

**MEDICAL UNIVERSITY OF SOUTH CAROLINA
COLLEGE OF MEDICINE
CURRICULUM VITAE (Revised 12/25/10)**

Name: Dipankar Bandyopadhyay

Office Address: Division of Biostatistics and Epidemiology,
Department of Medicine,
Medical University of South Carolina (MUSC),
135 Cannon Street, Suite 303,
P.O. Box 250835,
Charleston, SC 29425

Home Address: 143 Dorothy Drive,
Charleston, SC 29414

Phone (O): 843-876-1603

Fax (O): 843- 876-1126

E-mail: bandyopd@musc.edu

Citizenship and/or Visa Information: Indian, H1-B Visa, Permanent Resident status pending.

Education:

Institution/Location	Years	Degree/Date (Mo/Yr)	Field of Study
University of Calcutta, India	1995-1998	BS July, 1998	Statistics (Min: Econ., Math.)
University of Calcutta, India	1998-2000	MS July 2000	Statistics
University of Georgia, Athens	2001-2003	MS May 2003	Statistics
University of Georgia, Athens	2003-2006	PhD May 2006	Statistics (Advisor: Prof. Somnath Datta)

Dissertation title: "Novel nonparametric methods for event time data"

Faculty Appointments: (Begin with initial appointment):

Years	Rank	Institution	Department
2006-2009 (June)	Assistant Professor (Tenure-track)	MUSC	Dept. of Biostatistics, Bioinformatics and Epidemiology (DBBE)
2009 (July) -	Assistant Professor (Tenure-track)	MUSC	Division of Biostatistics and Epidemiology (DBE), Department of Medicine

Other Experience:

Years	Position	Institution	Department
Nov. 2009	Visiting assistant professor	Erasmus University MC, Rotterdam	Dept. of Biostatistics
Nov. 2009	Visiting assistant professor	Catholic University of Leuven, Belgium	Dept. of Biostatistics
Oct. 2007	Visiting assistant professor	Wake Forest University	Dept. of Mathematics
Su 2004/05	Visiting research student	Wake Forest University	Dept. of Mathematics
2001-2005	Teaching assistant	University of Georgia	Dept. of Statistics
Sp/Su 2005	Graduate instructor	University of Georgia	Dept. of Statistics

Membership in professional/scientific societies (include offices held):

National Societies:

2002 – Present American Statistical Association (ASA)

2002 – Present	Institute of Mathematical Statistics (IMS)
2005 – Present	International Biometric Society (IBS)
2002 – Present	International Indian Student Association (IISA)
2009 – 2011	Regional Advisory Board (RAB) of ENAR
2010 – 2014	Member of the Finance committee of the IBS

Local Societies:

2008 - 2009	South Carolina Chapter of the ASA (Chapter Representative)
2009 -	South Carolina Chapter of the ASA (President)

Editorial Positions:

Associate Editor for Journal of Agricultural, Biological and Environmental Statistics (JABES), 2011-2013
 JP Journal of Biostatistics (JPJB), 2011-2013

Statistical Reviewer for Eye, The Scientific Journal of The Royal College of Ophthalmologists

Referee for Computational Statistics and Data Analysis (3), American Statistician (2), Lifetime Data Analysis (2), Communications in Statistics- Theory and Methods (4), Journal of Statistics and Applications (1), Journal of Statistical Computation and Simulation (1), Journal of Dental Research (1), Statistics in Medicine (3), Mathematical Biosciences (1), Journal of Applied Probability and Statistics (1), Journal of Applied Statistics (1), Sankhya (1), Scandinavian Journal of Statistics (3), Statistics and Probability Letters (5), Journal of Traumatic Stress (1)

Book proposal reviewer for Wiley, Prentice-Hall, Kuiper-Collins, CRC Press

Other Professional Activities:

- Judge, Student Paper Competition, 2010 SRCOS Summer Research Competition, Virginia Beach, VA, June 6-9
- Chaired an invited session titled ‘High dimensional variable selection: At the crossroad of Bayes and frequentist inference’, at the 2009 Joint Statistical Meetings, Washington DC, August 1-6.
- Organized an invited session titled ‘Recent advances in nonparametric methods for interval-censored data’, at the 2009 Joint Statistical Meetings, Washington DC, August 1-6.
- Organized a topic-contributed session titled ‘Applications of Bayesian Methods to Biomedical Data’, at the 2009 Joint Statistical Meetings, Washington DC, August 1-6.
- Chaired an invited session titled ‘Semiparametric Methods in Survival Analysis’ at the 2008 Southern Regional Council on Statistics (SRCOS) Summer Research Conference, Charleston, SC June 8-11
- **Conference Chair** for 2008 SRCOS Summer Research Conference (SRCOS SRC), Charleston, SC June 8-11
- Chaired an invited session titled ‘Regularization and Hierarchical Modeling: Two philosophies for Variable Selection’ at the 2008 ENAR Spring Meeting, Arlington, VA, March 16-19.

Extramural Grants/award amount (current and past):

Funded grants as Principal Investigator (PI)

R03 Grant, (PI: Bandyopadhyay)	07/01/10-06/30/2012	NIH/NIDCR
Robust nonparametric methods with variable selection for clustered dental data		
Role in Project: PI with 35% effort		

ASA (American Statistical Association) Travel Grant (\$6,550) for 2008 SRCOS SRC (“Modern Semiparametric Methods in Action”), Charleston, SC June 8-11. Role in Project: Co-PI.

South Carolina EPSCoR/IDeA Grant (\$10,000) for 2008 SRCOS SRC (“Modern Semiparametric Methods in Action”), Charleston, SC June 8-11. Role in Project: Co-PI.

Funded grants as Co-Investigator (Co-I)

P20 RR017696-06 (PI: Kirkwood, K), E. Slate (Dir-Core B) 09/30/07-06/30/12 NIH/NCRR
South Carolina COBRE for Oral Health: Core B - Biostatistics Core
Role on Project: Co-Investigator in Biostatistics Core (10% effort)

5 U10 DA013727-09 (PI: K. Brady) 09/01/2009-02/28/2011 NIH/NIDA
Southern Consortium Node of Clinical Trials Network (CTN)
Role on Project: CTN Scholar (25% effort)

Collaborative Unit (PI: P. Nietert) 01/01/2010-12/31/2010 MUSC
Division of Biostatistics and Epidemiology (DBE), MUSC
Role on Project: Co-Investigator (15% effort)

Funded Grants (Past)

K12HD055885 (PI: K. Brady) 02/01/2010-08/01/2010 NIH/NICHHD
Building Interdisciplinary Research Careers in Women's Health
Role on Project: Co-investigator (10% effort)

R21 (PI: Hon Yuen) 07/01/2009-05/30/2010 NIH/NIDCR
Oral Home telecare with Tetraplegics
Role on Project: Co-investigator (5% effort)

WG-BX-00002 (PI: E. Letourneau) 09/01/06 - 07/31/09 National Institute of Justice (NIJ)
Evaluating the Effectiveness of Sex Offender Registration and Notification Policies for Reducing Sexual Victimization
Role in Project: Co-investigator (8.5% effort)

R49-000-567 (PI: E. Letourneau) 09/01/05-08/31/09 Center for Disease Control and Prevention (CDC)
Preventing Sexual Violence: Does Sex Offender Registration and Notification Work?
Role in Project: Co-investigator (25.5% effort)

Submitted Grants (Pending)

R03 Grant, Co-PI (30% effort), Title: “Robust spatial models for clustered periodontal data”, NIH/NIDCR. **(Received a score of 25 with high potential for funding)**

R03 Grant, Co-PI (10% effort), Title: “Robust transition models for the analysis of longitudinal drinking and substance use outcomes”, (Under Review) for NIH/NIAAA.

R01 Grant, Co-I (10% effort), Title: “Impact of MRSA Decolonization therapy on MRSA infection and transmissison”, (Under Review) for NIH/AHRQ.

Pilot grant, Co-I (12.5% effort), Title: “Cholesterol, Race and Cognitive Change”, (Under review) for *American Health Assistance Foundation*

Pilot grant, Co-I (10% effort), Title: “Intraocular lens power calculation formulas for pediatric eyes”, (Under review) for *Bausch + Lomb Early Vision Institute and Lions Clubs International Foundation*

Other Grants

R21 Grant., Co-I (5% effort), Title: "Oral home telecare with tetraplegics" (PI: Dr. Hon Yuen), *NIH/NIDCR*
Not associated anymore because PI left MUSC

CDC Grant, Co-I (25% effort), Title: "Sex offender registration and notification: Will SORNA work?" (PI: Dr. Elizabeth Letourneau), Not funded

R01 Grant to NIH/NINR, Co-I (20% effort), Title: "Nursing Intensity, Nurse Characteristics and Patient Outcomes", (PI: Dr. John Welton), Not funded

Awards and Honors:

2010 Nominated for 2010 MUSC Foundation Developing Faculty Award
2010 Included in Presidential Who's Who: 2010 Edition
2010 Junior Researcher Travel award to 2010 UFL Winter Workshop, Gainesville, FL
2009 Elected **President** of the South Carolina Chapter of the ASA
2008 Included in Cambridge Who's Who: 2008 Edition
2008 NIH Travel award to ENAR Workshop for Junior Researchers, 2008 ENAR, Arlington, VA
2008 CRC Book Prize at Bayesian Biostatistics Conference, MD Anderson Cancer Center, Houston, TX
2008 Travel award to Bayesian Biostatistics Conference, MD Anderson Cancer Center, Houston, TX
2007 Travel award to DAE Meeting, University of Memphis, TN
2007 Travel award to 9th Bayes Workshop, Carnegie Mellon University, Pittsburgh, PA
2007 NSF Travel award to AISC 2007 Meeting, Univ. of North Carolina, Greensboro, NC
2007 Travel Award to 32nd Spring lecture Series on Spatial Statistics, University of Arkansas, Fayetteville, AR
2006 ASA Stat Bowl (**Team Champion**), JSM Seattle.
2006 Univ. of Georgia Franklin College Mini-Grant, ENAR 2006 Meeting, Tampa, FL
2005 Univ. of Georgia Graduate **Dissertation Completion Fellowship**
2005 Honorable mention, Student paper Award, SCMA 2005 Conference, Auburn, AL
2005 ASA Stat Bowl (Individual Championship) **Runner Up**, JSM, Minneapolis
2005 R L Anderson Student Paper Award, SRCOS Annual Meeting, Clemson, SC
2005 Travel award to FACM conference, NJIT, Newark, NJ
2005 Travel award to MBSW conference, Muncie, IN
2004 Travel award to SRCOS SRC Meeting, Blacksburg, VA
2001 Passed National Eligibility Test in Mathematical Sciences, conducted by UGC-CSIR, Govt. of India.
1997 First position, Annual statistics seminar contest, RKM Residential College, Univ. of Calcutta, India
1987-1994 Residential Merit Scholarship, Govt. of India (Entire educational expenses sponsored by Govt. of India)

Major Teaching Responsibilities (Current and Upcoming):

At MUSC

Year	Course Number and Title	Semester Hours	# of students	Role	% Responsible
2011 (Sp)	BMTRY 711: Categorical Data Analysis	3	3	Primary	100
2009 (Fall)	BMTRY 704: Nonparametric Methods in Biology & Medicine	3	7	Primary	100
2008 (Sp)	BMTRY 718: Stochastic Processes in Biology & Medicine	3	7	Primary	100
2007 (Sp)	BMTRY 711: Categorical Data Analysis	3	7	Primary	100

At UGA

Year	Course Number and Title	Semester Hours	# of students	Role	% Responsible
2005 (Fall)	STAT 6210: Statistical Methods	3	30	Primary	100
2005 (Su)	STAT 6360: Statistical Programming in SAS	3	30	Guest	20

Major Research Interests (Methodological and Clinical):

Bayesian Biostatistics
Spatial epidemiology
Robust methods
Statistical methods in oral health
Clustered/correlated data
Survival analysis
Nonparametric methods
Substance abuse
Criminal justice/sex-offenders research
Diabetes and Hypertension

Publications:

Peer-reviewed journal articles (In reverse chronological order, * denotes a student author)

36. Marlow N, Slate E, **Bandyopadhyay D** and Leite R. (2011). "Health insurance status is associated with periodontal disease progression among Gullah African Americans with type-2 diabetes mellitus", (In Press), *Journal of Public Health Dentistry*
35. DeSantis SM, Baker NL, Back SE, Spratt E, *Ciolino JD, Moran-Santa Maria M, **Bandyopadhyay D** and Brady KT. (2011). "Gender differences in the effect of early life trauma on HPA axis functioning", (In Press), *Depression and Anxiety*
34. DeSantis S and **Bandyopadhyay D**. (2011) "Hidden Markov models for zero-inflated Poisson counts with an application to substance use", (Tentatively accepted), *Statistics in Medicine*
33. **Bandyopadhyay D**, Reich BJ and Slate EH. (2011). "A spatial Beta-Binomial model for clustered count data on dental caries", (In Press), *Statistical Methods in Medical Research*
32. Marlow N, Slate E, **Bandyopadhyay D**, Salinas C, Fernandes J. (2011). "An evaluation of serum albumin, root caries, and other covariates in Gullah African Americans with Type-2 diabetes", (In Press), *Community Dentistry and Oral Epidemiology*
31. *VanMeter EM, Garrett-Mayer E and **Bandyopadhyay D**. (2011). "Proportional odds model for dose finding clinical trial designs with ordinal toxicity grading", (In Press), *Statistics in Medicine* (**Paper selected for Society for Clinical Trials Student Award**)
30. *Li X, **Bandyopadhyay D**, Lipsitz S, Sinha D. (2011). "Likelihood methods for binary responses of present components in a cluster", (In Press), *Biometrics* (Paper selected for **2010 ENAR Distinguished Student Paper Award**)
29. **Bandyopadhyay D**, Lachos VH, Abanto-Valle C and Ghosh P. (2010) "Linear mixed models for skew normal/independent bivariate responses with applications to periodontal data", *Statistics in Medicine*, 29(25), 2643-2655.
28. **Bandyopadhyay D**, Marlow N, Fernandes JK, Leite R. (2010). "Periodontal disease progression and glycemic control

- among Gullah African Americans with type-2 diabetes”, *Journal of Clinical Periodontology*, 37(6), 501-509.
27. Datta S, **Bandyopadhyay D**, Satten G. (2010). “Inverse probability of censoring weighted *U*-statistics for right-censored data with applications to testing of hypothesis”, *Scandinavian Journal of Statistics*, 37, 680-700.
 26. Letourneau EJ, **Bandyopadhyay D**, Armstrong K, Sinha D. (2010) “Do sex offender registration and notification requirements deter juvenile sex crimes?”, *Criminal Justice and Behavior*, 37(5), 553-569
 25. Letourneau EJ, Levenson JS, **Bandyopadhyay D**, Armstrong K, Sinha D. (2010). “Effects of South Carolina's sex-offender registration and notification policy on deterrence of adult sex crimes”, *Criminal Justice and Behavior*, 37(5), 537-552.
 24. Letourneau EJ, Levenson JS, **Bandyopadhyay D**, Armstrong KS and Sinha D. (2010) “The effects of sex offender registration and notification on judicial decisions”, *Criminal Justice Review*, 35(3), 295-317.
 23. **Bandyopadhyay D**, Sinha D, Lipsitz S and Letourneau E. (2010) “Changing approaches of prosecutors towards juvenile repeated sex-offenders: a Bayesian evaluation”, *The Annals of Applied Statistics*, 4(2), 805-829.
 22. Yuen HK, *Wolf BJ, Magruder KM, **Bandyopadhyay D**, Selassie AW and Salinas CF. (2010) “Factors that limit access to dental care for people with spinal cord injury”, *Special Care in Dentistry*, 30(4), 151-156.
 21. Letourneau EJ, Levenson JS, **Bandyopadhyay D**, Sinha D and Armstrong KS. (2010) “Effects of South Carolina's sex offender registration and notification policy on adult recidivism”, *Criminal Justice Policy Review*, 21(4), 435-458.
 20. Reich B and **Bandyopadhyay D**. (2010) “A latent factor model for spatial data with informative missingness”, *The Annals of Applied Statistics*, 4(1), 439-459.
 19. Abanto-Valle CA, **Bandyopadhyay D**, Lachos VH and Enriquez I. (2010) “Robust Bayesian analysis of heavy-tailed stochastic volatility models using scale mixtures of normal distribution”, *Computational Statistics and Data Analysis*, 54, 2883-2898.
 18. Subramanian S, **Bandyopadhyay D**. (2010) “Doubly robust semiparametric estimation for the missing censoring indicator model”, *Statistics and Probability Letters*, 80, 621-630.
 17. **Bandyopadhyay D** and Jacome-Pumar A. (2010) “Nonparametric estimation of conditional cumulative hazards for missing population marks”, *Australian and New Zealand Journal of Statistics*, 52(1), 75-91.
 16. *Lin L, **Bandyopadhyay D**, Lipsitz S and Sinha D. (2010) “Association models for clustered data with binary and continuous responses”, *Biometrics*, 66(1), 287-293.
 15. Yuen HK, *Wolf, BJ, **Bandyopadhyay D**, Magruder KM, and London S. (2009) “Oral health knowledge and behavior among adults with diabetes”, *Diabetes Research and Clinical Practice*, 86(3), 239-246.
 14. DeSantis S, **Bandyopadhyay D**, Back S and Brady K. (2009) “Non-treatment clinical studies of cocaine and methamphetamine users are protective against follow-up substance abuse”, *Drug and Alcohol Dependence*, 105, 227-233
 13. Slate E and **Bandyopadhyay D**. (2009) “An investigation of the MC-SIMEX method with application to measurement error in periodontal outcomes”, *Statistics in Medicine* 28, 3523-3538.
 12. Chi AC, Appleton K, Henriod J, Kraye J, Marlow NM, **Bandyopadhyay D**, Sigmon R and Kurtz DT. (2009) “Differential induction of CYP1A1 and CYP1B1 by benzo[a]pyrene in oral squamous cell carcinoma cell lines and by tobacco in oral mucosa”, *Oral Oncology*, 45(11), 980-985.

11. Welton JM, Zone-Smith L and **Bandyopadhyay D**. (2009) "Estimating nursing intensity and direct cost using the nurse-patient assignment", *Journal of Nursing Administration*, 39(6), 276-284.
10. Letourneau EJ, **Bandyopadhyay D**, Sinha D and Armstrong KS. (2009) "The influence of sex offender registration on juvenile sexual recidivism", *Criminal Justice Policy Review*, 20(2), 136-153.
9. Letourneau EJ, **Bandyopadhyay D**, Sinha D and Armstrong KS. (2009) "Unintended effects: The influence of sex offender policies on juvenile justice decision making", *Sexual Abuse: A Journal of Research and Treatment*, 21(2), 149-165.
8. **Bandyopadhyay D**, Reich B and Slate E. (2009). "Bayesian modeling of multivariate spatial binary data with applications to dental caries", *Statistics in Medicine*, 28, 3523-3538.
7. Yuen HK, *Mountford WK, Magruder KM, **Bandyopadhyay D**, Hudson PL, Summerlin LM and Salinas CF (2009). "Adequacy of oral health information for patients with diabetes", *Journal of Public Health Dentistry*, 69(2), 135-141
6. Subramanian S and **Bandyopadhyay D** (2008). "Semiparametric models for left truncation and right censoring with missing censoring indicators", *Statistics and Probability Letters*, 78, 2572-2577
5. **Bandyopadhyay D** and Datta S. (2008). "Testing equality of survival curves when population marks are missing", *Journal of Statistical Planning and Inference*, 138, 1722-1732
4. Yuen HK, Gillespie B, Barkley RA, Day TA, **Bandyopadhyay D** and Sharma A (2007) "Driving performance in patients with cancer in the head and neck region: A pilot study", *Archives of Otolaryngology- Head and Neck Surgery*, 133(9), 904-909
3. Berenhaut K, *Foley JD and **Bandyopadhyay D** (2006) "Maximization for inner products under quasi-monotone constraints", *Journal of Inequalities in Pure and Applied Mathematics*, 7(5), 1-10
2. Berenhaut KS, **Bandyopadhyay D** (2005) "Monotone convex sequences and Cholesky decomposition of symmetric Toeplitz matrices", *Linear Algebra and its Applications*, 403(1), 75-85
1. Chowdhury AS, Arabnia H and **Bandyopadhyay D** (2005) "Improved stereo correlation using Moravec operator and Kolmogorov-Smirnov test", *Proceedings of the 2005 International Conference on Computer Vision (VISION, '05): June 20-23, 2005, Las Vegas, USA*, 24-30

Journal Articles (Under revision/Under review):

- R1. *Swearingen CJ, **Bandyopadhyay D**, Woolson RF, Tilley BC. "Performance of Beta regression in detecting independent group differences", (Under Revision), *Computational Statistics and Data Analysis*
- R2. *Swearingen CJ, Tilley BC, Adams RJ, Rumboldt Z, Nicholas J, **Bandyopadhyay D** and Woolson RF. "Application of Beta regression to analyze ischemic stroke volume in NINDS rt-PA clinical trials", (Under Revision), *Neuroepidemiology*
- R3. Lachos VH, **Bandyopadhyay D** and *Garay AM. "Heteroscedastic nonlinear regression models based on scale mixtures of skew-normal distributions", (Under Revision), *Statistics and Probability Letters*
- R4. Korte JE, Magruder KM, *Chiuzan C, Logan S, **Bandyopadhyay D**, Sonne SC, Sampson R, Brady KT. "Gender and ethnic group differences in outcome successes in clinical trials for treatment of drug addiction", (Under Revision), *American Journal of Drug and Alcohol Abuse*

- R5. *VanMeter EM, Garrett-Mayer E and **Bandyopadhyay D**. "Dose finding clinical trial design for ordinal toxicity grades using the continuation ratio model: an extension of the continual reassessment method", (Under Review), *Clinical Trials*
- R6. **Bandyopadhyay D**, DeSantis S, Korte J and Brady K. "Mixture or hurdle zeros: some considerations in substance abuse research", (Under Review), *American Journal of Drug and Alcohol Abuse*
- R7. Lachos VH, **Bandyopadhyay D** and Dey DK. "Linear and non-linear mixed-effects models for censored HIV viral loads using normal/independent distributions", (Revision submitted), *Biometrics*
- R8. Korte JE, Magruder KM, *Chiuzan C, Logan S, Killen T, **Bandyopadhyay D** and Brady KT. "Assessing drug use during follow-up: direct comparison of candidate outcome definitions in pooled analyses of addiction treatment studies", (Under Review), *American Journal of Drug and Alcohol Abuse*.
- R9. Gray KM, Riggs PD, Min S-J, Winhusen T, **Bandyopadhyay D** and Mikulich SK. "Nicotine and cannabis use trajectories among adolescents in treatment for attention-deficit/hyperactivity disorder and substance use disorders", (Under Review), *Drug and Alcohol Dependence*
- R10. Lachos VH, **Bandyopadhyay D** and Dey DK. "Skew-normal linear mixed models for censored responses with applications to HIV viral loads", (Under Revision), *Biometrical Journal*
- R11. Yuen HK, Westwater C, DeGarmo J and **Bandyopadhyay D**. "The immediate effect of xylitol chewing gum and mouth rinse on salivary levels of mutans streptococci", (Under review as 'Letter to the Editor'), *British Dental Journal*
- R12. Yuen HK, *Weng Y, **Bandyopadhyay D**, Mahoney S, Reed SG, Silver RM and Leite R. "Effect of multi-faceted intervention on gingival health among adults with systemic sclerosis", (Under Review), *Clinical and Experimental Rheumatology*
- R13. Voss TS, Elm JE, Wielinski C, Aminoff MJ, Chou KL, Sudarsky L, Tilley, B and **Bandyopadhyay, D**. "Fall frequency and risk assessment in early Parkinson's disease", (Under Review), *Neurology*
- R14. Egan BM, Shaftman SR, **Bandyopadhyay D**, Wagner CS and Lackland DT. "Demographic differences in the treatment and control of glucose in Type-2 diabetic patients: implications for healthcare practice", (Under review), *Diabetes Care*
- R15. Trivedi R, Wilson ME and **Bandyopadhyay D**. "Refractive shift in pseudophakic eyes during second decade of life", (Under Review), *Ophthalmology*
- R16. *Van Meter E, Garrett-Mayer E and **Bandyopadhyay D**. "ordcrn: An R package for variations of the likelihood-based continual reassessment method design for dose finding clinical trials with ordinal toxicity grading", (Under Review), *Journal of Statistical Software*

Journal Articles (In Progress):

- P1. **Bandyopadhyay D**, Lachos VH and Abanto-Valle C. "Robust joint nonlinear mixed-effects models for censored HIV viral loads with covariate measurement error"
- P2. Nieto-Barajas LE and **Bandyopadhyay D**. "A zero-inflated Markov random field model with applications to asthma mortality"
- P3. **Bandyopadhyay D** and Jacome-Pumar A. "Weighted Kaplan-Meier tests for independent group differences when population marks are missing"

- P4. **Bandyopadhyay D**, Lachos VH and Prates M. "An exact implementation of EM algorithm for correlated binary data applications to periodontal disease"
- P5. Park J-H and **Bandyopadhyay D**. "A semi-parametric intervention time-series model with applications to sex-offense research"
- P6. Reich BJ, **Bandyopadhyay D** and Bondell H. "Nonparametric Bayesian spatial kernel models for periodontal data"
- P7. **Bandyopadhyay D**, Lachos VH and Reich BJ. "Spatial skew-normal/independent models for clustered periodontal data with informative presence"
- P8. **Bandyopadhyay D**, Slate EH, Marlow N and Leite R. "Nonparametric assessment of associations between periodontal disease and HbA1c for Gullah African-American diabetics"
- P9. **Bandyopadhyay D**, Reich BJ, Marlow NM and Slate EH. "Exploring spatial models for informatively present clinical attachment loss outcomes"
- P10. Cancho VG, **Bandyopadhyay D** and Lachos VH. "A compound negative binomial cure rate model".
- P11. *Li X, Lipsitz S, Sinha D, **Bandyopadhyay D** and Molenberghs G. "Analysis of longitudinal data with informative missingness using shared random effects model".
- P12. Letourneau EJ, Armstrong KS, **Bandyopadhyay D** and Sinha D. "Sex offender registration and notification policy increases juvenile plea bargains".
- P13. **Bandyopadhyay D**, Cai B and Slate E. "A two-part excess zero Binomial model for clustered count data with applications to dental caries".

Peer Reviewed Electronic Publications:

1. Adhikari M, **Bandyopadhyay D**, Paudel L, Houston J. "Water Demand Forecasting for Animal Agriculture: A time-series approach", abstract published in CD-ROM, AWRA Annual Conference, Nov 2-5, 2003, San Diego, CA.
2. Adhikari M, Houston J, Paudel L, **Bandyopadhyay D**, Paudel BN, Devkota N. (2003). Forecasting Irrigation Water Demand: Structural and Time Series Analysis, *AAEA Annual Meeting, Montreal, Canada (July 27-30, 2003)*, accepted (for presentation), <http://ageconsearch.umn.edu/handle/22109>
3. Adhikari M, Houston J, **Bandyopadhyay D**, Paudel L, Devakota L, Paudel BN (2003). Water Demand Forecasting for Poultry Production: Structural, Time Series and Deterministic Assessment, *AAEA Annual Meeting, Montreal, Canada (July 27-30, 2003)*, accepted (for presentation), <http://ageconsearch.umn.edu/handle/22127>
4. **Bandyopadhyay, D.**, Wiegand, R., Slate, E., Fernandes. J., London, S. "Association between periodontal disease and HbA1c: A nonparametric assessment", *Journal of Dental Research*, 86 (Spec. Iss. A): 0074, 2007
5. Yuen, H.K., Magruder, K.M., **Bandyopadhyay, D.**, Salinas, C., Slate, E., London, S. "Adequacy of oral health information provided to diabetic patients", *Journal of Dental Research*, 86 (Spec. Iss. A): 2132, 2007
6. Marlow N, Slate E, **Bandyopadhyay D**, Fernandes J, Salinas CJ. "Association between root-caries and serum albumin in Gullah African-American diabetics", *Journal of Dental Research*, 88 (Spec. Iss. A): 96, 2009

Scholarly Books and Monographs:

1. **Bandyopadhyay D.** (2006) "Novel Nonparametric Methods for Event Time Data". [Doctoral Dissertation, Primary advisor: Somnath Datta], *Unpublished*

Book reviews:

1. **Bandyopadhyay D** (2010). Multiscale Modeling- A Bayesian Perspective by Ferreira and Lee, (In Press), *Technometrics*
2. **Bandyopadhyay D** (2010). Measuring Efficiency in Healthcare- Analytic Techniques and Health Policy by Jacobs, Smith and Street, (In Press), *Technometrics*

Other publications:

Front page coverage in the "Post and Courier" newspaper (October 19th, 2010) on my research in SC sex-offender registry database. Details at: <http://www.postandcourier.com/news/2010/oct/19/report-looks-at-sex-offender-registry/>

Academic Committee Activities (past 5 years):

At MUSC

Full member of graduate faculty (May 2010-Present)

Associate member of graduate faculty (September 2006 – April 2010)

At DBE (MUSC)

Seminar Committee (Chair for Biostatistics Division), DBE (2006 - present)

Library Committee, DBE (2006 - 2009)

Advanced Exam Committee, (Chair for Biostatistics Division), DBE (2007 – present)

Graduate Student Admissions Committee, DBE (2009-present)

Student development committee, DBBE (2007 – present)

Local organizing committee, 2008 SRCOS Summer Research Conference, June 8-11, 2008

Conference Co-chair, 2008 SRCOS Summer Research Conference, June 8-11, 2008

At Univ. of Georgia

Graduate Student Seminar Committee, 2005 -2006

Research Supervision

Faculty Mentee

Dr. Crystal Fynn-Longmire, Dept. of Neurosciences, MUSC, March 2010 – August 2010, on bio-statistical mentoring on projects related to Alzheimer's disease as part of 'Building Interdisciplinary Research Careers in Women's Health' at MUSC

Dr. Victor H. Lachos, Universidade Estadual de Campinas, Campinas, Brazil, July 2010. Short academic visit for collaborative research

Students at MUSC

PhD Research Co-mentor (with Elizabeth Slate), Anthony Parker, Biostatistics, 2010-Present

MS and PhD Research Co-mentor (with Elizabeth Garrett-Mayer), Emily VanMeter, Biostatistics, 2009-2010, currently assistant professor of biostatistics at University of Kentucky Cancer Center, Lexington, KY.

Won 2010 Society for Clinical Trials Student Scholarship award, 2010 MUSC Graduate Student Association Travel Scholarship, 2009 Boyd Harshbarger Southern Regional Council on Statistics (SRCOS) Travel Award, 2008-2009 MUSC Presidential Scholar, 2009 Best Presentation award in the SC ASA Chapter Meeting

PhD Dissertation committee member of Bichun Ouyang, Biostatistics, 2007-2009, currently assistant professor of biostatistics at Rush University, Chicago, IL

PhD Dissertation committee member of Christopher Swearingen, 2007-2009, currently assistant professor of biostatistics at University of Arkansas Medical Center

MSCR Dissertation committee member of Jumana Jaradat, College of Dental Medicine, MUSC, currently a PhD student at University of Pittsburgh.

Statistical mentor for Yanqui Weng, DBE PhD student in Biostatistics, MUSC on publication # [R13]

Statistical mentor for Bethany Wolf, DBE PhD student in Biostatistics, MUSC on publication # [15] and [22]

Statistical mentor for William Mountford, DBE PhD student in Epidemiology on publication # [7]

Statistical mentor for Alex Smith and Karra Grasso, 2 MUSC CDM (College of Dental Medicine) students on data analysis related to human chewing experiments generated from the Maxillofacial Prosthodontics lab (PI: Dr. Betsy Davis), Summer 2006.

Independent study advisor for Mary Mizzel, PhD student at DBE, MUSC; 2010 (Sp, Su, and Fall semesters)

Lectures and Presentations:

Invited talk

- Invited speaker, 2011 Dental Task Force Meetings, Newark, NJ, May 9-10 2011 (Upcoming).
- Invited speaker, 2011 IISA Conference on Probability, Statistics and Data Analysis, Raleigh, NC, April 21-24 2011 (Upcoming).
- Invited speaker, Dept. of Biostatistics, Emory University, Atlanta GA, March 17 2011 (Upcoming)
- Department of Bioinformatics and Biostatistics, University of Louisville, Louisville, KY, Sep 3 2010.
- 2010 SRCOS Summer Research Conference, Virginia Beach, VA, June 8 2010.
- Department of Craniofacial Biology, Medical University of South Carolina, Jan 27 2010.
- Department of Biostatistics, Catholic University of Leuven, Belgium, Nov 26 2009
- Department of Biostatistics, Erasmus University, Rotterdam, Netherlands, Nov 24 2009
- Young Researcher Session, 2009 GEOMED Conference, Charleston, SC, Nov 14-16 2009.
- Department of Biostatistics and Epidemiology, University of South Carolina, Columbia on September 30 2009
- 2009 Joint Statistical Meeting at Washington DC on August 5 2009
- Department of Statistics, University of Calcutta, India on April 24 2009
- Teatime for Science, Dept. of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC on April 6 2009
- Division of Biostatistics, Ohio State University, Columbus, OH on March 19 2009
- Department of Biostatistics, Medical College of Georgia on February 26 2009

- Teatime for Science, Dept. of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC on October 20 2008
- SRCOS Business Meeting, Columbia, SC, October 3 2008
- Oral COBRE Monthly Meeting Series, College of Dental Medicine, Medical University of South Carolina, Charleston, SC on March 5 2008
- Teatime for Science, Dept. of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC on Feb 11 2008
- 2007 DAE Meeting, University of Memphis, Memphis, TN on Oct 31 - Nov 2 2007
- ICAISC Meeting, Univ. of North Carolina, Charlotte, NC on October 12-14 2007
- Dept. of Mathematics and Statistics, Georgia State University, Atlanta, GA on December 1 2006
- Dept. of Mathematics and Statistics, Bowling Green State University, Bowling Green, OH on February 15 2006
- Dept. of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC on October 13 2005
- Dept. of Mathematics, Wake Forest University, Winston Salem, NC on May 31 2005

Contributed presentations

- Contributed poster, MUSC Department of Medicine 5th Research Day, December 9 2010.
- Contributed poster, Univ. of Florida Workshop on “Categorical Data Analysis”, Jan 14-16 2010.
- Contributed poster, MUSC Department of Medicine Annual Research Day, Dec 10 2009.
- Contributed poster, 2009 GEOMED Meeting, Charleston, SC, Nov 14-16 2009
- Contributed talk, WNAR Annual Meeting, Univ. of California, Davis, CA, June 22-25, 2008
- Contributed poster, 2008 SRCOS SRC, Charleston, SC, June 8-11, 2008
- Contributed talk, ENAR Annual Meeting, Arlington, VA, March 16-19, 2008
- Contributed poster, Bayesian Biostatistics Conference, MD Anderson Cancer Center, Jan 31-Feb 1, 2008
- Contributed talk, Bayesian Statistics Workshop, Carnegie Mellon Univ. on October 19-20, 2007
- Contributed talk, Joint Statistical Meeting (JSM), Salt Lake City, UT, July 29-Aug 2, 2007
- Contributed poster, 32nd Annual Spring Lecture Series, Univ. of Arkansas, AR on April 12-14, 2007
- Contributed talk, 2007 IADR Meeting, New Orleans, LA, March 20-23, 2007
- Contributed talk, ENAR 2006 Spring Meeting, Tampa, FL, March 26-29, 2006
- Contributed talk, SCMA 2005 Conference, Auburn, AL on December 2-4, 2005
- Contributed talk, Joint Statistical Meeting (JSM), Minneapolis, MN, August 7-11, 2005
- Poster presentation, SRCOS Annual Research Conference in Statistics, Clemson, SC, June 5-8, 2005
- Poster presentation, MBSW 2005 Conference, Muncie, IN, May 23-25, 2005
- Poster presentation, FACM Conference, NJIT, Newark, NJ, May 13-15, 2005
- Contributed talk, Graduate Student Seminar, University of Georgia, Athens, GA, January 2005

Workshop and Short Courses attended:

Workshop for Junior Researchers, ENAR Spring Meeting, Arlington, VA, March 20 2008

Teaching using Problem Based Learning, DBBE-MUSC, Dec 8, 2007

References:

Somnath Datta, PhD.,
 Professor of Biostatistics,
 Department of Bioinformatics and Biostatistics,
 University of Louisville,
 Louisville, KY 40292
 E-mail: somnath.datta@louisville.edu

Emmanuel Lesaffre, PhD.,
 Professor of Biostatistics,
 Chair, Dept. of Biostatistics,
 Erasmus University Rotterdam,
 3015 GE Rotterdam, the Netherlands
 E-mail: e.lesaffre@erasmusmc.nl

Debajyoti Sinha, PhD.,
Ron and Carolyn Hobbs Endowed Chair/Professor,
Department of Statistics,
Florida State University,
Tallahassee, FL 32306
E-mail: sinhad@stat.fsu.edu

Elizabeth H. Slate, PhD.,
Professor of Biostatistics,
Division of Biostatistics,
Medical University of South Carolina,
Charleston, SC 29425
E-mail: slate@musc.edu