified Sampling, Communications in Statistics-Theory and Methods (2016).</i> http://dx.doi.org/10.1080/03610926.2016.1257714 Samawi, H., Rochani, H., Linder, D., Chatterjee, A. , <i>More Efficient Logistic Analysis Using Moving Extreme Ranked Set Sampling, Journal of Applied Statistics (2016).</i> http://dx.doi.org/10.1080/02664763.2016.1182136	

Linder, D., Samawi, H., Yu, L., **Chatterjee, A.**, Yisong, H, Vogel, R., *On Stratified Bivariate Ranked Set Sampling for Regression Estimators, Journal of Applied Statistics (2015).Vol. 42, Issue. 12, 2571-2583.*

Yu, L., Linder, D., Samawi, H., **Chatterjee, A.**, Yisong, H, and Vogel, R., *On Stratified Bivariate Ranked Set Sampling with Optimal Allocation for Naive and Ratio Estimators, Journal of Applied Statistics (2015).* <http://dx.doi.org/10.1080/02664763.2016.1177495>

ARTICLES UNDER REVIEW AND REVISION Ghosh, S., **Chatterjee, A.**, and Balakrishnan, N., *Non-parametric Confidence Intervals for Ranked Set Sampling Based on Transformations.*

Chatterjee, A., *Comparison of Posterior Variances from Parametric and Semiparametric Bayesian Models.*

Chatterjee, A., Samawi, H., Yu, L., Linder, D., Cai, J., and Vogel, R., *Regression Estimators Using Stratified Ranked Set Sampling.*

Chatterjee, A. and Polansky, A., *Fitting a Piecewise Exponential Model for the Reliability of Repairable Systems Using Hierarchical Bayesian Approaches.*

ARTICLES UNDER PREPARATION Chatterjee, A. and Basu, S., *Bayesian Modeling and Prior Selection in Sparse Binary Data with an Application to Meta Analysis of Adverse Events.*

Chatterjee, A., Ghosh, S., and Ghosh, S., *A Semiparametric Bayesian Approach using Historical Control Data for Assessing Non-inferiority in Three Arm Trials.*

Chatterjee, A., Ademola A., *A Bayesian three-arm on-inferiority trials with endpoints following a negative binomial distribution.*

PROFESSIONAL SOCIETIES Member of the American Statistical Association and the International Society of Bayesian Analysis.

PROFESSIONAL PRESENTATIONS A Hierarchical Bayesian Model for the Reliability of Repairable Systems, Second Internatonational Conference on Statistics for Twenty-First Century, University of Kerala, Trivandrum, India, December 2016.

A Note on Dirichlet Process based Semiparametric Bayesian Models, Invited talk, Internatonational Conference on Statistical Distribution and Applications (ICOSDA), Crowne Plaza, Niagara Falls, Canada, October 2016.

Bayesian Modeling for Sparse Data, Invited Talk, Second Lecture Series on Recent Developments in Statistics, Department of Statistics, Visva Bharati University, India, July 2016.

A Semiparametric Bayesian Approach to Borrow Information from Historical Control Data in Two Arm Clinical Trials, Contributed talk, ENAR Spring Meeting, Austin, Texas, March 2016.

Estimating Distribution Function Based on Stratified Ranked Set Sampling, Invited Talk, Division of Statistics, Northern Illinois University, March 2015.

A Semiparametric Bayesian Approach to Destructive Weighted Poisson Cure Rate Model, Topic contributed talk, Joint Statistical Meetings, Boston, Massachusetts, Aug

2014.

Fitting a Piecewise Exponential Model for the Reliability of Repairable Systems, Contributed talk, International Conference on Statistical Distributions and Applications, Central Michigan University, October 2013.

Binary Mixed Effects Models and Improper Priors with Application in Meta-Analysis, Contributed talk, Joint Statistical Meetings, San Diego, July 2012.

Comparison of Parametric and Nonparametric Bayesian Hierarchical Models, Contributed talk, Joint Statistical Meetings, Miami, July 2011.

Sparse Data in Meta Analysis: Parametric and Semiparametric Models and Parameterization Issues, Topic contributed talk, Joint Statistical Meetings, Vancouver, Canada, Aug 2010.

Bayesian Dose Response Modeling in Early Drug Development, Global Data Management and Statistics, Abbott Laboratories, Aug 2010.

A Bayesian Approach To Deal With Sparse Data In Meta Analysis, Third Midwest Statistics Research Colloquium, March 2010.

THESIS
SUPERVISION

Brittany Waters., M.S. thesis titled: *An Applied Bayesian Approach to Network Meta-Analysis.*

James Dow., M.S. thesis titled: *Bayesian Inference of the Weibull-Pareto Distribution.*

Ayoola Ademola, Ongoing M.S. thesis titled: *A Bayesian Three Arm Noninferiority Trials with Endpoints Following a Negative Binomial Distribution..*

PROFESSIONAL
ACTIVITIES

Reviewed research articles for *Statistics And Probability Letters*, *Journal of Computational Statistics and Data Analysis*, *Journal of Biometrics & Biostatistics* and *Obesity Reviews*.

Session Chair at Joint Statistical Meetings, Boston, Massachusetts, Aug 2014.

Session Chair at Joint Statistical Meetings, San Diego, July 2012.