

**MEDICAL UNIVERSITY OF SOUTH CAROLINA
COLLEGE OF MEDICINE
CURRICULUM VITAE**

Name: Dipankar Bandyopadhyay

Birth Date: On file

Social Security: On file

Home Address: 143 Dorothy Drive
Charleston, SC 29414

Phone (H): 843-513-8330

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

Phone (O): 843-876-1603

Fax: 843- 876-1126

E-mail: bandyopd@musc.edu

Citizenship and/or Visa Information: Indian, H1-B Visa

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)

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
Fall 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 of ENAR

Local Societies:

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

Editorial Positions:

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

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

Other Professional Activities:

- 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, 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 (Current):

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 (50% effort)

5 U10 DA013727-09 (PI: K. Brady) 09/01/2009-08/31/2010 NIH/NIDA
Southern Consortium Node of Clinical Trials Network (CTN)
Role on Project: CTN Scholar (30% effort)

R21 Grant (PI: Hon Yuen) 07/01/2009-06/30/2011 NIH/NIDCR
Oral Home telecare with Tetraplegics
Role on Project: Co-investigator (5% effort)

Funded Grants (Past):

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)

ASA (American Statistical Association) Travel Grant (\$6,550) for 2008 Southern Regional Council on Statistics Summer Research Conference (Theme: Modern Semiparametric Methods in Action), Charleston, SC June 8-11, 2008. Role in Project: Co-PI.

South Carolina EPSCoR/IDeA Grant (\$10,000) to support 2008 SRCOS SRC: Modern Semiparametric Methods in Action".
Role in Project: Co-PI

Submitted Grants (Pending):

R03 Grant, Principal Investigator with 45% effort, Title: "Robust nonparametric methods with variable selection for clustered dental data", *revision submitted* to NIH/NIDCR (National Institute of Dental and Craniofacial Research)

R01 Grant, Co-investigator with 10% effort, Title: "Comparison of MRSA isolation versus decolonization on health outcomes", (PI: Dr. Arch Chip Manious), *submitted* to NIH/AHRQ (Agency for Healthcare Research and Quality)

R01 Grant, Co-investigator with 20% effort, Title: "Nursing Intensity, Nurse Characteristics and Patient Outcomes", (PI: Dr. John Welton), *under revision* for NIH/NINR (National Institute of Nursing Research)

Awards and Honors:

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)

Academic Committee Activities (past 5 years):

At MUSC

Member of Graduate Faculty

At DBBE (MUSC)

Seminar Committee (Chair for Biostatistics Division), DBBE (2006 - present)
 Library Committee, DBBE (2006 - present)
 Advanced Exam Committee, (Chair for Biostatistics Division), DBBE (2007 – present)
 Student development committee, DBBE (2007 – present)
 PhD Dissertation committee member of Bichun Ouyang, DBBE MUSC
 PhD Dissertation committee member of Christopher Swearingen, DBBE MUSC
 MS and PhD Dissertation committee member of Emily van Meter, DBBE MUSC
 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 GA

Graduate Student Seminar Committee, 2005 -2006

Major Teaching Responsibilities (Current):

Classroom teaching

Year Responsible	Course Number and Title	Semester Hours	# of students	Role	%
2009	BMTRY 704: Nonparametric Methods in Biology & Medicine	3	7	Primary	100
2008	BMTRY 718: Stochastic Processes in Biology & Medicine	3	7	Primary Lecturer	100
2007	BMTRY 711: Categorical Data Analysis	3	5	Primary Lecturer	100
2005	STAT 6210: Statistical Methods	3	30	Primary Lecturer	100

2005	STAT 6360: Statistical Programming in SAS	3	30	Guest Lecturer	20
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Lectures and Presentations:

Invited lectures

- 2010 SRCOS Summer Research Conference, Old Dominion University, Norfolk, VA (Upcoming)
- Department of Biostatistics, Erasmus University, Rotterdam, Netherlands (Upcoming).
- Department of Biostatistics, Catholic University of Leuven, Belgium (Upcoming).
- Young Researcher Session, 2009 GEOMED Conference, Charleston, SC, Nov 14-16.
- Department of Biostatistics and Epidemiology, University of South Carolina, Columbia on September 30th, 2009
- 2009 Joint Statistical Meeting at Washington DC on August 5th, 2009
- Department of Statistics, University of Calcutta, India on April 24th, 2009
- Teatime for Science, Dept. of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC on April 6th 2009
- Division of Biostatistics, Ohio State University, Columbus, OH on March 19th 2009
- Department of Biostatistics, Medical College of Georgia on February 26th 2009
- Teatime for Science, Dept. of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC on October 20th 2008
- SRCOS Business Meeting, Columbia, SC, October 3rd 2008
- Oral COBRE Monthly Meeting Series, College of Dental Medicine, Medical University of South Carolina, Charleston, SC on March 5th 2008
- Teatime for Science, Dept. of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC on Feb 11th 2008
- 2007 DAE Meeting, University of Memphis, Memphis, TN on Oct 31st - Nov 2nd 2007
- ICAISC Meeting, Univ. of North Carolina, Charlotte, NC on October 12th -14th 2007
- Dept. of Mathematics and Statistics, Georgia State University, Atlanta, GA on December 1st 2006
- Dept. of Mathematics and Statistics, Bowling Green State University, Bowling Green, OH on February 15th 2006
- Dept. of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC on October 13th 2005
- Dept. of Mathematics, Wake Forest University, Winston Salem, NC on May 31st 2005

Contributed presentations

- 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

& about 12 other invited/contributed talk/poster presentations as a co-author.

Major Research Interests (Methodological and Clinical):

Bayesian Biostatistics
Statistical Methods in Oral Health
Analysis of clustered data
Spatial Data Analysis
Survival analysis
Nonparametric density estimation
Substance Abuse Research
Criminal Justice and Sex-offender

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

Publications:

Peer-reviewed journal articles (In reverse chronological order):

26. **Bandyopadhyay D**, Lachos VH, Ghosh P, Abanto-Valle, C. "Bayesian inference for bivariate skew-normal independent linear mixed models with applications to periodontal data", (under revision), *Statistics in Medicine*
25. Letourneau E, Levenson JS, **Bandyopadhyay D**, Armstrong K, Sinha D. (2009). "Effects of South Carolina's sex offender registration and notification policy on deterrence of sex crimes", (In Press), *Criminal Justice and Behavior*
24. Letourneau E, **Bandyopadhyay D**, Armstrong K, Sinha D. (2009) "Effects of South Carolina's sex offender registration and notification policy on deterrence of juvenile sex crimes", (In Press), *Criminal Justice and Behavior*
23. Yuen HK, Wolf, BJ, Magruder KM, **Bandyopadhyay D** and London S. (2009) "Oral health knowledge and behavior among adults with diabetes", (In Press), *Diabetes Research and Clinical Practice*
22. Letourneau E, Levenson J, **Bandyopadhyay D**, Armstrong K and Sinha D. (2009) "The effects of sex offender registration policy on criminal justice decisions", (In Press), *Criminal Justice Review*
21. **Bandyopadhyay D**, Sinha D, Lipsitz S and Letourneau E. (2009) "Changing approaches of prosecutors towards juvenile repeated sex-offenders: a Bayesian evaluation", (In Press), *The Annals of Applied Statistics*
20. Yuen HK, Wolf BJ, Magruder KM, **Bandyopadhyay D**, Selassie AW and Salinas CF. (2009) "Factors that limit access to dental care for people with spinal cord injury", (In Press), *Special Care in Dentistry*
19. Letourneau E, Levenson JS, **Bandyopadhyay D**, Sinha D and Armstrong K. (2009) "Effects of South Carolina's sex offender registration and notification policy on adult recidivism", (In Press), *Criminal Justice Policy Review*
18. 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", (In Press), *Drug and Alcohol Dependence*
17. Reich B and **Bandyopadhyay D**. (2009) "A latent factor model for spatial data with informative missingness", (In Press), *The Annals of Applied Statistics*
16. Abanto-Valle CA, **Bandyopadhyay D**, Lachos VH and Enriquez I. (2009) "Robust Bayesian analysis of heavy-tailed stochastic volatility models using scale mixtures of normal distribution", (In Press), *Computational Statistics and Data Analysis*
15. Slate E and **Bandyopadhyay D**. (2009) "An investigation of the MC-SIMEX method with application to measurement error in periodontal outcomes", (In Press), *Statistics in Medicine*
14. **Bandyopadhyay D** and Jacome-Pumar A. (2009) "Nonparametric estimation of conditional cumulative hazards for missing population marks", (In Press), *Australian and New Zealand Journal of Statistics*
13. Chi AC, Appleton K, Henriod J, Krayner 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", (In Press), *Oral Biology*
12. 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.
 11. Letourneau E, **Bandyopadhyay D**, Sinha D and Armstrong K. (2009) "The influence of sex offender registration on juvenile sexual recidivism", *Criminal Justice Policy Review*, 20(2), 136-153.
 10. Letourneau E, **Bandyopadhyay D**, Sinha D and Armstrong K. (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.
 9. Lin L, **Bandyopadhyay D**, Lipsitz S and Sinha D. (2009) "Association models for clustered data with binary and continuous responses", (In Press), *Biometrics* DOI: 10.1111/j.1541-0420.2008.01232.x
 8. **Bandyopadhyay D**, Reich B and Slate E. (2009). "Bayesian modeling of multivariate spatial binary data with applications to dental caries", (In Press), *Statistics in Medicine*
 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/Submitted):

1. Subramanian S, **Bandyopadhyay D**. "Doubly robust semiparametric estimation in a missing censoring indicator model", *submitted*
2. Datta S, **Bandyopadhyay D**, Satten G. "Inverse probability of censoring weighted U -statistics for right censored data with applications", revision submitted for *Scandinavian Journal of Statistics*
3. Marlow N, Slate E, **Bandyopadhyay D**, Salinas C, Fernandes J. "Cross-sectional relationship between root caries and serum albumin in a study population of Gullah African American diabetics", *submitted*
4. Li X, **Bandyopadhyay D**, Lipsitz S, Sinha D. "Likelihood methods for binary responses of present components in a cluster", under revision for *Biometrics*
5. DeSantis S and **Bandyopadhyay D**. "A hidden Markov model for zero-inflated Poisson counts with an application to drug using behavior", *submitted*
6. **Bandyopadhyay D**, Marlow N, Fernandes JK, Leite R. "Periodontal progression and glycemic control among Gullah African Americans with type-2 diabetes", under revision for *Journal of Clinical Periodontology*
7. Swearingen CJ, **Bandyopadhyay D**, Woolson RF, Tilley BC. "Performance of Beta regression in detecting independent group differences", *submitted*
8. VanMeter EM, Garrett-Mayer E and **Bandyopadhyay D**. "Proportional odds model for dose finding clinical trial designs with ordinal toxicity grading", *submitted*

Scholarly Books and Monographs:

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

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 format at the AWRA (American Water Resources Association) 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) with peer-review, <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) with peer-review, <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

References:

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

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

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

Stuart Lipsitz, PhD., ScD.,
Head of Biostatistics,
Center for Surgery and Public Health,
Brigham and Women's Hospital,
Harvard Medical School,
Boston, MA 02115
E-mail: SLIPSITZ@partners.org