

## **PERSONAL INFORMATION**

Dipankar Bandyopadhyay, PhD  
Professor, Department of Biostatistics, School of Medicine  
*Senior Advisor*, Data and Cancer Modeling, Massey Cancer Center



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## **PROFESSIONAL SUMMARY**

Primary Departmental Area: Biostatistics

### **Research Interests**

Methodological: Spatial & spatiotemporal modeling, exploring non-Gaussian features, time-to-event analysis, clustered/correlated data, Bayesian methods, matrix-variate/tensor regression, dynamic treatment regime & mHealth, and computing in large electronic health records.

Applied: Epidemiological problems in oral health, cancer and health disparity (significant focus in all three), organ transplantation, neuroscience, addiction, criminal justice, and other behavioral studies.

## **EDUCATION**

### GRADUATE

2003-2006      Ph.D. (2006), Dept. of Statistics, University of Georgia (UGA), Athens, GA  
Major: Statistics  
Thesis: *Novel Nonparametric Methods for Event Time Data*  
Thesis Advisor: Somnath Datta, PhD [currently @ University of Florida]  
Awards: UGA Graduate School *Dissertation Completion Fellowship*

2001-2003      M.S (2003), Dept. of Statistics, University of Georgia (UGA), Athens, GA  
Major: Statistics

1998-2000      M.Sc. (2000), Dept. of Statistics, University of Calcutta, Kolkata, India  
Major: Statistics

## UNDERGRADUATE

1995-1998 B.Sc. (1998), Dept. of Statistics, Ramakrishna Mission Residential College, Narendrapur (affiliated to University of Calcutta), Kolkata, India  
Major: Statistics; Minor: Economics and Mathematics  
Awards: *First position*, Annual Statistics Seminar Contest

## ACADEMIC APPOINTMENT HISTORY

2017 — Full Professor [Tenured], Department of Biostatistics, VCU  
2015 — 2017 Associate Professor [Tenure eligible], Department of Biostatistics, VCU  
2011 — 2015 Associate Professor [Tenure eligible], Division of Biostatistics, School of Public Health, University of Minnesota, Minneapolis, MN  
2006 — 2011 Assistant Professor [Tenure eligible], Department of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC  
2001 — 2006 Graduate Teaching Assistant, Department of Statistics, University of Georgia, Athens, GA

## OTHER EMPLOYMENT HISTORY/SIGNIFICANT WORK EXPERIENCE

2022 — Present Senior Advisor, Data and Cancer Modeling, VCU Massey Cancer Center  
2016 — 2021 Director, Biostatistics Shared Resources, VCU Massey Cancer Center  
2018 — Present Co-leader, Oral Cancer Disparities Workgroup, Massey Cancer Center  
2016 — 2019 Research Fellow, VCU Node of STATMOS [Statistical Methods for Atmospheric & Oceanic Sciences]

## SPECIAL AWARDS

2021 **Dayanand Naik Award**, Virginia Chapter of the American Statistical Association  
*Instituted in 2021 to commemorate the life and contributions of Prof. Dayanand Naik from Old Dominion University (now deceased), a longtime member and officer for the VA Chapter of the ASA, the award is given to an individual from academia, government, or industry, who work or reside in Virginia (during the time of the award), in acknowledgement of outstanding research contributions and service to the Commonwealth of Virginia in statistics and related fields. Dr. Bandyopadhyay received the inaugural Naik award as a recognition of his accomplishments.*

2021 **Outstanding Statistical Applications Award**, American Statistical Association (ASA), for the paper: Guan Q, Reich BJ, Laber E, **Bandyopadhyay D**. Bayesian nonparametric policy search with application to periodontal recall intervals, *Journal of the American Statistical Association – Applications & Case Studies* 2020; 115(531): 1066-1078  
*Established in 1986, the award recognizes a distinguished author (or authors) for a paper that demonstrate an outstanding application of statistics in any substantive field. Submitted papers are judged by a committee appointed by the ASA on the impact of the statistical application, and the ingenuity and/or novelty of the statistical treatment of the problem. Eligible work includes formal peer-reviewed papers, monographs, reports, and other substantive evidence, appearing*

within 2 years of the award presentation. [Reference: ASA's award [website](#)]

- 2020 **Gertrude M. Cox Award**, presented by the Washington Statistical Society (WSS) & RTI International  
*The Cox award annually recognizes a statistician in early to mid-career (less than 15 years after terminal degree), who has made significant contributions to one or more areas of applied statistics in which Dr. Gertrude M. Cox worked, which are survey methods, experimental design, biostatistics, and statistical computing*
- 2015 **Outstanding Young Statistical Scientist Award (YSSA), Applications Category** from the International Indian Statistical Association [IISA]  
*The IISA YSSA recognizes outstanding contributions made by a IISA member in each of the areas of Theory & Methods, Applications, and Statistical Practice. Eligible candidates should be strictly under the age of 44 throughout the award calendar year*
- 2015 **Best Associate Editor Award** for *Journal of Agricultural, Biological and Environmental Statistics* (JABES). Plaque citation below:  
*"In recognition for promptness, careful reviews, outstanding dedication, initiative and tireless commitment to the journal"*
- 2011 **CDC/ATSDR Statistical Science Award** for Best Theoretical Paper:  
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(4): 680-700.
- 2010 **Best Poster award** [Pediatric Category], ASCRS/ASOA Meeting, Boston, MA
- 2010 **Best Paper award** [Pediatric Category], ASCRS/ASOA Meeting, Boston, MA
- 2008 **CRC Book Prize**, Bayesian Biostatistics Conference, M. D. Anderson Cancer Center, TX
- 2005 **R L Anderson Student Paper Award**, SRCOS Annual Meeting, Clemson, SC
- 1997 1<sup>st</sup> position, Annual statistics seminar contest, RKM Residential College, Univ. of Calcutta, India; received certificate
- 1987— 94 Govt. of India Merit Scholarships in approved residential secondary schools.  
*Entire educational expenses, including tuition, and living expenses sponsored by Govt. of India.*

## **SPECIAL HONORS**

- 2022 Invited academic visit (July '22), Indian Institute of Management, Indore
- 2021 Invited to join the Editorial Panel (Associate Editor) of the *Journal of the Royal Statistical Society – Series C*, for a 4-year term, starting Jan 1, 2022
- 2021 Invited to join the Scientific Advisory Board of *JDR Clinical & Translational Research* – a journal of the International Association for Dental Research (IADR), for a 3-year term, starting Jan 1, 2022
- 2020 **Elected Member**, International Statistical Institute

- 2020 Paper ([SMART](#) trials in oral health) selected as **high-impact finding** among recent NIDCR funded research from the NIDCR's *Center for Clinical Research*, and included in the *Director's Report* to the National Advisory Dental & Craniofacial Research Council: Jan '20
- 2020 **Fellow**, Royal Statistical Society
- 2019 Invited academic visit (Aug '19), Dept. of Math. & Statistics, Qatar University, Doha, Qatar
- 2019 Invited **plenary** talk, 2019 WASA [Workshop on Survival Analysis and Applications], Piracicaba, São Paulo, Brazil, Nov 27 – 29
- 2019 Invited by the American Statistical Association (ASA)'s Vice President to serve on the ASA Committee of Representatives (for Section Q, Education) to the **American Association for the Advancement of Science** (AAAS), for a period of 4 years.
- 2018 Invited by the ASA's Past President and Awards Council as the **Chair** of the 2019-2022 **E. C. Bryant Scholarship committee** for selecting an outstanding student working in survey statistics.
- 2018 PI'd NIH Grant # R03DE023372 titled "Exploring tooth survival using Bayesian spatial models" selected by the NIH/NIDCR [National Institute of Dental and Craniofacial Research] as an **exemplary proposal** for *productivity, student involvement, and products available through professional website*.
- 2018 Elected **Fellow**, American Statistical Association; citation reads:  
*"For innovative statistical applications to high impact problems in oral epidemiology and public health; for excellent research contributions to survival analysis, correlated data, spatial epidemiology, and robust regression; for extensive biomedical collaborations; and for exemplary service to the profession".*
- 2018 Invited academic visit (Jan '18), Duke-NUS (National University of Singapore) Medical School, Singapore
- 2017 Invited by the IBS-ENAR President to serve in the ENAR Distinguished Student Awards Committee for a 3-year term
- 2016 Showcase, NIH/NIDCR's **Annual New Investigator profile** publication.  
 The NIDCR is the oral health research wing of the US National Institutes of Health
- 2016 **Program Chair**, ASA Biometrics Section, 2016 Joint Statistical Meetings [JSM], Chicago
- 2016 Showcase, Spring newsletters of the [IISA](#), and the Dept. of Statistics, [UGA](#)
- 2015 Invited to join the *Editorial Board* of **JASA-A&CS** [Journal of the American Statistical Association, Application & Case Studies Section] as an Associate Editor. *JASA is considered among the top journals in statistics, and the flagship journal of the American Statistical Association*
- 2015 Invited to organize and chair a *showcase session* for *Journal of Agricultural, Biological and Environmental Statistics* (JABES) — an ASA & IBS journal, by the JABES editor, at the 2015

Joint Statistical Meetings, Seattle, Washington, Aug 8-13

- 2015 **Program Chair-Elect**, *ASA Biometrics Section*, 2015 JSM, Seattle
- 2013 Co-mentored PhD student Dr. Laura Boehm Vock (NC State University), who won the prestigious **John van Ryzin** award at the 2013 ENAR/IBS Spring Meeting. More details on the *van Ryzin* award appear [here](#)
- 2013 Elected Member, *Task Force on Design & Analysis* in Oral Health Research
- 2013 Invited by the ENAR president to serve as the ENAR correspondent to the 2013 **International Year of Statistics** celebration
- 2012 Appointed by the US Under-Secretary for Health as Member of the Rehabilitation Research and Development (RR&D) Service Scientific Merit Review Board, Dept. of Veteran Affairs (VA), Washington DC.
- 2012 Invited to serve on the ASA committee on Award of Outstanding Statistical Applications Jan 1, 2013 – Dec 31, 2015
- 2012 Invited academic visit (Nov '12) Missouri University of Science and Technology, Rolla, MO
- 2012 Invited academic visit (Nov '12), Universidad de Concepción, Concepción, Chile
- 2011 CDC/ORISE **Fellow** for Research in Oral Health
- 2010 Nominated for 2010 MUSC Foundation Developing Faculty Award
- 2009 Invited academic visit, Biostatistics Center, Catholic University of Leuven, Belgium, November
- 2009 Invited academic visit, Erasmus University Medical Center, Rotterdam, The Netherlands
- 2009 Elected **President** of the South Carolina Chapter of the ASA
- 2006 ASA Stat Bowl **Team Champion** at JSM Seattle; received commemorative plaque
- 2005 Univ. of Georgia Graduate **Dissertation Completion Fellowship**
- 2005 Honorable mention, Student Paper Award, 2005 SCMA, Auburn, AL
- 2005 ASA Stat Bowl **Runner Up** (Individual Championship) at JSM, Minneapolis; received commemorative plaque

2001 Passed National Eligibility Test in Math. Sciences, conducted by UGC-CSIR, Govt. of India  
*This test qualifies one to enroll in the Ph.D. curriculum at a university registered under the Central, or State Govt. in India, and considered a pathway towards developing an academic career in India*

## **TRAVEL AWARDS**

2016 Travel award, FACM Conference, NJIT, Newark, NJ

2012 World Meeting of ISBA [International Society for Bayesian Analysis] Early Career Researcher  
Travel grant, Kyoto, Japan

2010 Junior Researcher Travel award, UFL Winter Workshop, Gainesville, FL

2008 Travel award to Bayesian Biostatistics Conference, MDACC, Houston, TX

2008 NIH Travel award, 2008 ENAR Junior Researchers Workshop, Arlington, VA

2007 Travel award, DAE Meeting, University of Memphis, TN

2007 Travel award, 9<sup>th</sup> Bayes Workshop, Carnegie Mellon University, Pittsburgh, PA

2007 NSF Travel award, AISC Meeting, Univ. of North Carolina, Greensboro, NC

2007 Travel Award, 32<sup>nd</sup> Spring Lecture Series on Spatial Statistics, University of Arkansas, Fayetteville, AR

2006 UGA Franklin College Mini-Grant/Travel award, ENAR Meeting, Tampa, FL

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

## **MEMBERSHIP IN SCIENTIFIC OR PROFESSIONAL SOCIETIES**

- International Indian Statistical Association [Life Member]
- Member & Council of Chapters Representative, *American Statistical Association, Virginia Chapter* [2017 —]
- Statistics Section, *Virginia Academy of Sciences* [2015 — 2017]

- Elected Member, Council of Sections Representative for the *Biometrics Section* of the ASA [2018 — 2020]
- Member, American Association for the Advancement of Sciences, Sections *U* (Statistics), *R* (Dentistry & Oral Health Sciences) and *Q* (Education) [2019 —]
- Member (elected), International Statistical Institute [2020 —]
- International Society for Bayesian Analysis [2012 — 2015]
- International Biometric Society (IBS), Finance Committee [2010 — 2017]
- Regional Advisory Board, East and North American Region of the IBS [2009 — 2011]
- American Statistical Association, South Carolina Chapter [President, 2009 — 2011; Council of Chapter Representative, 2008 — 2009]
- American Statistical Association [2005 — Present]
- Institute of Mathematical Statistics [2005 — 2012]

## **SCIENTIFIC AND SCHOLARLY ACTIVITIES**

### EXPERT SERVICES

#### *Editorial Board Positions*

##### Scientific Advisory Board

- *Journal of Dental Research – Clinical and Translation Research* [2022 — 2025]

##### Associate Editor [current]

- *Journal of the Royal Statistical Society – Series C* [2022 — 2025]
- *Bayesian Analysis* [2020 — 2024]
- *Biometrics* [2021 — 2023]
- *Statistics in Medicine* [2018 — Present]
- *Spatial and Spatio-temporal Epidemiology* [2011 — Present]
- *Sankhya – Series B* [2016 — Present]

### Associate Editor [past]

- *Journal of the American Statistical Association, Application & Case Studies* [2016 — 2021]
- *The Journal of Applied Probability and Statistics (JAPS)*, [2011 — 2016]
- *Journal of Dental, Oral and Craniofacial Epidemiology (JDOCE)*, [2013 — 2015]
- *Journal of Agricultural, Biological and Environmental Statistics (JABES)*, [2011 — 2015]

### Statistical Advisory Board Member/Reviewer for

- *PLOS One* [2019 — Present]
- *Journal of Periodontology / Clinical Advances in Periodontics* [2020 — Present]

### ***Grant Reviews/Study Section Memberships***

- 2022: Ad hoc Reviewer, NIH/NIDCR *Special Grants Review Committee* (DSR) Study Section to review F (Fellowship), K (Training), and new investigator R03 proposals
- 2022: Ad hoc Reviewer, NIH/NIDCR *Clinical Studies* (U01, UG3/UH3) Study Section
- 2021: Ad hoc Reviewer, *Clinical and Translation Research Funding Program*, Washington University in St. Louis
- 2021: Ad hoc Reviewer, NIH/NCATS *Special Emphasis Panel* to review U54 proposals
- 2021: Ad hoc Reviewer, NIH/NIDCR *Oral, Dental & Craniofacial Sciences* (ODCS) Study Section
- 2020: Ad hoc Reviewer, NIH/NIDCR DSR Study Section for F (Fellowship), K (Training), and new investigator R03 proposals
- 2019: Ad hoc Reviewer (June & October), NIH *Biostatistical Methods and Research Design* (BMRD) Study Section
- 2016/'19/'20: Ad hoc Reviewer, Statistical grants for *FONDECYT* (Fondo Nacional de Desarrollo Científico y Tecnológico) – the principal public funding entity of the Govt. of Chile
- 2019: Ad hoc Reviewer, *Veni Grants*, Netherlands Organization for Scientific Research (NWO)



- 2019: Ad hoc Reviewer, NIH Special Emphasis Panel meeting on *Biomedical Computing and Health Informatics* (ZRG1 HDM W04)
- 2018: VCU Internal Reviewer of Letter of Intent, NSF's Research Traineeship Program (NRT)
- 2017: Ad hoc Reviewer, NIH PAR Panel on *Methodology and Measurement in the Behavioral and Social Sciences*
- 2016: Ad hoc Reviewer, Statistical Grants for *Riksbankens Jubileumsfond* – The Swedish Foundation for Humanities and Social Sciences, Stockholm, Sweden. RJ is Sweden's leading grant-giving organization in humanities and social sciences
- 2015: Ad hoc reviewer, NIH/NIEHS P50 initiatives to establish *Centers for Children's Environmental Health and Disease Prevention Research*
- 2015: Ad hoc reviewer, NIH/NIDCR Special Emphasis panel for *UH2 grant applications on Health Disparities*
- 2015: Ad hoc reviewer, National Security Agency [NSA] Mathematical Science Grant Program
- 2014: Ad hoc reviewer, Statistical Grants for *Medical Research Council of UK*
- 2014: Ad hoc reviewer, NIH/NIDCR ODCS Study Section
- 2013, 2015, 2017: Ad hoc reviewer, *AAAS Research Competitiveness Service proposals for funding through KACST* [King Abdulaziz City for Science and Technology], Riyadh, Saudi Arabia
- 2012: Ad hoc reviewer, *National Research Council, Govt. of Romania*
- 2012, 2013: Reviewer, *VA Rehabilitation Research and Development Service Merit Review Meetings*
- 2011, 2012, 2013: Ad hoc reviewer, NIH/NIDCR *Special Emphasis Panel* Scientific Review Group
- 2011: Ad hoc reviewer, *Natural Sciences and Engineering Research Council, Canada*
- 2011: Ad hoc reviewer, MUSC *Center for Oral Health Research* pilot project reviews

### ***Journal Refereeing, Book Proposal Reviewing, Consulting***

Reviewer 2013-Present, *American Statistician*

Reviewer 2012-Present, *Arabian Journal of Mathematics*

Reviewer 2013-Present, *Biometrics*  
Reviewer 2013-Present, *Biometrical Journal*  
Reviewer 2019-Present, *Cancer Reports*  
Reviewer 2015-Present, *Caries Research*  
Reviewer 2011-Present, *Computational Statistics*  
Reviewer 2011-Present, *Computational Statistics and Data Analysis*  
Reviewer 2011-Present, *Journal of Agricultural, Biological and Environmental Statistics*  
Reviewer 2011-Present, *Communications in Statistics – Theory and Methods*  
Reviewer 2011-Present, *Columbian Journal of Statistics*  
Reviewer 2010-Present, *Eye Journal – The Scientific Journal of the Royal College of Ophthalmologists*  
Reviewer 2010-Present, *Electronic Journal of Statistics*  
Reviewer 2010-Present, *International Statistical Review*  
Reviewer 2016-Present, *International Journal of Health Geographics*  
Reviewer 2009-Present, *Journal of Statistics and Applications*  
Reviewer 2009-Present, *Journal of Statistical Computation and Simulation*  
Reviewer 2009-Present, *Journal of Dental Research*  
Reviewer 2016-Present, *Journal of Dental Research – Clinical and Translation Research*  
Reviewer 2010-Present, *Journal of Periodontology*  
Reviewer 2009-Present, *Journal of the Royal Statistical Society – Series B*  
Reviewer 2009-Present, *Journal of the Royal Statistical Society – Series C*  
Reviewer 2009-Present, *Journal of the American Statistical Association – T&M, A&CS*  
Reviewer 2009-Present, *Journal of King Saud University*  
Reviewer 2008-Present, *Journal of Applied Probability and Statistics*  
Reviewer 2008-Present, *Journal of Applied Statistics*  
Reviewer 2008-Present, *Journal of Multivariate Analysis*  
Reviewer 2008-Present, *Journal of Traumatic Stress*  
Reviewer 2008-Present, *Journal of the American Academy of Dermatology*  
Reviewer 2008-Present, *Journal of Neuroscience Methods*  
Reviewer 2008-Present, *Lifetime Data Analysis*  
Reviewer 2008-Present, *Mathematical Biosciences*  
Reviewer 2016-Present, *PloS One*  
Reviewer 2008-Present, *Sankhya – Series B*  
Reviewer 2008-Present, *Scandinavian Journal of Statistics*  
Reviewer 2008-Present, *Spatial Statistics*  
Reviewer 2008-Present, *Statistics and Probability Letters*  
Reviewer 2008-Present, *Spatial and Spatio-temporal Epidemiology*  
Reviewer 2008-Present, *Statistics in Medicine*  
Reviewer 2007-Present, *Statistical Papers*  
Reviewer 2007-Present, *Sociological Methodology*  
Reviewer 2007-Present, *Statistical Methods in Medical Research*  
Reviewer 2015-Present, *Spine Deformity*  
Reviewer 2014-Present, *STAT*  
Reviewer 2007-Present, *TEST*  
Reviewer 2007-Present, *WIRE Computational Statistics*  
Reviewer 2018-Present, *Journal of the National Cancer Institute*  
Reviewer 2021-Present, *JAMA Oncology*

Book Proposal Reviewer for

- Wiley
- Prentice-Hall
- Kuiper-Collins
- CRC Press
- Radcliffe Publishing
- Springer

#### Book Reviewer in Statistical Journals

- *Technometrics*
- *Journal of Agricultural, Biological and Environmental Statistics*
- *Journal of the American Statistical Association*
- *Journal of Statistical Software*

#### Biostatistical Consultant for

- HealthPartners, Bloomington, MN
- Centers for Disease Control and Prevention (CDC), Atlanta, GA
- ChRi Laboratories, St. Paul, MN
- Bioelectrics LLC, Cleveland, OH
- US Dept. of Veteran Affairs

#### GRANTS AND CONTRACTS:

[Grant #'s where I am the PI, Co-PI, or PI of a Core (within a Program Project) are **bolded**]

NIH Reporter link: <https://reporter.nih.gov/search/45KuIZCuBEGQVITWLPX6UQ/projects>

#### ACTIVE

##### **R01DE031134** [PI: Bandyopadhyay/Pati]

NIH/NIDCR

Dates: 09/01/2022 – 08/31/2026

Title: *Sex/Gender influences on periodontal disease and diabetes: A population science approach, with software*

Role: **Principal Investigator** (Contact PI)

Percent Effort: 23%

Total cost ~ 2.06M

##### **R21DE031879** [PI: Bandyopadhyay]

NIH/NIDCR

Dates: 09/01/2022 – 08/31/2024

Title: *A pragmatic risk index evaluating the elderly with comorbidity for oral health event times*

Role: **Principal Investigator**

Percent Effort: 14.5%

Total cost: ~ \$446k

##### **P20CA252717** SPORE [PI: Winn/Seewaldt/Hughes-Halbert]

NIH/NCI

Dates: 09/20/2021 – 08/31/2024

Title: *Translation ReseArch CEnter in Lung CanceR Disparities* (TRACER)

Role: **Core-leader/PI, Biostatistics & Informatics Core**; project has 3-sites: VCU, University of Southern California, and City of Hope Comprehensive Cancer Center

Percent Effort: 10%

Total cost: ~ 2.9M

**4-VA Collaborative Grants**, Commonwealth of Virginia [Co-PI: Bandyopadhyay/Tong]

Dates: 07/01/2022 – 06/30/2023

Title: *Longitudinal structural equation modeling for incomplete proportion data in obesity research*

Role: **Co-Principal Investigator** (Collaboration between VCU and Univ. of Virginia)

Percent Effort: 0% (funding only for PhD student support); [Total award: \$26,000]

**P30CA016059** Cancer Center Support Grant, VCU Massey Cancer Center [PI: Winn]

NIH/NCI

Dates: 07/01/2016 – 05/01/2023

Title: *Biostatistics Shared Resources (BSR), Massey Cancer*

Role: **Director of BSR (2016 – 2021)**

**Sr. Advisor, Data & Cancer Modeling** (2022 –) & Co-I

Percent Effort: 20%

P20CA264067 SPORE [PI: Winn/Sheppard/Faison/Roberts]

NIH/NCI

Dates: 07/01/2021 – 06/30/2025

Title: *VSU MCC PartnErship for CancEr Disparities Research and Training* (SUCCEED)

Role: Co-I; project has 2-sites: VCU and Virginia State University

Percent Effort: 3%

R01CA266981 [PI: Guizhi (Julian) Zhu]

NIH/NCI

Dates: 08/01/2022 – 06/30/2027

Title: *Lymph node-targeted codelivery of albumin-binding peptide antigens and di-adjuvant for melanoma combination immunotherapy*

Role: Co-Investigator

Percent Effort: 3%

R01CA239706 [PI: Gewirtz/Harada/Landry]

NIH/NCI

Title: *Use of senolytics to enhance chemotherapeutic efficacy in lung cancer*

Dates: 04/01/2019 – 03/31/2024

Role: Co-Investigator

Percent Effort: 2%

W81XWH-19-1-0490 [PI: David Gewirtz]

US Dept. of Defense (DoD)

Dates: 09/01/2019 – 08/31/2022

Title: *Enhancement of Breast Tumor Cell Immunogenicity as a Strategy for Chemosensitization*

Role: Co-Investigator

Percent Effort: 2%

R01CA260819 [PI: Gewirtz/Harada/Landry]

NIH/NCI

Dates: 12/01/2020 – 11/30/2025

Title: *A sequential therapeutic strategy of senescence induction and senolytics for elimination of surviving residual breast cancer cells*

Role: Co-Investigator

Percent Effort: 3.6%

Tomorrow's Research Fund #636214 [PI: Wendy Bottinor]

St. Baldrick's Foundation

Dates: 07/01/2019 – 06/30/2023

Title: *Myocardial Strain During Cancer Treatment in Childhood Cancer Survivors*

Role: Co-Investigator

Percent Effort: 7.15%

Massey/Pauley Heart Pilot Program project [PI: Suraj Dahal]

Dates: 03/01/2022 – 07/01/2023

Title: *Cardiac Computed Tomography to Study Subclinical Atherosclerosis in Women with Breast Cancer (CT-SAB Study)*

Role: Co-investigator

Percent Effort: 0% [Total award: \$50,000]

#### PENDING/SUBMITTED

**R03DE032815** [PI: Bandyopadhyay]

NIH/NIDCR

Dates: 04/01/2023 – 03/31/2025

Title: *Pragmatic cross-sectional assessment of spatially-referenced dental caries outcomes from nationwide complex surveys*

Role: **Principal Investigator**

Percent Effort: 16% [Received R1 score = 36; Under Revision]

**P50** SPORE [PI: Strayer/Hebert/Ford]

NIH/NCI

Dates: 9/01/2022 – 8/31/2027

Title: *Southeast SPORE in Racial Disparities*

Role: **Core-leader/PI (Biostatistics, Bioinformatics and Data Management Core)**; project has 3-sites: VCU, Medical University of South Carolina, and University of South Carolina

Percent Effort: 15%

US Dept. of Defense (DoD) Grant [PI: David Gewirtz]

Dates: 04/01/2022 – 03/01/2025

Title: *A senolytic based strategy for interfering with the development of castration resistance in prostate*

Role: Co-Investigator

Percent Effort: 5%

R01 [PI: Paul Fisher]

NIH/NCI

Dates: 07/01/2022 – 06/30/2027

Title: *Cell Competition Network Downstream of WTP53 in the Tumor Microenvironment of Breast Cancer*

Role: Co-Investigator

Percent Effort: 3%

R21 [PI: Joseph Landry]

NIH/NCI

Dates: 07/01/2022 – 06/30/2024

Title: *Studies on Epigenetic Regulators of the Recovery from Therapy Induced Proliferative Arrest*

Role: Co-Investigator

Percent Effort: 1%

R01 [PI: Jiong Li]

NIH/NIDCR

Dates: 07/01/2022 – 06/30/2027

Title: *FOSL1-Super-Enhancers Define Cisplatin Enriched Cancer Stem Cells in HNSCC*

Role: Co-Investigator

Percent Effort: 2%

R01 [PI: Guizhi (Julian) Zhu]

NIH/NCI

Dates: 07/01/2022 – 06/30/2027

Title: *Nanoparticle delivery of multivalent small circular mRNA vaccines for melanoma immunotherapy*

Role: Co-Investigator

Percent Effort: 3%

R01 [PI: Md. Imad Damaj]

NIH/NCI

Dates: 07/01/2022 – 06/30/2027

Title: *Translational Genomics to Identify Predictors of Aromatase Inhibitor-induced Musculoskeletal Disorders*

Role: Co-Investigator

Percent Effort: 5%

## PAST

R03 [PI: Aderonke Akinkugbe]

NIH/NIDCR

Dates: 04/01/2019 – 03/31/2022

Title: *Are prenatal smoking and pregnancy BMI risk factors for caries experience in the offspring?*

Role: Co-Investigator

Percent Effort: 0% [NCE phase]

Career Development Award #19CDA34760181 [PI: Wendy Bottinor]

American Heart Association

Dates: 04/01/2019 – 03/31/2022

Title: *Early Detection of Cardiovascular Disease in Childhood Cancer Survivors*

Role: Co-I

Percent Effort: 3.45%

R21 [PI: Joseph Landry]

NIH/NCI

Dates: 01/01/2020 – 12/31/2021

Title: *Enhancing Breast Tumor Cell Immunogenicity by Targeting the Epigenetic Factor NURF*

Role: Co-I

Percent Effort: 2%

American Cancer Society [PI: Michael Preston]

Dates: 07/01/2020 – 06/30/2021

Title: *Uptake of an NCI Research Tested Intervention Program to Increase Colorectal Cancer Screening in a Rural Clinical Setting*

Role: Co-PI

Percent Effort: 2.4%

R01CA205607 [PI: Steve Grant]

NIH/NCI

Dates: 04/01/2016 – 03/31/2021

Title: *Targeting Multiple Myeloma with SMAC mimetics and HDAC Inhibitors*

Role: Co-investigator

Percent Effort: 4.78%

R01 [PI: Shumei Sun]

NIH/NIA

Title: *Juvenile protective factors and their effects on aging*

Dates: 10/01/2019 – 12/31/2020

Role: Co-I

Percent Effort: 20%

US Dept. of Defense (Breast Cancer Call) [PI: Xianjun Fang]

Dates: 08/15/2017 – 09/30/2020

Title: *Carnitine Palmitoyltransferase 1A in Breast Cancer*

Role: Co-I

Percent Effort: 5%

**R01DE024984** [PI: Dipankar Bandyopadhyay/Brian Reich]

NIH/NIDCR

Dates: 10/01/2015 – 07/31/2020

Title: *Spatiotemporal models for periodontal disease monitoring and recall frequencies*

Role: Co-Principal Investigator (NIH Contact PI)

Percent Effort: 30%

**R01DE024984** Supplement [PI: Dipankar Bandyopadhyay]

NIH/NIDCR

Dates: 09/25/2017 – 07/31/2019

Title: *Spatiotemporal models for periodontal disease monitoring and recall frequencies: Assessing gender differences*

Role: Principal Investigator

Percent Effort: 20%

Ovarian Cancer Research program [PI: Steve Grossman]

US Department of Defense

Dates: 5/1/2018 – 4/30/2020

Title: *Role of C-terminal Binding Protein as Oncogene and Therapeutic Target in Epithelial Ovarian Cancer*

Role: Co-I

Percent Effort: 1.9%

R6508-18 [PI: Steve Grant]

Leukemia and Lymphoma Society

Dates: 10/01/18 – 09/30/20

Title: *NAE and HDAC Inhibition in refractory AML and MDS*

Role: Co-I

Percent Effort: 2% [terminated 05/15/2020, due to COVID-19 related financial issues]

R01 [PI: Esra S. Sahingur]

NIH/NIDCR

Dates: 10/01/2018 – 06/30/2023

Title: *Endogenous regulators of inflammation in periodontal tissue homeostasis*

Role: Co-I

Percent effort: 5% [concluded on 06/30/2019 after the PI left VCU]

Massey Cancer Center Multi-Investigator Award Program [Co-PI: Masoud Manjili/Arun Sanyal]

Dates: 05/01/2018 – 04/30/2019

Title: *Immune modulation of NAFLD/NASH for the prevention of HCC*

Role: Co-I, providing some biostatistical assistance

Percent Effort: 0% [awarded \$ dedicated entirely to fund a predoctoral student, lab, etc]

4-VA Funding Mechanism from the Commonwealth of Virginia [Co-PI: Bandyopadhyay/Wu]

Dates: 01/16/2018 – 01/15/2019

Title: *Statistical Methods to unveil the Genetic Architecture of Dental Caries*

Role: Co-PI

Percent Effort: 2.9% [majority of research \$ dedicated to fund 2 graduate students at VA Tech]

1UH2TR001373-01 [PI: Steven Grant]

NIH/NCATS

Title: *Wee1 and HDAC inhibition in relapsed/refractory AML*

Dates: 6/1/2017 to 5/31/2018

Role: Co-Investigator

Percent Effort: 2.04%

**DMS – 1821785** [Co-PIs: Somnath Datta/Dipankar Bandyopadhyay/Sanjib Basu]

NSF

Dates: 05/17/2018 – 05/20/2018

Title: *IISA 2018: From Data to Knowledge, Working for a Better World*

Role: Co-PI

Direct cost: \$20,000



**R03DE023372** [PI: Dipankar Bandyopadhyay]

NIH/NIDCR

Dates: 04/01/2014 – 02/28/2017

Title: *Exploring tooth survival using Bayesian spatial models*

Role: Co-Principal Investigator (NIH Contact PI)

Percent Effort: 25%

Michael J. Fox Foundation [Co-PI: Leslie Cloud/Kathryn Holloway]

Dates: 07/01/2016 – 03/31/2017

Title: *Deep brain stimulation of the nucleus basalis of Meynert for cognitive decline in Parkinson's disease dementia*

Role: Co-Investigator

Percent Effort: 10%

K23DE023572 [PI: Samir Khariwala]

NIH/NIDCR

Dates: 04/01/2014 – 03/31/2015

Title: *Tobacco carcinogens as markers of exposure, carcinogenesis and risk in oral cancer*

Role: Co-investigator

Percent Effort: 0%

R01CA198971 [PI: Mark Pereira]

NIH/NCI

Dates: 07/01/2015 – 06/30/2019

Title: *Reduced Intensity Myeloablative Total Body Irradiation and Thymoglobulin Followed by Allogeneic Peripheral Blood Stem Cell Transplantation*

Role: Co-Investigator

Percent Effort: 5% (Years 1-2), 10% (Years 3-4); [Concluded on 08/15/2015 due to change of institution.]

6136-14 [PI: Mukta Arora]

The Leukemia and Lymphoma Society

Dates: 10/01/2013 – 09/30/2016

Title: *Biomarkers of Frailty and Its Impact on Geriatric HSCT Outcomes*

Role: Co-Investigator

Percent Effort: 6% [Concluded on 08/14/2015 due to change of institution]

R01CA184987 [PI: Lisa Peterson]

NIH/NCI

Dates: 04/01/2014 – 03/31/2019

Title: *Interactions between tobacco smoke constituents in rodents*

Role: Co-Investigator

Percent Effort: 6% (Years 1-2), 10% (Years 3-5) [Concluded on 08/14/2015 due to change of institution]

**R03AA20648** [PI: Dipankar Bandyopadhyay]

NIH/NIAAA

Title: *Robust transition models for the analysis of longitudinal drinking outcomes*

Dates: 09/10/2011 – 07/31/2014

Role: Co-Principal Investigator

Percent Effort: 10%

P30CA077598 [PI: Douglas Yee]

NIH/NCI

Title: *Cancer Center Support Grant of the University of Minnesota Masonic Cancer Center*

Dates: 07/01/2012 – 06/30/2014

Role: Co-Investigator/Member, Biostatistics Shared Resources

Percent Effort: 10%

**R03DE021762** [PI: Dipankar Bandyopadhyay]

NIH/NIDCR

Title: *Robust spatial models for clustered periodontal data*

Dates: 08/01/2011 – 03/31/2014

Role: Co-Principal Investigator (NIH Contact PI)

Percent Effort: 40%

**Research Fellow in Oral Health** [PI: Dipankar Bandyopadhyay]

CDC/ORISE

Title: *Statistical models for spatial binary data derived from NHANES surveys*

Dates: 11/15/2011 – 12/31/2013

Role: Principal Investigator

Direct costs: \$17,612 (total)

Percent Effort: 13.43%

**R03DE020114** [PI: Dipankar Bandyopadhyay]

NIH/NIDCR

Title: *Robust nonparametric methods with variable selection for clustered dental data*

Dates: 08/01/2011 – 07/31/2013

Role: Co-Principal Investigator (NIH Contact PI)

Percent Effort: 25%

**Travel support grant** [PI: Dipankar Bandyopadhyay/Elizabeth Slate]

American Statistical Association

Title: *Travel support, 2008 Southern Regional Council on Statistics Summer Research Conference titled: "Modern Semiparametric Methods in Action" at Charleston, SC.*

Dates: June/July 2008

Role: Co-Principal Investigator

Direct costs: \$6,500

**Travel support grant** [PI: Dipankar Bandyopadhyay/Elizabeth Slate]

South Carolina EPSCoR/IDeA Funding mechanism

Title: *Travel support, 2008 Southern Regional Council on Statistics Summer Research Conference titled: "Modern Semiparametric Methods in Action" at Charleston, SC.*

Dates: June/July 2008

Role: Co-Principal Investigator

Direct costs: \$10,000

P20RR017696 [PI: Keith Kirkwood, Elizabeth Slate (Biostatistics Core)]

NIH/NCRR

Title: *South Carolina COBRE for Oral Health Research*

Dates: 06/01/2006 – 07/30/2011

Role: Co-Investigator

Direct costs: \$269,776 (total)

Percent Effort: 50%

UG1DA013727 [PI: Kathleen Brady]

NIH/NIDA

Title: *Southern Consortium Node of the Clinical Trials Network (CTN)*

Dates: 09/01/09 – 02/28/2011

Role: Co-Investigator

Direct costs: \$895,473 (FY)

Percent Effort: 30%

MUSC Division of Biostatistics Collaborative Unit Fund [PI: Paul Nietert]

Title: *Investigating disparity in Type-2 diabetes*

Dates: 01/01/2010 – 06/30/2011

Role: Co-Investigator

Direct costs: \$15,000

Percent Effort: 15%

K12HD055885 [PI: Kathleen Brady]

NIH/NICHHD

Title: *Building Interdisciplinary Research Careers in Women's Health*

Dates: 02/10/2010 – 08/01/2010

Role: Co-Investigator

Percent Effort: 10%

R21DE018775 [PI: Hon Yuen]

NIH/NIDCR

Title: *Oral Home Telecare with Tetraplegics*

Dates: 07/01/2009 – 05/30/2010

Role: Co-Investigator

Percent Effort: 10%

2006-WG-BX-0002 [Co-PI: Elizabeth Letourneau/Jill Levenson]

National Institute of Justice

Title: *Evaluating the Effectiveness of Sex Offender Registration and Notification Policies for Reducing Sexual Violence against Women*

Dates: 09/01/2006 – 07/31/2009

Role: Co-Investigator

Percent Effort: 8.5%

R49-000-567 [PI: Elizabeth Letourneau]

Centers for Disease Control and Prevention

Title: *Preventing Sexual Violence: Does Sex Offender Registration and Notification work?*

Dates: 09/01/2006 – 08/31/2009

Role: Co-Investigator

Percent Effort: 25.5%

F31DE022246 [PI: Anthony Parker]

NIH/NIDCR

Title: *Estimation of Periodontal Disease Progression in the Presence of Diagnostic Error*

Dates: 07/01/2011 – 06/30/2012

Role: Co-Investigator/Mentor

Percent Effort: 0%

### Massey IIT Protocols (Serving as a IIT biostatistician)

Protocol #	Title	Principal Investigator	Involved since
MCC-12-07328	A Phase I Study of Neoadjuvant Chemotherapy, Followed by Concurrent Chemoradiation with Gemcitabine, Sorafenib and Vorinostat in Pancreatic Cancer	Poklepovic, Andrew S	5/13/2016
MCC-12122	A Phase I Study of Sorafenib and Vorinostat in Advanced Hepatocellular Carcinoma	Poklepovic, Andrew S	5/19/2016
MCC-13-09812	Phase I Study of Regorafenib and Sildenafil for Advanced Solid Tumors	Poklepovic, Andrew S	5/13/2016
MCC-13-09950	Phase I Trial of Dimethyl Fumarate, Temozolomide, and Radiation Therapy in Glioblastoma Multiforme	Malkin, Mark G	5/13/2016
MCC-14-10774	Phase 1 Study of the Pan-DAC Inhibitor AR-42 and Pazopanib in Advanced Soft Tissue Sarcoma and Renal Cell Carcinoma	Poklepovic, Andrew S	5/19/2016 – 3/4/2019
MCC-14-10790	Phase 2 Study of Pemetrexed and Sorafenib for Treatment of Recurrent or Metastatic Triple Negative Breast Cancer	Poklepovic, Andrew S	5/19/2016
MCC-14-10921	Change in Vaginal Length and Sexual Function in Women Who Undergo Surgery ± Radiation Therapy for Endometrial Cancer	Fields, Emma C	5/13/2016
MCC-14816	Phase II Study of Sorafenib, Valproic Acid, and Sildenafil in the Treatment of Recurrent High Grade Glioma	Malkin, Mark G	5/13/2016
MCC-15-11160	Phase I/Ib Study of idelalisib in combination with Bendamustine and Rituximab for patients with untreated low-grade non-Hodgkin lymphoma (NHL) and mantle cell lymphoma (MCL)	Yazbeck, Victor Y	5/13/2016
MCC-15-11995	Molecular Characterization of Lung Tumors	Deb, Sumitra	2/27/2017
MCC-18-12239	Phase 1/1b Study of Venetoclax and TL1216 in Relapsed/Refractory Multiple Myeloma	Simmons, Gary L.	10/1/2018
MCC-18-13982	A Comprehensive Assessment of Diabetes Self-Management Among Patients Treated at VCU Massey Cancer Center	Weiss, Elisabeth	1/8/2018
MCC-19-15600	Phase I Trial of Regorafenib, Sildenafil, and Neratinib in Advanced Cancer	Poklepovic, Andrew S	10/4/2019

MCC-20-16928	Uptake of an NCI Research Tested Intervention Program to Increase Colorectal Cancer Screening in a Rural Clinical Setting	Preston, Michael	7/8/2020
MCC-20-17559	Cardiovascular Disease in Childhood Cancer Survivors	Bottinor, Wendy	11/25/2020
MCC-21-18366	Creating a Pathway for Disease-Free Cancer Survivors to Decrease Long-term Opioid Use	Hong, Susan	7/2/2021
MCC-21-18830	Treating Heart Dysfunction Related to Cancer Therapy with Sacubitril/Valsartan (Treat HF)	Bottinor, Wendy	10/20/2020
NCI-10246	A Phase 1 Study of MLN4924 (Pevonedistat) and Belinostat in Relapsed/Refractory Acute Myeloid Leukemia or Myelodysplastic Syndrome	Maher, Keri	11/13/2018
NCI-9853	A Phase 1 Study of AZD1775 in Combination with Belinostat in Relapsed and Refractory Myeloid Malignancies and Selected Untreated Patients with Acute Myeloid Leukemia	Grant, Steven	5/13/2016

## MEDIA COVERAGE

1. **Front page coverage** in the “Post and Courier” newspaper (October 19th, 2010) published from Charleston, SC on my research in SC sex-offender registry database. Details at: [https://www.postandcourier.com/news/report-looks-at-sex-offender-registry/article\\_50f76fa8-98b9-5c54-844b-1893e69f5eba.html](https://www.postandcourier.com/news/report-looks-at-sex-offender-registry/article_50f76fa8-98b9-5c54-844b-1893e69f5eba.html)
2. Coverage of our studies on sex-offenders in the Portuguese online newspaper “Observador”, published late April, 2015. Details at: <http://observador.pt/especiais/distribuiram-papeis-avisar-era-pedofilo/>
3. Coverage on my research in precision dentistry at VCU Massey Cancer Center, published July 28, 2017. Details at: <http://massey.vcu.edu/about/blog/2017-archive/massey-biostatistician-develops-state-of-the-art-statistical-models-to-predict-oral-cancers-and-periodontal-diseases/>
4. Coverage on my ASA Fellowship by VCU, published April 27, 2018. Details at: [https://news.vcu.edu/article/Faculty\\_and\\_Staff\\_Features\\_for\\_April\\_2018](https://news.vcu.edu/article/Faculty_and_Staff_Features_for_April_2018)
5. Coverage on my Gertrude Cox Award from the Washington Statistical Society/RTI, published May 18, 2020. Details at: [https://news.vcu.edu/article/VCU\\_biostatistics\\_professor\\_recognized\\_for\\_accomplishments\\_in](https://news.vcu.edu/article/VCU_biostatistics_professor_recognized_for_accomplishments_in)
6. Coverage of the TRACER study at VCU Massey Cancer Center, published Sep 22, 2021. Details at: <https://www.masseycancercenter.org/news/Virginia-Gets-its-First-Specialized-Program-of-Research-Excellence>

## EXTRAMURAL PRESENTATIONS

### International [Invited]

1. Invited talk, 3<sup>rd</sup> International Conference on Applications of Mathematics to Non-linear Sciences, Pokhara, Nepal, May 25 – 28, 2023 [Upcoming]

2. Invited talk, 2022 International Indian Statistical Association (IISA) Annual Conference, Dec 26 – 30, 2022. Title: “A divide-and-conquer approach for non-Gaussian longitudinal data with irregular follow-up” [Unable to attend, due to logistical reasons]
3. Invited talk, Indian Institute of Management, Indore, July 7 2022. Title: “Periodontal Health: A Precision Medicine Perspective”
4. Invited short presentation, “Satellite event in memory of Professor Heleno Bolfarine”, as a part of The XVII da Escola Modelos de Regressão, sponsored by the Brazilian Statistics Association, and organized by the National School of Statistical Sciences (Rio de Janeiro), November 26, 2021. Title: “Heleno: A Legacy of Dedication and Kindness” [Virtual format]
5. Invited talk, 19<sup>th</sup> Conference of the ASMDA (Applied Stochastic Models and Data Analysis) International Society, Athens, Greece, June 1 – 4, 2021. Title: “A monotone single index model for missing-at-random longitudinal proportion data” [Virtual format]
6. Invited talk, 2020 CFE-CMStatistics, London, UK, December 19 – 21. Title: “A semiparametric mixture model for positive-definite matrices with applications to neuroimaging” [Virtual format]
7. Invited talk, 2019 International Indian Statistical Association (IISA) Conference, IIT Mumbai, Mumbai India, December 26 – 30, 2019. [Declined, due to logistical reasons]
8. Invited **plenary** talk, 2019 WASA [Workshop on Survival Analysis and Applications], Piracicaba, São Paulo, Brazil, Nov 27 – 29. Title: “Efficient estimation of mixture cure frailty models for clustered current status data”
9. Invited talk, 62<sup>nd</sup> ISI World Statistics Congress 2019 (ISI WSC 2019), Kuala Lumpur, Malaysia, August 18–23, 2019. Title: “Geostatistical modeling of positive definite matrices, with applications to diffusion tensor imaging”.
10. Invited talk, 10<sup>th</sup> Triennial International Calcutta Symposium in Probability and Statistics (celebrating the birth centenary of Prof. H. K. Nandi), University of Calcutta, Kolkata, India, December 27–30, 2018. [Declined, due to logistical reasons]
11. Invited talk, 28<sup>th</sup> Annual Conference of the International Environmetrics Society (TIES 2018), Guanajuato, Mexico, July 16 – 21, 2018 [Declined, due to logistical reasons]
12. Invited talk, Centre for Quantitative Medicine, Duke-NUS Medical School, Singapore, January 5, 2018. Title: “Bayesian Nonparametric Policy Search, with Applications to Periodontal Recall Intervals”.
13. Invited talk, International Indian Statistical Association (IISA) Conference, Hyderabad, India, December 26, 2017. Title: “Bayesian Nonparametric Policy Search, with Applications to Periodontal Recall Intervals”.
14. Invited talk, 61<sup>st</sup> World Statistics Congress of the International Statistical Institute, Marrakech, Morocco, July 16-21, 2017. Title: “Nonparametric Bayesian modeling for clustered ordinal periodontal data”.

15. Invited talk, International Conference on Analysis of Repeated Measures Data, organized by East-West University, Dhaka, Bangladesh, November 25-26, 2016 [Declined, due to logistical reasons]
16. Invited talk, Second International Conference on Theory and Applications of Statistics, Dhaka, Bangladesh, December 27-29, 2015. Title: "A marginal proportional-hazards model for clustered survival data".
17. Invited talk, 2015 International Indian Statistical Association (IISA) Meeting, Pune, India, December 20-24, 2015. Title: "A marginal proportional-hazards model for clustered survival data".
18. Invited **Plenary** talk, XIV School of Regression Models, at University of Campinas, Campinas, Sao Paulo, Brazil, March 2-5, 2015. Title: "Statistical models for spatial discrete data, with applications to dental caries".
19. Invited talk, IASSL-2014 [Statistics and Society in the new Information Age: Challenges and Opportunities], Colombo, Sri Lanka, December 28-30, 2014 [Unable to attend].
20. Invited talk, XXVII International Biometric Society (IBC) Conference, Florence, Italy, July 5-11, 2014. Title: "A two-stage model for spatial discrete data, with applications to dental caries".
21. Invited speaker, Division of Statistics, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, December 4, 2013. Title: "A marginal proportional-hazards model for clustered survival data".
22. Invited talk, 2013 WASA [Workshop on Survival Analysis and Applications], Campinas, São Paulo, Brazil, Nov 26-28, 2013. Title: "A marginal proportional-hazards model for clustered survival data".
23. Invited talk, 2013 Joint Statistical Meetings, Montreal, Canada, August 3-8, 2013. Title: "A two-stage model for spatial discrete data, with applications to dental caries".
24. Invited speaker, XIII School of Regression Models Annual Meeting, Maresias, São Sebastião – SP, Brazil, February 24-27, 2013. Title: "Exploring periodontal disease progression as a spatially-referenced phenomenon".
25. Invited speaker, ISBA Regional Meeting, Banaras Hindu University (BHU), Varanasi, India, January 6-10, 2012. Title: "Bridging conditional and marginal shapes for spatially-referenced binary data".
26. Invited Speaker, 8<sup>th</sup> International Triennial Calcutta Symposium on Probability and Statistics, Kolkata, India, December 27-30, 2012. Title: "Bridging conditional and marginal shapes for spatially-referenced binary data".
27. Invited speaker, Departamento de Estadística, Facultad de Ciencias Físicas y Matemáticas, Universidad de Concepción, Concepción, Chile, August 30, 2012. Title: "A latent factor model for spatial data with non-random missingness".
28. Invited talk, Dept. of Mathematics and Statistics, University of Windsor, Ontario, Canada, Oct 13, 2011. Title: "A latent factor model for spatial data with non-random missingness".

29. Invited talk, Department of Biostatistics, Catholic University of Leuven, Belgium, Nov 26, 2009. Title: "A two-part spatial model with excess zeroes, with applications to dental caries".
30. Invited talk, Department of Biostatistics, Erasmus University, Rotterdam, Netherlands, Nov 24, 2009. Title: "A latent factor model for spatial data with non-random missingness".

#### National [Invited]

1. Invited talk, 2023 International Chinese Statistical Association Applied Statistics Symposium, June 11-14 [Upcoming]
2. Invited colloquium, Dept. of Biostatistics, University of Florida School of Public Health, Gainesville, FL, January 27, 2023 [Upcoming]
3. Invited talk, 2022 International Chinese Statistical Association (ICSA) Applied Statistics Symposium, University of Florida, Gainesville, FL, June 21, 2022. Title: "A divide-and-conquer approach for non-Gaussian longitudinal data with irregular follow-up" [Presented by my PhD student Reuben Retnam]
4. Invited colloquium, Task Force on Design and Analysis in Oral Health Research, Newark, NJ, May 2-3, 2022. Title: "SMART Designs in Non-surgical Periodontal Therapy"
5. Invited talk, Dept. of Haematology & Oncology, University of Pittsburgh Hillman Cancer Center, Pittsburgh, PA, March 7, 2022. Title: "Time-to-events: A cancer biostatistician's perspective". [At location, virtual format]
6. Invited colloquium, Dept. of Periodontics, University of Iowa College of Dentistry & Dental Clinics, Iowa City, IA, July 16, 2021. Title: "Periodontal Health: A Precision Medicine Perspective" [Virtual format]
7. Invited colloquium, Dept. of Biostatistics, University of Pittsburgh School of Public Health, Pittsburgh, PA, October 15, 2020. Title: "Personalized Dynamic Treatment Regimes in Oral Health" [Virtual format]
8. Invited discussant, Topic-contributed session on Distinguished Student Papers, 2020 Joint Statistical Meeting, Philadelphia, PA, August 1-6 [Virtual format]
9. **Keynote Cox lecture**, Washington Statistical Society, Washington DC, July 15 2020. Title: "Personalized Dynamic Treatment Regimes in Oral Health – A Statistical Perspective" [Virtual format]
10. Invited talk (Session on Advances in Oral Health), 2020 WNAR/IMS/KISS/Jr Annual Meeting, Anchorage, AK, June 14-17. Title: "BAREB: A Bayesian repulsive biclustering Model for periodontal data" [Rescheduled, Summer 2021, but couldn't present due to logistical reasons]
11. Invited talk, 2020 Spring Meetings of the East and North American Region (ENAR) of the International Biometric Society (IBC), Nashville, TN, March 22-25. Title: "Geostatistical modeling of positive definite matrices, with an application to diffusion tensor imaging" [Virtual format]



12. Invited talk, 2019 Joint Statistical Meetings, Denver, Colorado, July 27 – Aug 1, 2019. Title: "Geostatistical modeling of positive definite matrices, with an application to diffusion tensor imaging"
13. Invited colloquium, Dept. of Statistics, University of Connecticut, Storrs, CT, April 24, 2019. Title: "Bayesian nonparametric policy search, with applications to periodontal recall intervals"
14. Invited talk, 2019 Spring Meetings of the East and North American Region (ENAR) of the International Biometric Society (IBC), Philadelphia, PA, March 24-27. Title: "A spatial Wishart process model in diffusion tensor imaging"
15. Invited Talk, 2018 IISA Summer Conference, Univ. of Florida, Gainesville, FL, May 17<sup>th</sup> – 20<sup>th</sup>, 2018. Title: "A spatial Wishart process model with applications to Diffusion Tensor Imaging"
16. Invited talk, Department of Statistics, Virginia Tech, Blacksburg, VA, October 19<sup>th</sup>, 2017. Title: "Nonparametric spatial models for clustered ordered data"
17. Invited talk, Department of Statistics, University of Virginia, Charlottesville, VA, April 21<sup>st</sup>, 2017. Title: "Nonparametric spatial models for clustered ordered data"
18. Invited talk, Department of Biostatistics, University of Texas School of Public Health, Houston, TX, April 18<sup>th</sup>, 2017. Title: "Nonparametric spatial models for clustered ordered data"
19. Invited talk, Environmental Statistics Lab, Dept. of Statistics, North Carolina State University, March 2<sup>nd</sup>, 2017. Title: "A two-stage model for dental caries assessment using non-Gaussian Markov random fields"
20. Invited talk, FACM 2016: Frontiers in Applied and Computational Mathematics, New Jersey Institute of Technology, Newark, NJ, June 3-4, 2016. Title: "A two-stage model for dental caries assessment using non-Gaussian Markov random fields"
21. Invited talk, School of Dentistry, University of Minnesota, Twin Cities Campus, December 15<sup>th</sup>, 2014. Title: "A marginal cure-rate model for spatial survival data"
22. Invited talk, Lightning Round, University of Minnesota U-Spatial Forum, November 19<sup>th</sup>, 2014. Title: "A marginal cure-rate model for spatial survival data"
23. Invited talk, Department of Statistics, Iowa State University, Ames, IA, October 27, 2014. Title: "A marginal cure-rate model for spatial survival data"
24. Invited talk, Task Force on Design and Analysis in Oral Health Research, Newark NJ, May 5-6, 2014. Title: "A marginal cure-rate model for spatial survival data"
25. Invited speaker, Division of Biostatistics, Medical College of Wisconsin, Milwaukee, WI, December 11, 2012. Title: "Exploring periodontal disease progression as a spatially-referenced phenomenon"

26. Invited speaker, Department of Mathematics and Statistics, Missouri University of Science and Technology, Rolla, MO, November 2, 2012. Title: "Exploring periodontal disease progression as a spatially-referenced phenomenon"
27. Invited speaker, Department of Statistics, Texas A&M University, College Station, TX, September 7, 2012. Title: "Nonparametric spatial modeling of periodontal disease data with non-random missingness".
28. Invited talk, Division of Periodontics, University of Iowa, Iowa City, IA, May 8, 2012. Title: "Nonparametric spatial modeling of periodontal disease data with non-random missingness".
29. Invited talk, Division of Biostatistics, MD Anderson Cancer Center, Houston, TX, January 13, 2012. Title: "Nonparametric spatial modeling of periodontal disease data with non-random missingness".
30. Invited speaker, Division of Oral Health, CDC, Atlanta, GA, December 7, 2011. Title: "Statistical Methods for Oral Health Data".
31. Invited talk, 2011 Dental Task Force Meetings, Newark, NJ, May 9-10. Title: "Statistical Methods for Oral Health Data".
32. Invited talk, Department of Bio-medical Engineering, GA Tech, Atlanta GA, May 6, 2011. Title: "A latent factor model for spatial data with non-random missingness".
33. Invited talk, 2011 IISA Conference on Probability, Statistics and Data Analysis, Raleigh, NC, April 21-24. Title: "A latent factor model for spatial data with non-random missingness".
34. Invited talk, Division of Biostatistics, University of Miami, FL, Feb 25, 2011. Title: "A latent factor model for spatial data with non-random missingness".
35. Invited talk, Department of Biostatistics and Computational Biology, University of Rochester, NY, Feb 22, 2011. Title: "A latent factor model for spatial data with non-random missingness".
36. Invited talk, Division of Biostatistics, University of Minnesota SPH, Minneapolis, MN, Feb 18, 2011. Title: "A latent factor model for spatial data with non-random missingness".
37. Invited talk, Department of Bioinformatics and Biostatistics, University of Louisville, Louisville, KY, Sep 3, 2010. Title: "Statistical methods for oral health data".
38. Invited talk, 2010 SRCOS Summer Research Conference, Virginia Beach, VA, June 8, 2010. Title: "A latent factor model for spatial data with non-random missingness".
39. Invited talk, Department of Craniofacial Biology, Medical University of South Carolina, Jan 27, 2010. Title: "Periodontal disease: a spatially-referenced phenomenon?".
40. Invited talk, Young Researcher Session, 2009 GEOMED Conference, Charleston, SC, Nov 14-16, 2009. Title: "Bayesian modeling of multivariate spatial binary data with applications to dental caries".

41. Invited talk, Department of Biostatistics and Epidemiology, University of South Carolina, Columbia, September 30, 2009. Title: "Bayesian modeling of multivariate spatial binary data with applications to dental caries".
42. Invited talk, 2009 Joint Statistical Meeting at Washington DC, August 5 2009. Title: "Bayesian modeling of multivariate spatial binary data with applications to dental caries".
43. Invited talk, Department of Statistics, University of Calcutta, India, April 24, 2009. Title: "A latent factor model for spatial data with non-random missingness".
44. Invited 'Teatime for Science' Talk, Dept. of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC on April 6, 2009. Title: " $U$ -statistics for right-censored data".
45. Invited talk, Division of Biostatistics, Ohio State University, Columbus, OH, March 19, 2009. Title: "A latent factor model for spatial data with non-random missingness".
46. Invited talk, Department of Biostatistics, Medical College of Georgia, February 26, 2009. Title: "Linear mixed models for skew-normal/independent bivariate responses with applications to periodontal data".
47. Invited Teatime for Science Talk, Dept. of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC, October 20, 2008. Title: "Linear mixed models for skew-normal/independent bivariate responses with applications to periodontal data".
48. Invited talk, SRCOS Business Meeting, Columbia, SC, October 3, 2008. Title: "2008 SRCOS – A Grand Success".
49. Invited talk, 2007 DAE Meeting, University of Memphis, Memphis, TN, Oct 31 – Nov 2, 2007. Title: "A two-part spatial model with excess zeroes, with applications to caries research".
50. Invited talk, ICAISC Meeting, Univ. of North Carolina, Charlotte, NC, October 12-14, 2007. Title: "A two-part spatial model with excess zeroes, with applications to caries research".
51. Invited talk, Dept. of Mathematics and Statistics, Georgia State University, Atlanta, GA, December 1, 2006. Title: " $U$ -statistics for right-censored data".
52. Invited talk, Dept. of Mathematics and Statistics, Bowling Green State University, Bowling Green, OH, February 15, 2006. Title: "Novel nonparametric approaches to event-time data".
53. Invited talk, Dept. of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC, October 13, 2005. Title: "Novel nonparametric approaches to event-time data".
54. Invited talk, Dept. of Mathematics, Wake Forest University, Winston Salem, NC, May 31, 2005. Title: "Novel nonparametric approaches to event-time data".

## Regional/Local [Invited]

1. Invited lecture, Cancer Prevention & Control seminar club for T32 Trainees, Dept. of Health Behavior & Policy, Virginia Commonwealth University, Richmond, VA, March 21, 2022. Title: "Statistical Hypothesis Testing for Cancer Researchers" [Virtual format]
2. Invited talk, Developmental Therapeutics Program, Massey Cancer Center, Virginia Commonwealth University, Richmond, VA, October 1, 2021. Title: "Biostatistics Shared Resources: What can we do to make your research successful?" [Virtual format]
3. Invited talk, Cancer Biology Program, Massey Cancer Center, Virginia Commonwealth University, Richmond, VA, Sep 17, 2021. Title: "Biostatistics Shared Resources: What can we do to make your research successful?" [Virtual format]
4. Invited talk, Cancer Prevention & Control seminar club for T32 Trainees, Dept. of Health Behavior & Policy, Virginia Commonwealth University, Richmond, VA, February 24, 2020. Title: "Statistical considerations in Cancer Research" [Virtual format]
5. Invited colloquium, Dept. of Biostatistics, Virginia Commonwealth University, Richmond, VA, January 17, 2020. Title: "Efficient estimation of mixture cure frailty models for clustered current-status data"
6. Invited colloquium, Dept. of Biostatistics, Virginia Commonwealth University, Richmond, VA, September 20, 2019. Title: "Geostatistical estimation of positive definite matrices, with applications to diffusion tensor imaging"
7. Invited talk, Disparity Study Group of VCU's Massey Cancer Center, Richmond, VA, May 8, 2019. Title: "Assessing spatial confounding in shared component models, with applications to SEER cancer data"
8. Invited talk, Twin Hickory Elementary School, Henrico, VA, October 31, 2018. Title: "Biostatistics as a Career Choice".
9. Invited talk, Dept. of Statistics and Operations Research, Virginia Commonwealth University, Richmond, VA, March 31, 2016. Title: "A marginal cure-rate model for spatial survival data".
10. Invited talk, Biostatistics Research Branch, National Institute of Allergy and Infectious Disease [NIH/NIAID], Rockville, MD, March 2, 2016. Title: "A marginal cure-rate model for spatial survival data".

## International [Contributed, but classified as competitive]

1. Contributed talk, BNP13 – 13<sup>th</sup> International Conference on Bayesian Nonparametrics, Puerto Varas, Chile, October 23-28, 2022. Title: "Conditional Density Estimation using Spline Approximations"
2. Topic-contributed talk, Joint Statistical Meetings, Washington DC, Aug 6-11, 2022. Title: "Weighted least-squares estimation for clustered competing risks data".

3. Topic-contributed talk, Joint Statistical Meetings, Vancouver, BC, July 28 -August 2, 2018. Title: "Spatial Wishart Processes in Computational Neuroscience".
4. Topic-contributed talk, 60th World Statistics Congress of the International Statistical Institute (ISI 2015), Rio de Janeiro, Brazil, July 26-31, 2015. Title: "A marginal cure-rate model for spatial survival data".
5. Contributed poster, 2012 ISBA Meeting, Kyoto, Japan, Aug 26-31. Title: "Nonparametric spatial models for periodontal data"

National [Contributed]

1. Contributed talk, 2018 ICSA Applied Statistics Conference, New Brunswick, NJ, June 14-17, 2018. Title: "Bayesian nonparametric precision medicine for oral health"
2. Contributed talk, 2017 ENAR Spring Meetings of the International Biometric Society, Washington DC, March 12-15. Title: "Bayesian nonparametric modeling for clustered ordinal periodontal data"
3. Topic-contributed talk, 2016 Joint Statistical Meetings, Chicago, IL, July 30-Aug 4 Title: "Bayesian nonparametric modeling for clustered ordinal periodontal data"
4. Contributed Poster, 2016 VCU Massey Cancer Center Annual Retreat, June 17. Title: "Weighted Kaplan-Meier tests for crossing survival curves, with applications to BMT"
5. Contributed talk, 2016 ENAR Meetings, Austin, TX, March 6-9. Title: "A two-stage model for dental caries assessment using non-Gaussian Markov random fields"
6. Contributed talk, 2015 Joint Statistical Meetings, Seattle, WA, August 8-13. Title: "A two-stage model for dental caries assessment using non-Gaussian Markov random fields"
7. Contributed poster, 10<sup>th</sup> Conference on Bayesian Nonparametrics [BNP10], Raleigh, NC, June 22-26, 2015. Title: "Bayesian nonparametric modeling for clustered ordinal periodontal data"
8. Topic-contributed talk, 2012 Joint Statistical Meeting, San Diego, CA, July 28-Aug 2. Title: "Nonparametric spatial models for periodontal disease data"
9. Contributed poster, 2012 Joint Meeting of the American Academy of Ophthalmology and the Asia-Pacific Academy of Ophthalmology, Chicago, IL, Nov 10-13. Title: "Long-term longitudinal change in keratometry after pediatric cataract surgery"
10. Contributed poster, Annual Meeting of the Society for Research on Nicotine and Tobacco; Houston, Texas, March 16, 2012. Title: "Factors associated with non-daily smokers' motivation to quit smoking"
11. Contributed poster, Annual Meeting of the Society for Behavioral Medicine; New Orleans, LA, April 13, 2012. Title: "Trajectories from adolescence to adult non-daily smoking: Data from ADD Health"

12. Contributed poster, MUSC Department of Medicine 5<sup>th</sup> Research Day, December 9, 2010. Title: "Spatial Methods in Dentistry"
13. Contributed poster, Univ. of Florida Workshop on "Categorical Data Analysis", Jan 14-16, 2010. Title: "Bayesian change-point modeling in sex-offender research"
14. Contributed poster, MUSC Department of Medicine Annual Research Day, Dec 10, 2009. Title: "Spatial Methods in Dentistry"
15. Contributed poster, 2009 GEOMED Meeting, Charleston, SC, Nov 14-16, 2009. Title: "A spatial beta-binomial model for clustered dental caries data"
16. Contributed talk, WNAR Annual Meeting, Univ. of California, Davis, CA, June 22-25, 2008. Title: "Bayesian change-point modeling in sex-offender research"
17. Contributed poster, 2008 SRCOS Summer Research Conference, Charleston, SC, June 8-11, 2008. Title: "Semiparametric models for left truncation and right-censoring with missing censoring indicators"
18. Contributed talk, ENAR Annual Meeting, Arlington, VA, March 16-19, 2008. Title: "Bayesian change-point modeling in sex-offender research"
19. Contributed poster, Bayesian Biostatistics Conference, MD Anderson Cancer Center, Jan 31-Feb 1, 2008. Title: "Bayesian change-point modeling in sex-offender research"
20. Contributed poster, Bayesian Statistics Workshop, Carnegie Mellon Univ. on October 19-20, 2007. Title: "A two-part spatial model with excess zeroes, with applications to caries research"
21. Contributed talk, Joint Statistical Meeting (JSM), Salt Lake City, UT, July 29-Aug 2, 2007. Title: "Bayesian change-point modeling in sex-offender research"
22. Contributed poster, 32<sup>nd</sup> Annual Spring Lecture Series in Spatial Statistics, Univ. of Arkansas, AR on April 12-14, 2007. Title: "Bayesian modeling of multivariate spatial binary data with applications to dental caries"
23. Contributed talk, 2007 IADR Meeting, New Orleans, LA, March 20-23, 2007. Title: "Two-group nonparametric tests for clustered dental data"
24. Contributed talk, ENAR 2006 Spring Meeting, Tampa, FL, March 26-29, 2006. Title: "Testing equality of survival curves when population marks are missing"
25. Contributed talk, SCMA 2005 Conference, Auburn, AL, December 2-4, 2005. Title: "Testing equality of survival curves when population marks are missing"
26. Contributed talk, Joint Statistical Meeting (JSM), Minneapolis, MN, August 7-11, 2005. Title: "Testing equality of survival curves when population marks are missing"

27. Poster presentation, SRCOS Annual Research Conference in Statistics, Clemson, SC, June 5-8, 2005. Title: "Monotone convex sequences and Cholesky decomposition of symmetric Toeplitz matrices"
28. Poster presentation, MBSW 2005 Conference, Muncie, IN, May 23-25, 2005. Title: " $U$ -statistics for right-censored data"
29. Poster presentation, FACM Conference, NJIT, Newark, NJ, May 13-15, 2005. Title: "Testing equality of survival curves when population marks are missing"
30. Contributed talk, Graduate Student Seminar, University of Georgia, Athens, GA, January 2005. Title: "Testing equality of survival curves when population marks are missing"

### Workshops/Courses Attended

1. Spring & Fall Symposiums (2011, 2014, 2016, 2017, 2018, 2019, 2020, 2022) of the Task Force on Design and Analysis in Oral Health Research, Newark, NJ. Various topics on Oral Health Research were covered
2. Workshop on "Navigating the Sea of Genomic Data", American Dental Association Headquarters, Chicago, IL, October 28-29, 2015
3. Workshop on semiparametric regression by Matt Wand (Sydney), 2011 Graybill Conference, Fort Collins, CO June 22, 2011
4. Workshop on NHANES and Oral Health by Laurie Barker (CDC), MUSC, May 18, 2011
5. Spring 2010 SC-ASA conference (featuring Dr. Dennis Lin), Columbia, SC, April 9, 2010
6. Spring 2009 SC-ASA conference (featuring Dr. Ron Wasserstein), Columbia, SC, April 10, 2009
7. SC SAS Users Group Conference (featuring Jennin Milum), Columbia, SC, April 10, 2009
8. Grants Forms & Budget Workshop by Barbara Tilley, DBE-MUSC, Charleston, SC, January 2009
9. Spring 2008 SC-ASA conference (featuring Dr. Alan Agresti), Columbia, SC, April 11, 2008
10. Workshop for Junior Researchers, ENAR Spring Meeting, Arlington, VA, March 20, 2008
11. Teaching using Problem Based Learning, DBBE-MUSC, Dec 8, 2007

### Workshops Organized

1. Workshop on "Survival Analysis using R", Dept. of Mathematics, Statistics and Physics, Qatar University, Doha, Qatar, August 22, 2019

2. Workshop on “Introductory Spatial Data Analysis”, Duke-NUS (National University of Singapore) Medical School, Singapore, January 3, 2018

## **TEACHING, ADVISING AND MENTORING**

### **Major Teaching Assignments**

@ Virginia Commonwealth University [Responsibility: 100%]

Fall 2015	BIOS 625	Categorical Data Analysis & Generalized Linear Models [4 credits]
Fall 2016	BIOS 667	Statistical Learning and Data Mining [3 credits]
Fall 2016	BIOS 690	Biostatistics Research Seminar [1 credit]
Sp. 2017	BIOS 546	Linear Models [3 credits]
Sp. 2017	BIOS 690	Biostatistics Research Seminar [1 credit]
Fall 2017	BIOS 690	Biostatistics Research Seminar [1 credit]
Sp. 2018	BIOS 625	Categorical Data Analysis & Generalized Linear Models [4 credits]
Sp. 2018	BIOS 690	Biostatistics Research Seminar [1 credit]
Fall 2018	BIOS 690	Biostatistics Research Seminar [1 credit]
Sp. 2019	BIOS 647	Survival Analysis [3 credits]
Sp. 2019	BIOS 690	Biostatistics Research Seminar [1 credit]
Fall 2019	BIOS 690	Biostatistics Research Seminar [1 credit]
Sp. 2020	BIOS 690	Biostatistics Research Seminar [1 credit]
Sp. 2020	BIOS 691	Advanced Bayesian Biostatistics [3 credits]
Fall 2020	BIOS 647	Survival Analysis [3 credits]
Fall 2020	BIOS 690	Biostatistics Research Seminar [1 credit]
Sp. 2021	BIOS 690	Biostatistics Research Seminar [1 credit]
Fall 2021	BIOS 601	Analysis of Biomedical Data – I [3 credits]
Fall 2021	BIOS 690	Biostatistics Research Seminar [1 credit]
Sp. 2022	BIOS 647	Survival Analysis [3 credits]
Sp. 2022	BIOS 690	Biostatistics Research Seminar [1 credit]
Fall 2022	BIOS 601	Analysis of Biomedical Data – I [3 credits]
Fall 2022	BIOS 690	Biostatistics Research Seminar [1 credit]
Sp. 2023	BIOS 647	Survival Analysis [3 credits]
Sp. 2023	BIOS 690	Biostatistics Research Seminar [1 credit]

@ University of Minnesota [Responsibility: 100%]

Sp. 2012	PuBH 8472	Spatial Biostatistics [3 credits]
Sp. 2013	PuBH 7440	Introduction to Bayesian Analysis [3 credits]
Sp. 2014	PuBH 8472	Spatial Biostatistics [3 credits]
Sp. 2014	PuBH 7440	Introduction to Bayesian Analysis [3 credits]
Sp. 2015	PuBH 8472	Spatial Biostatistics [3 credits]
Sp. 2015	PuBH 7440	Introduction to Bayesian Analysis [3 credits]

@ Medical University of South Carolina [Responsibility: 100%]



Sp. 2007	BMTRY 711	Categorical Data Analysis [3 credits]
Sp. 2008	BMTRY 718	Stochastic Processes in Biology and Medicine [3 credits]
Fall 2009	BMTRY 704	Nonparametric methods in Biology & Medicine [3 credits]
Sp. 2011	BMTRY 711	Categorical Data Analysis [3 credits]

## Graduate Students Trained

### Virginia Commonwealth University

#### *Doctoral Thesis Advising*

- Atika Farzana Urmi [In Progress; expected completion: Summer 2024]
- Edem Defor [In Progress; expected completion: Summer 2025]
- Reuben Retnam [Completed: Summer 2022]. Thesis title: "Accelerated Alternating Expectation-Conditional-Maximization Algorithms for fitting Non-Gaussian Observational Longitudinal Data, with Applications to Periodontal Disease". Current position: Data Scientist, Takeda Pharmaceuticals, Cambridge, MA
- Jonathan Wei-cheng Wu [Completed: Spring 2021]. Thesis title: "Analyzing Electronic Health Records with Time-to-event Endpoints: Propensity Scores and Semiparametric Approaches". Current position: Principal Statistician, GlaxoSmithKline
- Douglas Mesquita [Co-directed with Dr. Marcos Prates @ Federal University of Minas Gerais, Bello Horizonte, Brazil. Completed: Spring 2020]. Thesis title: "Spatial Confounding beyond Generalized Linear Mixed Models: Extensions to Shared Components and Spatial Frailty Models". Winner of the Best Dissertation Award, in conjunction with the 2021 SINAPE conference of the Brazilian Statistical Association. Current position: Data Scientist, Localiza Car Rental, Minas Gerais, Brazil

#### *Doctoral Committees Served*

- Supraja Malladi, PhD student, Dept. of Statistical Sciences and Operations Research, VCU. Expected completion: Summer 2022

#### *Other Mentoring*

- Jing Zhang, PhD (Mathematics), MS student at VCU. Worked on a summer student research project on implementing an EM algorithm for single-index survival modeling. Current position: Biostatistician, The Emmes Company, Rockville, MD
- Xiaoyan Deng, MS statistician, Biostatistics Shared Resource Core, Massey Cancer Center
- Jin (Veronica) Liu [Spring/Summer 2017]. Developed a SAS-based computing project for clustered current status data, and presented at the 2017 VCU's Biostatistics Student's Research Retreat. Current position: Senior Biostatistician, Vertex Pharmaceuticals

- Victoria Garcia [Spring/Summer 2016]: Was Runner-Up at the Student Paper Competition, 2016 VA Academy of Sciences [Statistics Section] & VA Section of the ASA joint Spring Meetings, University of Mary Washington, Fredericksburg, VA
- Christian Galarza [2015/2016; Master's co-direction with Prof. Victor H. Lachos @ University of Campinas, Campinas, Sao Paulo, Brazil]. Selected among the 4 finalists for the Best Master's thesis competition across Brazil between 2014-2016, in conjunction with the 22<sup>nd</sup> SINAPE Meeting of the Brazilian Statistical Association. Current position: Assistant Professor, Faculty of Mathematics and Natural Science, Escuela Superior Politécnica del Litoral – ESPOL, Guayaquil - Ecuador.

### *Faculty Mentoring*

- Le Kang, Ph.D., Associate Professor, Dept. of Biostatistics, VCU
- Chenlu Ke, Ph.D., Assistant Professor, Dept. of Statistical Sciences & Operations Research, VCU
- Ya Su, Ph.D., Assistant Professor, Dept. of Statistical Sciences & Operations Research, VCU
- Indranil Sahoo, Ph.D., Assistant Professor, Dept. of Statistical Sciences & Operations Research, VCU
- Wendy Bottinor, MD, Assistant Professor, Dept. of Internal Medicine, VCU Medical School on her KL2 scholarship
- Chunqing Guo, PhD, Assistant Professor, Dept. of Human and Molecular Genetics, VCU Medical School, on his ACS-IRG grant

### University of Minnesota

#### *Doctoral Theses Advising\**

- Xiaoyue Zhao [Completed: Summer 2017]. Title: "Bayesian modeling and inference for asymmetric responses with applications". Current Position: Biostatistician, Amgen, Thousand Oaks, CA
- Diana Milena Galvis Soto [Co-directed with Dr. Victor H. Lachos @ University of Campinas, Campinas, São Paulo, Brazil; Completed: Summer 2015], Title: "Bayesian Analysis of Regression Models for Proportion Data". Received an *Honorable Mention* (Best in Statistics) in the Prestigious *CAPES 2015 Best Thesis award* competition by the Brazilian Govt. Also selected among the 4 finalists for the Best Doctor thesis competition across Brazil between 2014-2016, in conjunction with the 22<sup>nd</sup> SINAPE Meeting of the Brazilian Statistical Association. Current Position: Assistant professor in the Dept. of Mathematics and Statistics, Universidad Del Quindío, Columbia

\*Patrick Schnell started as my PhD student, published a first-authored paper under my advising in *JRSS-C*, but discontinued after I moved to VCU. Current Position: Assistant professor in the Dept. of Biostatistics, Ohio State University

#### *Master's Theses Advising*

- Patrick Hilden [Completed: June 2012]. Title: "Analysis of Correlated Count Data with excess zeroes via the SAS NLMIXED procedure". Current Position: Biostatistician, St. Barnabas Medical Center, Livingston, NJ
- Brad Lewis [Completed: July 2013]. Title: "Augmenting beta regression for periodontal proportion data via the SAS NLMIXED procedure". Current Position: Mayo Clinic, Rochester, Minnesota
- Jonah Popp [Completed: July 2015] Title: "Evaluating the Effects of Two Enhancements of the Quit and Win Contest on Smoking Behavior: An Analysis of Repeated Measures Zero-Modified and Overdispersed Count Data". Current Position: PhD student at the School of Public Health, University of Minnesota, Twin Cities
- Xiang Li [Completed: June 2015]. Title: "Exploring spatial models for periodontal disease data with non-ignorable missingness via WinBUGS/OpenBUGS". Current Position: Research Assistant, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, China

#### *Master's Committees Served*

- Xiaopei Wang, Department of Statistics, UMN [Completed: Fall 2011] Title: "A dynamic approach for finding a parametric transformation in regression".
- Xinling Xu, Department of Statistics, UMN [Completed: Summer 2013]. Title: "Effect of ASIP genotype on melanoma disease for horses".
- Amruta Naik, Division of Periodontology, UMN [Completed: Summer 2014]. Title: "Prognostic Factors Associated with Periodontal Treatment Response in Pregnant Women".

#### *Academic Advising*

- Jonah Popp [PhD student, Health Policy and Management, School of Public Health]
- Yuqian Zhang [MS student, Biostatistics, School of Public Health]
- Wenjun Kang [PhD student, Biostatistics, School of Public Health]
- Maitreyee Bose [PhD student, Biostatistics, School of Public Health]
- Patrick Schnell [PhD student, Biostatistics, School of Public Health]
- Kristine Kubisiak [PhD student, Biostatistics, School of Public Health]
- Xiang Li [MS student, Biostatistics, School of Public Health]

#### *Other Biostatistical Mentoring*

- Samir Kariwala on his K-grant [Faculty, Department of Otolaryngology]
- Alicia Paulson [MPH Executive Program in Public Health Practice, School of Public Health]

- Hee Yun-Lee on her KL2 award from UMN [Faculty, School of Social Work, UMN]
- Stephanie Misono on her Pre-K award from UMN [Faculty, Dept. of Otolaryngology]

## Medical University of South Carolina

### *Doctoral Thesis Advising*

- Anthony J. Parker [Completed: Fall 2012]. Co-directed with Prof. Elizabeth Slate, presently the *Duncan McLean and Pearl Levine Fairweather Professor* of Statistics, Florida State University. Thesis title: "New Statistical Methods for the Analysis of Periodontal Data". NIH/NIDCR's prestigious F31 *Ruth L. Kirschstein National Research Service Awardee*. Current employment: Mathematical Statistician, *Food and Drug Administration* [FDA], Silver Springs, MD

### *Doctoral Committees Served*

- Bichun Ouyang, completed 2009, Title: "Modeling and Bayesian Analysis of recurrent events and longitudinal data, with dependent termination".
- Emily Van-Meter, completed 2009, Title: "Proportional Odds Models for Dose Finding Clinical Trials Design with Ordinal Toxicity Grading". 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.
- Christopher Swearingen, completed 2010, Title: "Beta Regression: Modeling extremely skewed distributions within a generalized linear framework".

### *Master's Committees Served*

- Alex Smith, completed 2007, Title: "Masticatory efficiency tests and the obturator functioning scale"
- Karra Grasso, completed 2007, Title: "Speech intelligibility studies in surveys"
- Jumana Jaradat, completed 2010, Title: "Vitamin D and Periodontal Disease in Gullah Women"
- William Mountford, completed 2010, Title: "Adequacy of oral health information to diabetics"

### *Other Biostatistical Mentoring*

- Dr. Crystal Flynn-Longmire, Assistant Professor, Dept. of Neurosciences, MUSC, March 2010 – August 2010

- Dr. Victor H. Lachos, Associate Professor, Universidade Estadual de Campinas, Campinas, Brazil, Summer 2010 and Spring 2011
- Dr. James J. Priscindiario, Post-doctoral Fellow, Dept. of Psychiatry and Behavioral Science, MUSC, Summer 2010 and Summer 2011
- Ms. Nicole Marlow, MS statistician, Div. of Biostatistics and Epidemiology, MUSC, June 2008 – July 2011

Research advising at other universities [generated several peer-reviewed manuscripts in top-shelf journals]

- Lanjia Lin [Florida State University]
- Xiaoyun Li [Florida State University]; winner of 2010 *ENAR Distinguished Student Paper* award
- Timothy Mustvari [Catholic University of Leuven, Belgium]
- Laura Boehm [North Carolina State University]; winner of the coveted 2013 *ENAR John Van Ryzin award* for the best paper submitted to the *ENAR Distinguished Student Paper* competition
- Aldo Medina [University of Campinas, Sao Paulo, Brazil]
- Denise Reis Costa [University of Campinas, Sao Paulo, Brazil]
- Apurva Bhingare [Florida State University]; winner of 2017 ASA's Section on *Bayesian Statistical Sciences Student Travel Award*, and 2018 *ENAR Distinguished Student Paper Award*
- Qian Guan [North Carolina State University, graduate PhD student in my R01 funding]; winner of the 2017 *ENAR Distinguished Student Paper* awards and the ASA's *Health Policy Statistics* Section student travel awards
- Zhou Lan [North Carolina State University], runner-up (2<sup>nd</sup> Prize) in the *Statistical Significance Poster Competition* at the 2017 Joint Statistical Meetings, Baltimore, MD; also won the Best Student paper awards from the ASA's Section on *Mental Health & Statistics in Imaging* (accepted the Mental Health award) to present a paper at the 2019 Joint Statistical Meetings, Denver, Colorado
- Pingping Wang [University of Wisconsin, Madison], currently working as Assistant Professor at School of Economics, Nanjing University of Finance and Economics, Nanjing, P. R. China
- Ting Fung Ma [University of Wisconsin, Madison]
- Satwik Acharya [Texas A&M University], now working as a postdoctoral fellow at the University of Michigan
- Indrajit Ghosh [Texas A&M University]
- Elizabeth Bedia [University of Sao Paulo, Sao Carlos]
- Inkoo Lee [Florida State University], now working as a postdoctoral fellow at Rice University

- Durbadal Ghosh [Florida State University]
- Seungha Um [Florida State University], now working as a postdoctoral fellow at NYU Langone
- Snigdha Das [Texas A&M University]
- Tong Wang [Renmin University/ Texas A&M University], now working as faculty in Renmin University, China

## **SERVICE ACTIVITIES**

### SERVICE TO THE **PROFESSION**

- Nominated as *Chair* of the *Biometrics Section* of the *ASA* for 2024
- Member, 2021-22 *Lindley Prize Committee*, International Society for Bayesian Analysis
- Member, Scientific Program Committee, 2022 *ICSA* (International Chinese Statistical Association) Applied Statistics Symposium, University of Florida, Gainesville, June 19-22. Organized 2 invited sessions
- Reviewer of *invited session proposals*, 2021 Annual Meeting of the AAAS [virtual format]
- Support letter for endowed *Centennial Professorship* nomination, University of Iowa (2020)
- Support letter for 1 ISI Elected Membership Application (2020)
- External examiner for PhD (Statistics) Thesis, *The University of Hong Kong*, 2020
- Member [2020–2024], *Lawrence D. Brown PhD Student Award Committee*, Institute of Mathematical Statistics
- Organized invited session titled: ‘Recent biostatistical advances for analyzing oral health data’ at the 2020 *WNAR/IMS/KISS/JR Annual Meeting*, Anchorage, AK, June 14-17 [postponed to 2021]
- Nominated as *Chair* of the *Biometrics Section* of the *ASA* for 2021, 2022
- Member, *Awards Council, ASA*; 2019-22
- External examiner for Master's Thesis, *Qatar University, Doha, Qatar*, 2019
- Committee Representative of the *ASA* to *AAAS* (Section Q: Education); 4-year term, 03/01/20 – 02/28/24
- Member, International Scientific Committee, *2nd International Conference on Applied Statistics* (ICAS), Dhaka, Bangladesh, December 27-29, 2019
- **Chair**, 2019-2022, *Edward C. Bryant Scholarship Committee* for an outstanding student working in Survey Statistics

- External support letters for two 2019 *ASA Fellow* applicants, and two 2020 *ASA Fellow* applicants.
- Organized invited session titled: 'Recent advances in computationally-intensive Bayesian techniques for analyzing biomedical data', at the *62<sup>nd</sup> ISI World Statistics Congress 2019* (ISI WSC 2019), Kuala Lumpur, Malaysia, August 18 – 23
- External support letter for 2019 *CRM-SSC Prize in Statistics*, Statistical Society of Canada
- 2019 *David P. Byar Young Investigator Award* & ASA Biometrics Section *JSM Travel Award* Committee. The prestigious Byar award is sponsored by the *Biometrics Section* of the ASA, and is presented to an early-stage investigator every year at the JSM for the best paper in this award category.
- Chair, Topic-Contributed Session at the 2018 *Joint Statistical Meetings*, Vancouver, Canada
- Organizer, Topic-Contributed session titled: "Axles for Voxels: Recent Statistical Advances in Neuroimaging Data Analysis", at the 2018 *Joint Statistical Meetings*, Vancouver, Canada.
- Chair, contributed session, 2018 *ICSA Applied Statistics Conference*, New Brunswick, NJ, June 16-17
- Judge, Student Poster Competition, *2018 International Indian Statistical Association Annual Meeting*, University of Florida, Gainesville, FL, May 17-20
- Chair, Invited session: "Advances in Nonparametric Statistics with Applications" at the *2018 International Indian Statistical Association Annual Meeting*, University of Florida, Gainesville, FL, May 17-20
- Scientific Program Committee **Co-chair** (with Prof. Sanjib Basu & Sandeep Menon), *2018 International Indian Statistical Association Annual Meeting*, University of Florida, Gainesville, FL, May 17-20
- External referee for *Promotion & Tenure* applications at Vanderbilt University (2017), Florida International University (2018), Weill Cornell Medicine (2018), Penn State College of Medicine (2018), University of Texas School of Public Health (2018), Duke University (2019, 2021), University of New Mexico (2019), Harvard Medical School (2020), Medical University of South Carolina (2020, 2021), Case Western Reserve University (2020), Texas A&M University (2020), Roswell Park Cancer Center (2021), University of North Carolina at Wilmington (2021), Old Dominion University (2021), Abdul Wali Khan University (Pakistan, 2022)
- External support letter for *Canada Research Chair* (CRC, Tier 2) positions (2018) from the Govt. of Canada; candidate renewed CRC position successfully
- External support letters for a number of successful United States Permanent Residency applications in the EB-1 category
- Member, ENAR *Distinguished Student Paper Award* Committee 2018-2020 (3-years term)
- Elected *Council of Sections Representative* for the *Biometrics Section* of the ASA, 2018-2020

- Chair, invited session, titled "Recent advances in Bayesian modeling of spatial and spatio-temporal data" at the *61<sup>st</sup> World Statistics Congress of the International Statistical Institute*, Marrakech, Morocco, July 16-21, 2017
- 2017 *David P. Byar Young Investigator Award Applications* Committee
- Organizer, invited session titled "Computer-intensive Bayesian methods for analyzing biomedical data: A blissful marriage, or some midlife crisis?", at the *61<sup>st</sup> World Statistics Congress of the International Statistical Institute*, Marrakech, Morocco, July 16-21, 2017
- Nominated as a candidate for the 2017 *Council of Sections Representative of the Biometrics Section of the ASA*
- *Council of Chapters Representative* [2016 – 2018], VA Chapter of the ASA [VA-ASA]
- Chair, Student Paper Competition, *2016 Spring Meeting of the VA-ASA*, University of Mary Washington, Fredericksburg, VA, May 19
- Member [2017-2022], *ASA E. C. Bryant's Scholarship Committee*
- **Program Chair** of the *ASA Biometrics Section* for 2016 *JSM* at Chicago, July 30-Aug 4 [Organized the entire program (competition, scheduling, chair allocation, etc) of the *Biometrics Section*, consisting of 6 invited sessions, 14 topic-contributed sessions, and 27 contributed sessions.]
- Nominated as a candidate for the 2016 *Council of Sections Representative of the Biometrics Section of the ASA*
- Chair, invited session titled "Recent Developments in Bayesian Modeling to Analyze Large Scale Spatial and Spatiotemporal Datasets" at the *2016 JSM* at Chicago, July 30-Aug 4
- Organizer, invited session titled "Computer-intensive Bayesian Techniques and Neurostatistics: A Peaceful Co-existence?" at the *2016 ENAR Spring Meetings*, Austin, TX, March 6-9
- **Program-Chair Elect** of the *ASA Biometrics Section* for 2015 *JSM* at Seattle, Aug 8-13
- Organized two invited sessions at the 2015 *International Indian Statistical Association (IISA) Meeting*, Pune, India from December 20-24, 2015
- Member of the **International Program Committee** for the 2015 *International Indian Statistical Association (IISA) Meeting*, Pune, India from December 20-24, 2015
- Chaired an invited showcase session for *JABES* (Journal of Agricultural, Biological and Environmental Statistics), at the *2015 Joint Statistical Meetings, Seattle*
- Organized an invited showcase session for *JABES* at the *2015 Joint Statistical Meetings, Seattle*
- Member of the scientific committee for 2015 *XIV School of Regression Models, Campinas, Sao Paulo, Brazil*



- Chair, invited session, Title: "Recent advances in computer-intensive Bayesian methods for biological modeling" at the *2014 Annual Meeting of the IBC*, Florence, Italy.
- Co-organized invited session titled: "Recent advances in computer-intensive Bayesian methods for biological modeling" for the *2014 Annual Meeting of the IBC*, Florence, Italy.
- *ENAR Correspondent* to the 2013 IYS [*International Year of Statistics*] celebration.
- ASA Committee member on *Award of Outstanding Statistical Applications*, Jan 1 2013 – Dec 31 2015.
- Member of the Award Committee on the *SBSS-sponsored student paper competition* at the *2013 Joint Statistical Meetings*, Montréal, Canada
- Chair, Invited session: "Spatial random effect modeling for small area environmental health data" at the *2013 Joint Statistical Meetings*, Montréal, Canada.
- Organized an IISA (International Indian Statistical Association) sponsored invited session titled "Computer-intensive methods and geographically-referenced data: A blissful marriage against all odds?" at the *2013 Joint Statistical Meetings*, Montréal, Canada.
- Member, Organizing Committee, "Young Statisticians Meet – An International Conference", at the *University of Burdwan*, West Bengal, India, December 24-25, 2012
- Organizer, topic-contributed session titled "Advances in latent-variable spatial models, with applications to bio-sciences" at the *2012 Joint Statistical Meetings*, San Diego, CA, Jul 28-Aug 2
- Organizer, invited session titled "Advances in spatial latent variable modeling, with application to bio-sciences" at the *2012 Annual Meetings of the International Biometric Society* at Kobe, Japan, August 26-31 [Acceptance rate ~ 30%]
- Organized a CDC workshop (by Laurie Barker) on "NHANES and Oral Health" at MUSC, May 18<sup>th</sup>, 2011
- External examiner for Master's Thesis, University of Fort Hare, South Africa, 2012
- External examiner of PhD dissertation, University of Lahore, Pakistan, 2012
- Judge, Student Paper Competition, *2010 SRCOS Summer Research Competition*, Virginia Beach, VA, June 6-9
- Chair, invited session titled "High dimensional variable selection: At the crossroads of Bayes and frequentist inference", at the *2009 Joint Statistical Meetings*, Washington DC, August 1-6
- Organizer, invited session titled "Recent advances in nonparametric methods for interval-censored data", at the *2009 Joint Statistical Meetings*, Washington DC, August 1-6
- Organizer, topic-contributed session titled "Applications of Bayesian methods to biomedical data", at the *2009 Joint Statistical Meetings*, Washington DC, August 1-6

- Chair, 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 Co-Chair** for *2008 SRCOS Summer Research Conference*, Charleston, SC, June 8-11
- Chair, invited session titled “Regularization and Hierarchical Modeling: Two philosophies for Variable Selection” at the *2008 ENAR Spring Meeting*, Arlington, VA, March 16-19.

## SERVICE TO THE **UNIVERSITY/SCHOOL/DEPARTMENT**

### Virginia Commonwealth University

#### University service:

- Member, Faculty Search Committee, Department of Pediatric Dentistry, VCU [2015 – Present]
- Member, Oral Health in Childhood and Adolescence Transdisciplinary Core Hiring Initiative of the VCU's *iCubed* program [2017 –]
- Member, Senior Advisory Committee, VCU Massey Cancer Center [2016 –]
- Member, Protocol Review Monitoring Committee, VCU Massey Cancer Center [2016 –]
- Member, Clinical Trial Concept Review Committee, VCU Massey Cancer Center [2016 –]
- Member, Data Sharing Review Committee, VCU Massey Cancer Center [2018 –]
- Member, Clinical Research Leadership Committee, VCU Massey Cancer Center [2020 –]
- Member, Data Safety Monitoring Board, VCU Parkinson's and Movement Disorder Center [2015 –]
- Member, Microbiome Forum, Center for Microbiome Engineering and Data Analysis (cMEDA) [2019 –]
- Co-leader, Oral Health Disparity subsection, VCU Massey Cancer Center Cancer Prevention & Control Program [2019 –]
- Review committee, VCU Massey Cancer Center American Cancer Society Institutional Research Grant (ACS IRG) [2020 –]
- Member, VCU Massey Biostatistics Shared Resources Co-Director Search Committee [2021 – 2022]
- Chair, VCU Massey Biostatistics Shared Resources Masters' Biostatistician Search Committee [2021 – 2022]

#### Department service:

- Judge, 2016 Summer Student Training Program (SSTP) presentations
- Member, Curriculum Review Committee [2015 –]
- Member, Curriculum Committee [2015 –]

- Chair, Seminar Committee [2016 –]
- Member, Tenure-track/eligible Faculty Search Committee [2016 – 2017]
- Chair, Tenure Application Committee (Full Prof. level) of Dr. Jinze Liu [2021]
- Co-chair, Faculty Search Committee (Open-rank position), [2021 – 2022]
- Member, Promotion & Tenure Application Committee (Assoc. Prof. level) of Dr. Ekaterina Smirnova [2022]
- Member, Promotion Application Committee (Full Prof. level) of Dr. Nitai Mukhopadhyay [2022]

### University of Minnesota

#### University service:

- SPH representative to the Faculty Senate [2013 – 2014]

#### School of Public Health Service:

- Public Health Practice (PHP) Faculty Development Committee [2012 – 2015]
- SPH Health Disparities Working Group [2012 – 2015]
- Judge, School of Public Health Student Research Day [2013]

#### Division of Biostatistics Service:

- Admissions committee, both MS/PhD & Applied Biostatistics Certificate [2012 – 2015]
- Recruiting committee [2011 – 2015]

### Medical University of South Carolina

#### University service:

- Full member of graduate faculty [May 2010 – July 2011]
- Associate member of graduate faculty [Sep 2006 – April 2010]

#### Division of Biostatistics & Epidemiology service:

- Chair, Seminar Committee [July 2006 – July 2011]
- Member, Library Committee [August 2006 – July 2009]
- Chair, Advanced Exam Committee [Jan 2007 – June 2010]
- Member, Graduate Student Admissions Committee [June 2009 – July 2011]
- Member, Student development committee [June 2007 – July 2011]
- Member, Local organizing committee, 2008 SRCOS Summer Research Conference

### University of Georgia

Department of Statistics service:

- Graduate Student Seminar Committee [July 2005 – May 2006]

## **PUBLICATIONS**

PAPERS PUBLISHED IN PEER REVIEWED JOURNALS [In reverse chronology; arranged by *Methodological & Clinical*]

[Note: \* = MS/PhD student, \*\* = Student mentee, ^ = Junior faculty mentee, § = joint first-author, # = postdoctoral fellow/medical resident.]

R packages/SAS macros developed listed in SOFTWARE section; more software info. available at: <https://people.vcu.edu/~dbandyop/software.html>

Current h-index: **34** (at least 34 manuscripts with  $\geq 34$  citations); source [here](#)

### ***Methodological:***

1. #Lee CY, Wong KY, Lam KF and **Bandyopadhyay D**. A semiparametric joint model for cluster size and subunit-specific interval-censored outcomes, (Accepted), *Biometrics* 2022+
2. \*\*Um S, Linero A, Sinha D. and **Bandyopadhyay D**. Bayesian additive regression trees for multivariate skewed responses, (Accepted), *Statistics in Medicine* 2022+
3. \*\*Lee I, Mai Q, Sinha D, Zhang X, and **Bandyopadhyay D**. Bayesian regression analysis of skewed tensor responses, (Accepted), *Biometrics* 2022+ [Won 2021 IMS Hannan Graduate Student Travel Award]
4. Bakoyannis G, and **Bandyopadhyay D**. Nonparametric tests for multistate processes with clustered data, *Annals of the Institute of Statistical Mathematics* 2022; 74: 837-867
5. Lu X, \*\*Wang Y, **Bandyopadhyay D**, Bakoyannis G. Sieve estimation of a class of partially linear transformation models with interval-censored competing risks data, (Accepted), *Statistica Sinica* 2022+
6. Choi S, \*\*Choi T, Lee H-Y, Han SW and **Bandyopadhyay D**. Double-robust methods for differences in restricted mean lifetimes using pseudo-observations, (Accepted), *Pharmaceutical Statistics* 2022+
7. \*Azevedo DRM, Prates MO and **Bandyopadhyay D**. Alleviating spatial confounding in frailty models, (Accepted), *Biostatistics* 2022+
8. \*\*Wang T, He K, Wei M, **Bandyopadhyay D** and Sinha S. Minorize-maximize algorithm for the generalized odds rate model for clustered current status data, (Accepted), *The Canadian Journal of Statistics* 2022+
9. Prates MO, Azevedo DRM, Godoy LC and **Bandyopadhyay D**. Can transformed Gaussian random fields handle spatial confounding? (Accepted), *Journal of the Indian Statistical Association* 2022+ [Published as a Special Invited paper requested by the journal's editor]
10. \*\*Lan Z, Reich BJ, Guinness J, **Bandyopadhyay D**, Ma L and Moeller G. Geostatistical modeling of positive definite matrices: An application to diffusion tensor imaging, *Biometrics* 2022; 78(2): 548-559 [Paper won one of the (out of 5) Best Student paper awards, and Travel Grant to attend the 2019 ICSA (International Chinese Student Association) Applied Statistics Symposium, Raleigh, NC, June 9-12]

11. Yu JW, **Bandyopadhyay D**, Yang S, Kang L and Gupta G. Propensity score modeling in electronic health records with time-to-event endpoints: Application to kidney transplantation, *Journal of Data Science* 2022; 20(2):188-208
12. Choi S, \*\*Choi T, Cho H and **Bandyopadhyay D**. Weighted least-squares regression with competing risk data, *Statistics in Medicine* 2022; 41(2):227-241
13. \*Zhao X, Zhang L and **Bandyopadhyay D**. A shared spatial model for multivariate extreme-valued binary data with non-random missingness, *Sankhya-B* 2021; 83:374-396
14. \*\*Wang P, \*\*Ma TF, **Bandyopadhyay D**, Tang Y and Zhu J. Composite likelihood inference for ordinal periodontal data with replicated spatial patterns, *Statistics in Medicine* 2021;40(26): 5871-5893
15. \*\*Lan Z., Reich BJ and **Bandyopadhyay D**. Probabilistic diffusion MRI fiber tracking using a directed acyclic graph auto-regressive model of positive definite matrices, *Journal of Statistical Research* 2021; 55(1): 147-158
16. Swihart BJ and **Bandyopadhyay D**. Bridged parametric survival models: General paradigm and speed improvements, *Computer Methods and Programs in Biomedicine* 2021; 206: 106115
17. \*Azevedo DRM, Prates MO and **Bandyopadhyay D**. MSPOCK: Alleviating spatial confounding in multivariate disease mapping models, *Journal of Agricultural, Biological and Environmental Statistics* 2021; 26: 464-491
18. Lam KF, Lee CY, Wong KY and **Bandyopadhyay D**. Marginal analysis of current status data with informative cluster size using a class of semiparametric transformation cure models, *Statistics in Medicine* 2021; 40(10): 2400-2412
19. **Bandyopadhyay D**, Prates M, \*Zhao X and Lachos VH. Spatial skew-normal/independent models for non-randomly missing clustered data, *Statistics in Medicine* 2021; 40(13): 3085-3105
20. Lock E. and **Bandyopadhyay D**. Bayesian nonparametric multiway regression for clustered binomial data, *Stat* 2021; 10(1): e378
21. \*\*Lan Z., Reich BJ, **Bandyopadhyay D**. A Bayesian semiparametric mixture model for spatially-dependent positive definite matrices with applications to diffusion tensor imaging, *The Canadian Journal of Statistics* 2021; 49(1): 129-149 [Paper won the 2019 Best Student paper award competition of the ASA's Section on Mental Health & Section on Imaging]
22. Zhang F, Li R, Lian H, **Bandyopadhyay D**. Sparse reduced-rank regression for multivariate varying-coefficient models, *Journal of Statistical Computation and Simulation* 2021; 91(4): 752-767
23. \*Azevedo DRM, **Bandyopadhyay D**, Prates MO, Abdel-Salam A-SG, Garcia D. Assessing spatial confounding in cancer disease mapping using R, *Cancer Reports* 2020; 3(4): e1263
24. \*\*Guan Q, Reich BJ, Laber E, **Bandyopadhyay D**. Bayesian nonparametric policy search with application to periodontal recall intervals, *Journal of the American Statistical Association* –

*Applications & Case Studies* 2020; 115(531): 1066-1078 [Paper won the 2017 ENAR Distinguished Student Paper Award, the 2017 Health Policy Statistics Section (HPSS) of the ASA Student Travel Award, and the 2021 ASA Outstanding Statistical Applications Award]

25. Gayawan E., Fasusi OD, **Bandyopadhyay D**. Structured additive distributional zero augmented beta regression modeling of mortality in Nigeria, *Spatial Statistics* 2020; 35: 100415
26. Shin Y, Sun S and **Bandyopadhyay D**. Impact of Adolescent Obesity on Middle-Age Health of Women given data MAR, *Biometrical Journal* 2020; 62(7): 1702-1716
27. Zhang L and **Bandyopadhyay D**. A graphical model for skewed matrix-variate non-randomly missing data, *Biostatistics* 2020; 21(2): e80-e97
28. \*\*Li Y, **Bandyopadhyay D**, Xie F., and Xu Y. BAREB: A Bayesian repulsive biclustering model for periodontal data, *Statistics in Medicine* 2020; 39(16): 2139-2151
29. \*\*Jhuang A-T, Fuentes M, **Bandyopadhyay D** and Reich BJ. Spatiotemporal signal detection using continuous shrinkage priors, *Statistics in Medicine* 2020; 39(13): 1817-1832
30. #Xu J, **Bandyopadhyay D**, Chakraborty B, Mirzaei S and Michalowicz B. SMARTp: A SMART design for non-surgical treatment of chronic periodontitis with spatially-referenced and non-randomly missing skewed outcomes, *Biometrical Journal* 2020; 6(2): 282-310 [R package [SMARTp](#) available in CRAN; selected as a high-impact finding among NIH-funded research from NIDCR's *Center for Clinical Research*, and included in the Jan 2020 Director's Report to the National Advisory Dental and Craniofacial Research Council]
31. \*\*Bhingare A, Sinha D, Pati D, **Bandyopadhyay D** and Lipsitz SR. Semiparametric Bayesian regression modeling for skewed multivariate response, *Biometrics* 2019; 75(2): 528-538 [Won one of the Student Travel Award from the 2017 Society for Bayesian Statistical Sciences (SBSS) of the American Statistical Association]
32. \*\*Ordonez JA., **Bandyopadhyay D**, Lachos VH., Cabral CR. Geostatistical estimation and prediction for censored responses, *Spatial Statistics* 2018; 23: 109-123
33. ^Wu X, Guan T, Liu DJ, Leon-Novelo LG and **Bandyopadhyay D**. Adaptive-weight burden test for associations between quantitative traits and genotype data with complex correlations, *The Annals of Applied Statistics* 2018; 12(3): 1558-1582
34. Zhao W, Lian H and **Bandyopadhyay D**. A partially linear additive model for clustered proportion data, *Statistics in Medicine* 2018; 37(6): 1009-1030
35. \*\*Chernokhouva A, Hussein A, Nkurunziza S and **Bandyopadhyay D**. Bayesian inference in time-varying additive hazards model with applications to disease mapping, *Environmetrics* 2018; 29(5-6): e2478 [Special Issue celebrating 25<sup>th</sup> Anniversary of TIES, The International Environmetrics Society]
36. Cai B and **Bandyopadhyay D**. Bayesian semiparametric variable selection with applications to periodontal data, *Statistics in Medicine* 2017; 36(14): 2251-2264
37. **Bandyopadhyay D**, \*Galvis DM and Lachos VH. Augmented mixed models for clustered proportion data, *Statistical Methods in Medical Research* 2017; 26(2): 880-897

38. \*Lewis B, **Bandyopadhyay D**, DeSantis SM. and John MT. Augmented beta regression for periodontal proportion data via the SAS NLMIXED procedure, *Journal of Applied Probability and Statistics* 2017; 12(1): 49-66
39. Lan L, **Bandyopadhyay D** and Datta S. Nonparametric regression in clustered multistate current status data with informative cluster size, *Statistica Neerlandica* 2017; 71(1): 31-57 [Paper was highlighted in a virtual issue on "Statistics in HealthCare" by *Statistica Neerlandica*]
40. \*\*Galarza CE, Lachos VH. And **Bandyopadhyay D**. Quantile regression for linear mixed models: A stochastic approximation EM approach, *Statistics and Its Interface* 2017; 10(3): 471-482
41. #Jin I-H, Yuan Y and **Bandyopadhyay D**. A Bayesian hierarchical spatial model for dental caries assessment using non-Gaussian Markov random fields, *Annals of Applied Statistics* 2016; 10(2): 884-905
42. **Bandyopadhyay D** and Canale A. Nonparametric spatial models for clustered ordered periodontal data, *Journal of the Royal Statistical Society- Series C* 2016; 65(4): 619-640
43. **Bandyopadhyay D** and Jacome-Pumar A. Comparing conditional survival functions with missing population marks in a competing risks model, *Computational Statistics and Data Analysis* 2016; 95: 150-160
44. \*\*Matos LM, **Bandyopadhyay D**, Castro LM, Lachos VH. Influence assessment in censored mixed-effects models using the multivariate Student's-*t* distribution, *Journal of Multivariate Analysis* 2015; 141: 104-117
45. **Bandyopadhyay D**, Castro LM, Lachos VH and Pinheiro H. Robust joint nonlinear mixed-effects models for censored HIV viral loads with covariate measurement error, *Journal of Agricultural, Biological and Environmental Statistics* 2015; 20(1): 121-139
46. \*Schnell P, **Bandyopadhyay D**, Reich BJ, and Nunn ME. A marginal proportional hazards cure-rate model for spatial survival data, *Journal of the Royal Statistical Society - Series C* 2015; 64(4): 673-691
47. \*Parker AJ, **Bandyopadhyay D** and Slate E. An augmented spatial Beta regression model for periodontal proportion data, *Statistical Modeling: An International Journal* 2014; 14(6): 503-521
48. \*Galvis DM, **Bandyopadhyay D** and Lachos VH. Augmented mixed Beta regression models, with application to periodontal data, *Statistics in Medicine* 2014; 33: 3759-3771
49. Park J-H, **Bandyopadhyay D**. and Letourneau E. Examining deterrence of adult sex-crimes: A semiparametric intervention time-series approach, *Computational Statistics and Data Analysis* 2014; 69: 198-207
50. §Reich BJ, **Bandyopadhyay D** and Bondell H. A nonparametric spatial model for periodontal data with non-random missingness, *Journal of the American Statistical Association* 2013; 108: 820-831
51. \*\*Mustvari T, **Bandyopadhyay D**, Declerck D and Lesaffre E. A multilevel model for spatially-correlated binary data in the presence of misclassification: An application in oral health research, *Statistics in Medicine* 2013; 32(30): 5241-5259

52. \*\*Boehm L, Reich BJ and **Bandyopadhyay D**. Bridging conditional and marginal shapes for spatially-referenced binary data, *Biometrics* 2013; 69(2): 545-554. [This paper won the prestigious *John van Ryzin award* at the 2013 ENAR meetings of the IBS]
53. Nieto-Barajas LE and **Bandyopadhyay D**. A zero-inflated spatial gamma process model with applications to disease mapping, *Journal of Agricultural, Biological and Environmental Statistics* 2013; 18(2): 137-158
54. Cancho VG, **Bandyopadhyay D**, Louzada-Neto F and Yiqi B. The destructive negative binomial cure rate model with latent activation, *Statistical Methodology* 2013; 13: 48-68
55. \*\*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, *Clinical Trials* 2012; 9(3): 303-313
56. **Bandyopadhyay D**, Lachos VH, Dey DK and Castro LM. Skew-normal/independent linear mixed models for censored responses with applications to HIV viral loads, *Biometrical Journal* 2012; 54(3): 405-425
57. #Lachos VH, **Bandyopadhyay D** and Garay AM. Heteroscedastic nonlinear regression models based on scale mixtures of skew-normal distributions, *Statistics and Probability Letters* 2011; 81(8): 1208-1217
58. #Lachos VH, **Bandyopadhyay D** and Dey DK. Linear and non-linear mixed-effects models for censored HIV viral loads using normal/independent distributions, *Biometrics* 2011; 67(4): 1594-1604
59. \*\*VanMeter EM, Garrett-Mayer E and **Bandyopadhyay D**. Proportional odds model for dose finding clinical trial designs with ordinal toxicity grading, *Statistics in Medicine* 2011; 330(17): 2070-2080 [Won 2011 Society for Clinical Trials Student Presentation Award]
60. DeSantis S and **Bandyopadhyay D**. Hidden Markov models for zero-inflated Poisson counts with an application to substance use, *Statistics in Medicine* 2011; 30(14): 1678-1694
61. **Bandyopadhyay D**, Reich BJ and Slate EH. A spatial Beta-Binomial model for clustered count data on dental caries, *Statistical Methods in Medical Research* 2011; 20: 85-102
62. \*\*Li X, **Bandyopadhyay D**, Lipsitz S, Sinha D. Likelihood methods for binary responses of present components in a cluster, *Biometrics* 2011; 67(2): 629-635 [Won 2011 ENAR Distinguished Student Paper Award]
63. **Bandyopadhyay D**, Lachos VH, Abanto-Valle C and Ghosh P. Linear mixed models for skew-normal/ independent bivariate responses with applications to periodontal data, *Statistics in Medicine* 2010; 29(25): 2643-2655
64. Datta S, **Bandyopadhyay D**, Satten G. Inverse probability of censoring weighted *U*-statistics for right-censored data with applications to testing of hypothesis, *Scandinavian Journal of Statistics* 2010; 37(4): 680-700



65. **Bandyopadhyay D**, Sinha D, Lipsitz S and Letourneau E. Changing approaches of prosecutors towards juvenile repeated sex-offenders: a Bayesian evaluation, *The Annals of Applied Statistics* 2010; 4(2): 805-829
66. Reich B and **Bandyopadhyay D**. A latent factor model for spatial data with informative missingness, *The Annals of Applied Statistics* 2010; 4(1): 439-459
67. Abanto-Valle CA, **Bandyopadhyay D**, Lachos VH and Enriquez I. Robust Bayesian analysis of heavy-tailed stochastic volatility models using scale mixtures of normal distribution, *Computational Statistics and Data Analysis* 2010; 54: 2883-2898
68. Subramanian S, **Bandyopadhyay D**. Doubly robust semiparametric estimation for the missing censoring indicator model, *Statistics and Probability Letters* 2010; 80: 621-630
69. **Bandyopadhyay D** and Jacome-Pumar A. Nonparametric estimation of conditional cumulative hazards for missing population marks, *Australian and New Zealand Journal of Statistics* 2010; 52(1): 75-91
70. \*\*Lin L, **Bandyopadhyay D**, Lipsitz S and Sinha D. Association models for clustered data with binary and continuous responses, *Biometrics* 2010; 66(1): 287-293
71. Slate E and **Bandyopadhyay D**. An investigation of the MC-SIMEX method with application to measurement error in periodontal outcomes, *Statistics in Medicine* 2009; 28: 3523-3538
72. **Bandyopadhyay D**, Reich B and Slate E. Bayesian modeling of multivariate spatial binary data with applications to dental caries, *Statistics in Medicine* 2009; 28: 3523-3538
73. Subramanian S and **Bandyopadhyay D**. Semiparametric models for left truncation and right censoring with missing censoring indicators, *Statistics and Probability Letters* 2008; 78: 2572-2577
74. **Bandyopadhyay D** and Datta S. Testing equality of survival curves when population marks are missing, *Journal of Statistical Planning and Inference* 2008; 138: 1722-1732
75. Berenhaut K, Foley JD and **Bandyopadhyay D**. Maximization for inner products under quasi-monotone constraints, *Journal of Inequalities in Pure and Applied Mathematics* 2006; 7(5): 1-10
76. Berenhaut KS, **Bandyopadhyay D**. Monotone convex sequences and Cholesky decomposition of symmetric Toeplitz matrices, *Linear Algebra and its Applications* 2005; 403(1): 75-85
77. Chowdhury AS, Arabnia H and **Bandyopadhyay D**. 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

### **Clinical:**

1. ^Ke C, **Bandyopadhyay D**, Acunzo M and Winn R. Gene screening in ultra-high dimensional right-censored lung cancer data, *Onco* 2022; 2(4): 305-318

2. Gharai LR, Ovanez C, Goodman WC, Deng X, **Bandyopadhyay D**, Aboutanos MB, Parker MS. Minimal Aortic Injury (MAI) Detected on CT Angiography (CTA) During Initial Trauma Imaging: Single Academic Level 1 Trauma Center Experience, (Accepted), *AORTA – Official Journal of the Aortic Institute at Yale-New Haven Hospital* 2022+
3. #Al-Juhaishi T, Deng X, **Bandyopadhyay D** and Paul AK. Role of cytoreductive nephrectomy and targeted therapy in patients with sarcomatoid renal cell carcinoma: A population-based analysis using SEER database, *The Cureus Journal of Medical Science* 2022; 14(5): e25395
4. #Montefusco D, Jamil M, Maczis MA, Schroeder W, Harland M, Levi M, Ranjit S, Allegood J, Retnam R, **Bandyopadhyay D**, Spiegel S and Cowart A. Sphingosine Kinase 1 mediates sexual dimorphism in fibrosis in a mouse model of NASH, *Molecular Metabolism* 2022; 62: 101523
5. #Freudenberger DC, Deng X, Vudatha V, Riner AN, Herremans KM, **Bandyopadhyay D**, Fernandez LJ, Trevino JG. Racial disparities in cytoreductive surgery and hyperthermic intraperitoneal chemotherapy: Does aggressive surgical treatment overcome cancer health inequities?, *Frontiers in Oncology* 2022; 12:899488
6. Akinkugbe AA, Brickhouse TH, **Bandyopadhyay D**, Nascimento MM and Slade GD. Prepregnancy BMI, gestational weight gain and offspring caries experience: Avon Longitudinal Study of Parents and Children, *Plos One* 2022; 17(3): e0266247
7. Naavaal S, Garcia DT, Deng X and **Bandyopadhyay D**. Association between periodontal disease and oral cancer screening among US adults: NHANES 2011-2014, *Community Dentistry and Oral Epidemiology* 2022; 50(3): 216-224
8. Bhoopati P, Pradhan AK, Kumar A, Maji S, Mannagatti P, Deng X, **Bandyopadhyay D**, Sarkar D, Wang X-Y, Landry JW, Das SK, Emdad L and Fisher PB. Conversion of a non-cancer selective promoter into a cancer-selective promoter, *Cancers* 2022; 14: 1497
9. Aqbi HF, Mirshahi F, Manjili SH, Saneshaw M, **Bandyopadhyay D**, Dozmorov M, Benson Z, Khosla A, Pokkalla H, Mountain V, Wack K, Resnick M, Beck AB, Carrasco-Zevallos OM, Wapinski I, Idowu MO, Sanyal AJ, Manjili MH. Distinct hepatic immunological patterns are associated with the progression or inhibition of hepatocellular carcinoma, *Cell Reports* 2022; 38(9): 110454
10. Zhou L, Pei X, Zhang Y, Ning Y, Li L, Hu X, Chalasani SL, Sharma K, Nkwocha J, Yu J, **Bandyopadhyay D**, Sebti SM, Grant S. Chk1 inhibition potently blocks STAT3 tyrosine705 phosphorylation, DNA binding/transcriptional activity, and activation of downstream targets in human myeloma cells, *Molecular Cancer Research* 2022; 20(3): 456-467
11. #Sevdalis AE, Alex A, Simpson MH, **Bandyopadhyay D**, Deng X, and McGuire KP. The value of Tyrer-Cuzick vs. Gail risk modeling in predicting benefit from screening MRI in breast cancer, *European Journal of Breast Health* 2021; 18(1): 79-84
12. **Bandyopadhyay D**, Hilden P, Pati D, Fernandes J, Russell SL, Fellows JL, Nagarajan R. Correlated tooth-level caries status in a Type-2 diabetic Gullah population, *Modern Approaches in Dentistry and Oral Health Care* 2021; 5(1): 441-447

13. Xie J, Cho H, Lin BM, Pillai M, Heimisdottir LH, **Bandyopadhyay D**, Zou F, Roach J, Divaris K and Wu D. Improved metabolite prediction using microbiome data-based elastic net models, *Frontiers in Cellular and Infection Microbiology, section Microbiome in Health and Disease* 2021; 11, 734416 doi: 10.3389/fcimb.2021.734416
14. Bonikowske AR., Carpenter KC., Stovitz S., **Bandyopadhyay D**, Pereira MA. And Lewis BA. Acute Effect of Height-Adjustable Workstations on Blood Glucose Levels in Women with Impaired Fasting Glucose Levels while Working: A Pilot Study, *Translational Journal of the American College of Sports Medicine* 2021; 6(4): e000171
15. Tyutyunyuk-Massey L, Sun Y, Dao N, Ngo H, Dammalapati M, Vaidyanathan A, Singh M, Haqqani S, Haueis J, Finnegan R, Deng X, Kirberger S, Bos P, **Bandyopadhyay D**, Pomerantz W, Pommier Y, Gewirtz D, and Landry J. Autophagy dependent sensitization of triple negative breast cancer models to topoisomerase II poisons by inhibition of the nucleosome remodeling factor, *Molecular Cancer Research* 2021; 19(8):1338-1349
16. \*\*Sutton AL, Felix AS, **Bandyopadhyay D**, Retnam R, Hundley WG and Sheppard VB. Cardioprotective Medication Use in Black and White Breast Cancer Survivors, *Breast Cancer Research and Treatment* 2021; 188(3):769-778
17. Sullivan SA, Hawkins G, Zhao X, Jo H, Hayes N, Deng X, **Bandyopadhyay D**, Bae-Jump VL, Rossi EC. Genomic profiling of endometrial cancer and relationship with volume of endometrial cancer disease spread, *Gynecologic Oncology Reports* 2021; 36: 100720
18. Holkova B, Shafer D, Yazbeck V, Dave S, Bose P, Tombes MB, Shrader E, Wan W, **Bandyopadhyay D**, Weir C, Collins E, Garnett A, Kmiecik M, Roberts JD, Garcia-Manero G, and Grant S. Phase-I Study of Belinostat (PXD-101) and Bortezomib (Velcade, Ps-351) in Patients with Relapsed or Refractory Acute Leukemia and Myelodysplastic Syndrome, *Leukemia and Lymphoma* 2021; 62(5): 1187-1194
19. Jecrois AM, ^Dcona M, Deng X, **Bandyopadhyay D**, Grossman SR, Schiffer CA, Royer WE. CryoEM structure of CtBP2 confirms tetrameric architecture, *Structure* 2021; 29(4): 310-319
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## PEER REVIEWED BOOK CHAPTERS

1. Wang T, **Bandyopadhyay D**, and Sinha S. Efficient estimation of the additive hazards model for interval-censored data, (Accepted), Springer Volume titled *Emerging Topics in Modeling Interval-Censored Survival Data*, edited by (Tony) Jianguo Sun and (Din) Ding-Geng Chen, 2022+
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## BOOK REVIEWS, OTHER PUBLICATIONS

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## SOFTWARE [\* = student/mentored fellow]

1. \*Choi T, Choi S and **Bandyopadhyay D**: R package rankIC on GitHub, implementing rank-based estimation for partially interval-censored data
2. \*Lee I, Sinha D, Mai Q, Zhang X and **Bandyopadhyay D**: R package BSTN on GitHub, modeling skewed tensor responses
3. \*Lee I, Sinha D, Mai Q and **Bandyopadhyay D**: R package BSTT on GitHub, modeling a class of skewed tensor responses, including skew-normal, and skew- $t$ .
4. \*Wang T, He K, Ma W, **Bandyopadhyay D** and Sinha S: R package MMGOR on GitHub, MM algorithm for GOR modeling of clustered current status data
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11. \*Wang P, Ma TF, **Bandyopadhyay D**, Tang Y and Zhu J: R package `clordr` on CRAN, composite likelihood inference under spatial replications
12. \*Xu J, **Bandyopadhyay D**, Chakraborty B, Mirzaei S and Michalowicz B: R package `SMARTp` on CRAN, implements sample size/power calculations for the first SMART design for periodontal responses
13. \*Ordonez JA, **Bandyopadhyay D**, Lachos VH and Cabral CR: R package `CensSpatial` on CRAN, geostatistical estimation/prediction for censored responses
14. \*Galarza CE, Lachos VH and **Bandyopadhyay D**: R package `qrLMM` on CRAN, implements a SAEM algorithm for quantile regression in mixed models
15. Lachos VH, **Bandyopadhyay D** and \*Garay AM: R package `n1msn` on CRAN, implements non-linear regression under scale mixtures of skew-normal densities
16. \*VanMeter EM, Garrett-Mayer E and **Bandyopadhyay D**: R package `ordcrm` on CRAN, implements proportional odds and continuation ratio models under the CRM (Phase-I) framework
17. \*Lin L, **Bandyopadhyay D**, Lipsitz S and Sinha D: SAS macro `m1` available in GitHub, implements association models for clustered binary and continuous responses
18. \*Lewis B, **Bandyopadhyay D**, DeSantis S and John MT: SAS macro `Beta_Regression` available in GitHub, implements augmented and non-augmented beta regression modeling

#### MANUSCRIPTS UNDER REVIEW/REVISION

1. \*\*Anyaso-Samuel S, **Bandyopadhyay D** and Datta S. Pseudo-value regression of clustered current status data with informative cluster size, (Under Review), *Statistical Methods in Medical Research*

2. Ke C, **Bandyopadhyay D** and Sarkar D. Gene screening for prognosis of non-muscle-invasive bladder carcinoma under competing risks endpoints, (Under Revision), *Cancers*
3. Zhao W, **Bandyopadhyay D** and Lian H. Single-index mixed-effects model for asymmetric bivariate clustered data, (Under Review), *Statistics in Biosciences*
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