

## CURRICULUM VITAE

July 01, 2019

**Amita K. Manatunga**

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Department of Biostatistics  
Rollins School of Public Health  
Emory University  
1518 Clifton Road, N.E.  
Atlanta, GA 30322  
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### RESEARCH INTERESTS:

Survival analysis, Multivariate survival data, Frailty models  
Inter-rater Agreement Studies  
Longitudinal and Survival models for Exposure data  
Methods for Mental Health and Epidemiological studies

### EDUCATION:

1990 Ph.D., Statistics, University of Rochester, New York  
1986 M.A., Statistics, University of Rochester, New York  
1984 M.Sc., Mathematical Statistics, Purdue University, Indiana  
1982 Diploma in Applied Statistics, University of Colombo, Sri Lanka  
1978 B.Sc. (First Class Honors), Physics and Mathematics, University of Colombo, Sri Lanka

### PRESENT POSITIONS:

2/2004-Present Professor, Department of Biostatistics, Rollins School of Public Health, Emory University, Atlanta, GA  
2/2002-Present Principal Statistician, Atlanta Clinical and Translational Science Institute (ACTSI), Emory University, Atlanta, GA

### PAST PROFESSIONAL EXPERIENCE:

9/1997-2004 Associate Professor, Department of Biostatistics, Rollins School of Public Health, Emory University, Atlanta, GA  
2/1994-9/1997 Assistant Professor, Department of Biostatistics, Rollins School of Public Health, Emory University, Atlanta, GA  
1994-2005 Leading Statistician (Core-leader), General Clinical Research Center, School of Medicine, Emory University, and Atlanta, GA.  
Administrative Responsibilities: Supervision of a Informatics Manager and a Master-Level Biostatistician, General Clinical Research Center, School of Medicine, Emory University, Atlanta, GA  
3/1990-2/1994 Assistant Professor, Division of Biostatistics, Department of Medicine, Indiana University, Indiana  
8/1989-3/1990 Lecturer, Division of Biostatistics, Department of Medicine, Indiana University, Indiana

- 8/1984-8/1989 Instructor/Statistical Consultant/Teaching Assistant, Department of Statistics and Division of Biostatistics, University of Rochester, New York
- 8/1982-8/1984 Teaching Assistant, Department of Statistics, Purdue University, Indiana
- 8/1978-8/1982 Instructor in Mathematics and Statistics, University of Colombo, Sri Lanka

**HONORS:**

- 2018 Teaching Award, Department of Biostatistics and Bioinformatics
- 2015 The Thomas Sellers, Jr. Award, Rollins School of Public Health of Emory University
- 2012 Academic Leadership Program 2012, Emory University
- 2007 Atlantik-Brücke Fellow, Emory University
- 2004 American Statistical Association Fellow
- 1997 Delta Omega Society
- 1996 NIH FIRST AWARD
- 1988-1989 ASA membership awarded by the University of Rochester
- 1984-1989 Graduate Student Fellowship from Purdue University and University of Rochester
- 1978 Awarded First Class Honors, Bachelors Degree

**AWARDS: (Research Papers):**

- 2017 Advisor for Hanna Mar, MSPH Sheppard Award nominee 2017, Rollins School of Public Health. Investigating Heterogeneous Associations in Fear Responses among PTSD Patients Using Quantile Regression
- 2016 Honored as one of the top 10 publications in American Journal of Epidemiology for the year of 2015. Mitchell EM, Lyles RH, Manatunga AK, and Schisterman EF. Semiparametric regression models for a right-skewed outcome subject to pooling. *Am J Epidemiol.* 2015;181(7):541–548.
- 2010 Advisor for John Rice, MSPH, Sheppard Award Winner 2010, Rollins School of Public Health. Title of the thesis: Statistical Models for Microbial Concentration Data Incorporating Detection Limits
- 2009 Honorable Mention for the Theoretical Paper Category for the 2009 CDC and ATSDR Statistical Science. John M. Williamson, Hae-Young Kim, Amita Manatunga and David G. Addiss. Modeling survival data with informative cluster size. *Statist. Med.* 2008; 27:543–555
- 2003 Statistical Computing and Graphics Section of the American Statistical Association-Travel Award for Feng Gao for the paper titled “Estimation of Baseline Hazard Function with Time-dependent Covariates Under Proportional Hazards Structure. Joint Statistical Meeting, San Francisco, CA. He also received the ENAR Student Travel Award for the same paper, Eastern North American Region Biometrics Meeting (ENAR), Tampa, FL.
- 2001 ENAR Student Paper Award for Dionne Price for the paper titled “A Bivariate Survival Model with Cured Fractions”. Eastern North American Region Biometrics Meeting, Charlotte, NC.
- 1999 Best Invited Paper (with Walter Ambrosius), Section on Teaching Statistics in the Health Sciences, Joint Statistical Meeting, Baltimore, MD.

1998 ENAR Student Paper Award for Bindu Viswanathan for the paper titled "Assessing Time Dependent Association Using Frailty Models", Eastern North American Region Biometrics Meeting, Pittsburgh, PA.

#### **EDITORIAL SERVICE:**

2008-2015 Associate Editor, Biometrics  
2001-present Associate Editor, Life Time Data Analysis  
2004-present Associate Editor, Sri Lankan Journal of Applied Statistics  
2003-2005 Associate Editor, Statistics in Medicine

#### **PROFESSIONAL AFFILIATIONS:**

American Statistical Association  
Biometrics Society  
Royal Statistical Society  
Institute of Mathematical Statistics  
International Society of Bayesian Analysis

#### **PROFESSIONAL SERVICES (NATIONAL AND INTERNATIONAL):**

##### NIH Study Sections:

2009-2013 Member, Biostatistical Methods and Research Design Study Section [BMRD]  
2010-2013 Member, Mental Health Services in Mental Health Specialty Setting (SRSP) Study Section

##### Appointments (Invited):

2014-2016 Education Committee, Eastern North American Region Biometrics Meeting (ENAR)  
2013 -2014 Member, Nomination Committee, Eastern North American Region Biometrics Meeting (ENAR)  
2010 January Member, Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Enhancing rehabilitation Research in the South (ERRIS), Charlottesville, Virginia  
2009 April Member (Panel of three members), Review of Department of Biostatistics at Tulane School of Public Health and Tropical Medicine, Tulane University  
2007-2008 Member, Program Committee for the Conference of the International society for Clinical Biostatistics  
2007 Second Examiner, Applied Statistics Masters Degree (MSc), University of Colombo, Sri Lanka  
2007 Chair, Gertrude M. Cox Scholarship for Women in Statistics Award Committee, American Statistical Association  
2007-2008 Member, David Byar Award Committee, American Statistical Association  
2005 Member, Nomination Committee, Eastern North American Region Biometrics Society (ENAR)  
2004 Chair, American Statistical Association Committee on Women in Statistics  
2003 Vice-Chair, American Statistical Association Committee on Women in Statistics  
2002-2006 Member, Gertrude M. Cox Scholarship for Women in Statistics Award

Committee, American Statistical Association  
 2000-2003 Chair, Diversity Committee, Eastern North American Region Biometric Society (ENAR)  
 2000-2003 Member, American Statistical Association Committee on Women in Statistics  
 2000-2004 Member, President's Commission of the Status of Women at Emory University  
 1999-2001 Member, Eastern North American Region Biometrics Society (ENAR), Regional Advisory Board  
 1999 Member, Review of research agenda for the Epidemiology Program Office, CDC

Appointments (elected by the Society):

2014-2016 Member, Advisory Committee on Continuing Education of the American Statistical Association  
 2012 June Co-Chair, Systems Science Methodologies to Protect and Improve Population Health [SEP], NIH  
 2013 Chair, Advisory Committee on Continuing Education of the American Statistical Association  
 2010-2013 Member, Advisory Committee on Continuing Education of the American Statistical Association.  
 2005-2007 Council of Sections Representative for Biometrics Section, American Statistical Association  
 2005 Chair, Selection Committee of Nathan Mantel Award 2005, Section on Statistics in Epidemiology, American Statistical Association  
 2004 Member, ENAR Program Committee for Meeting 2004  
 2004 Member, ENAR Regional Committee (RECOM)  
 2000-2002 Treasurer, Association of General Clinical Research Center Statisticians  
 2002-2004 Program Chair, Epidemiology Section, American Statistical Association

Grant Reviews:

2019 Feb. Ad-hoc Member, Biostatistical Methods and Research Design Study Section, NIH,  
 2018 Feb Member, Statistics Panel C: Methods and Biomedical Applications, NSF.  
 2017 Feb. Adhoc Member, Biomedical Computing and Health Informatics Study Section [BCHI]  
 2017 Feb Grant Reviewer, U.S.-Israel Binational Science Foundation  
 2016 June Adhoc Member, Mental Health Services in Mental Health Specialty Setting (SRSP) Study Section, NIH.  
 2016 Jan. Member, ZRG1 CB-W (50) R - RFA-GM-16-003: Maximizing Investigators' Research Award for New and Early Stage Investigators (R35), NIH.  
 2013-2014, SpringMerit Review Panel for Clinical Trails-A (CLNA) Veterans Health Administration.  
 2014 Jan. ,Adhoc Member, Mental Health Services in Mental Health Specialty Setting (SRSP) Study Section, NIH.  
 2014 Adhoc Member, Biostatistical Methods and Research Design (BMRD) Study Section, NIH.

- 2014 March, Adhoc Member, Systems Science Methodologies to Protect and Improve Population Health (SRP).
- 2014 July, Adhoc Member, Kidney, Nutrition, Obesity and Diabetes [KNOD].
- 2009 June, Adhoc Member, Biostatistical Methods and Research Design BMRD, National Institutes of Health.
- 2009 June, Member, Research Education, Training and Career Development (RETCD) K12 Program supported by ACTSI.
- 2009 Feb., Adhoc Member, Study Section on the RFA, Mental Health needs of returning combat vets, National Institutes of Health.
- 2006 Oct. Adhoc member, Biostatistical Methods and Research Design BMRD, National Institutes of Health.
- 2005 Nov, Member, Clinical Cardiovascular Science (CCVS) Study Section, National Institutes of Health.
- 2004, 2005 Member, University Research Committee, Emory University.
- 2004 Nov, Member, Clinical Cardiovascular Science (CCVS) Study Section, National Institutes of Health.
- 2003 Member, Clinical Cardiovascular Science (CCVS) Study Section, National Institutes of Health.
- 2002 Member, Clinical Cardiovascular Science (CCVS) Study Section, National Institutes of Health.
- 2001 (March, July, December), Member, Clinical Cardiovascular Science (CCVS) Study Section, National Institutes of Health.
- 2001 June, Member, National Institute of Diabetes and Kidney Diseases Initial Review Group, NIDDK.
- 2000 (March, July, December), Member, Clinical Cardiovascular Science (CCVS) Study Section, National Institutes of Health.
- 2000 Aug. Member, Special Emphasis Panel, Optimizing Strategies to provide STD Partner Services, Centers for Disease Control and Prevention.
- 2000 May, Member, National Institute of Neurological Disorders and Stroke Special Emphasis Panel.
- 1999 July, December Member, Clinical Cardiovascular Science Special Emphasis Panel, National Institutes of Health.

1999 August Member, Disease, Disability and Injury Prevention and Control Special Emphasis Panel, Centers for Disease Control and Prevention.

1996, Member, Osteoporosis Research Program Peer Review Panel, Department of Army.

### Professional Workshops

2005 (March), Participated in the Reward of Mathematics Panel, Infinite Possibilities Conference, Mathematics Department at Spelman College, 2005.

2003 (March), Panelist, Career of Public Health Professionals, Association of Black Public Health Students in the Rollins School of Public Health, Atlanta, GA.

2002 (March), Organizer, Diversity Workshop, Eastern North American Region Biometrics Meeting (ENAR), Washington, DC.

2001 (November), Presenter, Statistics in Academia Section of Mini STAT Fest: Conference for Undergraduates, Hosted by Department of Mathematics, Spelman College, Atlanta, GA.

2000-2105 (March), Organizer, Diversity Workshop, Eastern North American Region Biometrics Meeting (ENAR), Chicago, IL.

### Professional Meeting Organizations

2014 June Attended a workshop on Recruiting and Retaining Graduate Students in the Statistical Sciences and Applied Mathematics organized and invited by Statistical and Applied Mathematical Sciences Institute (SAMSI).

2008 Participated as a judge in the Intel Science and Engineering Fair (ISEF).

2001 Member, Local Arrangement Committee, Joint Statistical Meetings (JSM), Atlanta, GA.

2001 Chair, Local Arrangement, Association of GCRC Statisticians

1998 Chair, Local Arrangement Committee, Eastern North American Region Biometrics Meeting (ENAR), Atlanta, GA.

### Professional Meeting Chairing

2005 Organized and Chaired an invitee session titled "Women in Statistics: Working to Improve Human Wellbeing".

2004 Chair, Contributed Session, Joint Statistical Associations Meeting, San Francisco, CA.

2003 Chair and Organizer, Special Contributed Session titled "Methods to Reduce the Impact of Nuisance Parameters", Eastern North American Region Biometrics Meeting (ENAR).

2001 Chair and Organizer, Round table discussions titled "Teaching Statistics in the Health Sciences" in the Joint Statistical Associations Meeting, Atlanta, GA.

2000 Organizer and Chair of the session titled "Assessing the familiar Aggregation of Disease – Recent Developments", Biometrics Society (ENAR) Meeting, Chicago, IL.

1999 Chair and Organizer, Special Contributed Session, Joint Statistical Association Meetings, Baltimore, MD.

1995 Chair, Contributed Session, Joint Statistical Associations Meeting, Orlando, FL.

### **CURRENT RESEARCH GRANTS:**

NIDDK, Development and Assessment of Decision Supporting System for Renal Studies (PI:

Amita K. Manatunga) 9/15/2016-7/31/2021, 15% effort. Principle Investigator

NIMH, Statistical methods for analyzing complex, multi-dimensional data from cross-sectional and longitudinal mental health studies (MPI: Amita K. Manatunga., Limin Peng, Ying Guo.), 7/16/2019 – 4/30/2024, \$3,070,305, 25% effort, Multiple Principle Investigator

WHASC, Emory, Synergy Award, Development and Assessment of a Prediction Algorithm for Smartphone Application (PASA) for a Non-invasive Measurement of Hemoglobin Levels in Infants. (MPI: Manatunga, Josephson, Lam), 100,000. 9/1/2019-8/31/2020, Multiple Principle Investigator

Georgia CTSA, Biostatistics, Epidemiology and Research Design (BERD) A pilot investigation of the development of a prediction algorithm for a non-invasive measurement of Hemoglobin Levels among adults (PI). 20,000, 7/1/2019-6/30/2019, Principle Investigator

NIH/NIHLBI, Method Development for Survival Dynamic Regression in Chronic Disease Research, (PI: Limin Peng), Co-investigator, 08/06/12-04/30/22, 10%, Co-Investigator,

NIH, Advance Care Planning for Dialysis Patients and Surrogates: An Effectiveness Implementation Trial of SPIRIT. (PI: Song, Mi-Kyung), Co-investigator, 10/01/17-03/31/22, 10%

NIH, \$491,301 (annual direct costs), Brominated Flame Retardants: Multigenerational Endocrine Disruption, (Michele Marcus, PI), Co-Investigator, 5% effort

NIH, Georgia Clinical and Translational Science Institute (ACTSI), (Robert Taylor, PI), Biostatistician, 09/22/17-06/30/22, 25% effort

NIH, Georgia Clinical and Translational Science Institute (ACTSI-EDU), (Robert Taylor, PI), Co-Investigator, 5% effort

NIH, Cycles of Social Contingency in Autism: Pivotal Transitions that Shape Infant Brain-Behavior Development in Human & Model Systems, (PI: Kiln) Co-Investigator, 09/04/12-07/31/22, 2.5%

NIH, Multifactorial causes of fertility disparities among female cancer survivors, (Penny Howard, PI), 2.5%

US DEPT OF VETERANS AFFAIRS, VA IPA Research and Development Program, PI: Amita K. Manatunga, 07/01/15-06/30/19, 5%

NIH, Collaborative Research and Action: Empowering an Exposed Community, (PI: Michele Marcus), Co-investigator, 05/01/16-04/30/21, 5%

NI/NIHLBI Atlanta Summer Institute for Research Education in Biostatistics (PI: Lance Waller), Co-Investigator, 8/01/16-07/31/19

NIH, Deciphering the Treatment Risks: a Decision Support Tool for Transplant Candidates (PI: Jennifer Gander), Mentor

#### **PAST FUNDED RESEARCH GRANTS:**

NIMH, Method Development of Agreement Measures and Applications in Mental Health (MPI:

Amita K. Manatunga., Limin Peng, Ying Guo.), 9/26/2013 to 6/30/2018, 25% effort

NIH, Method Development of Agreement Measures and Applications in Mental Health (Amita K. Manatunga, PI), 4/1/2008 to 3/31/2013., Principal Investigator, 25%

NIEHS/NIH, \$760,000, Analytic Methods: Environmental/Reproductive Epidemiology (MPI : Amita K. Manatunga, Robert Lyles.), 8/1/08-6/30/14, Multiple Principal Investigator, 30% effort

NIEHS/NIH, \$760,000, Analytic Methods: Environmental/Reproductive Epidemiology (Amita K. Manatunga, PI), 8/1/03-6/30/8, Principal Investigator, 30% effort.

NIH, \$539,501, Statistical Methods for Survival Data via Frailty Models (Amita K. Manatunga, Ph.D., P.I.), 2/1/96-1/31/02, Principal Investigator, 50% effort.

Emory URC/ACTSI, Methods developments for evaluating and development of instruments in clinical studies (Amita Manatunga), Principal Investigator, 25,000.

Emory URC, \$24,500, Development of Statistical Prediction Methods for Diagnosing Kidney Obstruction (Amita K. Manatunga, PI.), 6/1/06-06/30/07, Principal Investigator, 25,000

Emory URC, \$29,941, Statistical Methods for Mental Health Research Data (Amita Manatunga, P.I.), 1/1/02-02/18/03, Principal Investigator.

NIH, \$237,500, Diversity Workshop at ENAR (PI: Scarlett Bellamy, University of Pennsylvania) 02/01/03 – 01/31/08, Co-Investigator.

NIH, \$255,408 (annual direct costs), Mechanisms of Intestinal Tumorigenesis, (Vincent Yang, PI), Co-Investigator, 3% effort

NIH, \$237,045 (annual direct costs), Endothelial Hyperpolarization in Humans, (Arshed Quyyumi, PI), Co-Investigator, 7.50% effort

NIH, \$388,521 (annual direct costs), The Emory-Morehouse Partnership to Reduce CV Disparities (The META-Health Study), (Arshed Quyyumi, PI), Co-Investigator, 5% effort.

NIH, \$97,650 (annual direct costs), Markers of Thermoglycemic Remission In Obese Diabetics, (Guillermo Umpierrez, PI), Biostatistician, 2.5% effort.

NIH/NIDDK, \$150,000 (annual direct costs), Plasma Proteome Profiling of Insulin Resistance, (Nana Gletsu, PI), Co-Investigator, 2% effort.

NIH, Decision Support Systems for MAG3 Renography, (Andrew Taylor, PI), Co-Investigator, 20% effort

NIH, \$866,100 (annual direct costs), Phase II Study: Mobilization of Progenitor Cells in Peripheral Arterial Disease, (Arshed Quyyumi, PI), Co-Investigator, 15% effort

NIMH/NIH, \$1,900,000, Depression Type 2 Diabetes in Urban African Americans (Dominique Mussleman, M.D., P.I.), 7/18/03-4/30/08, Co-Investigator, 15% effort.

NIA/NIH, \$6,800,066, General Clinical Research Center at Emory School of Medicine (Thomas Lawley, M.D., P.I.), 12/1/00-11/30/09, Principal Statistician, 30% effort.



NIEHS/NIH, \$1,339,448, The Michigan PBB Cohort 30 Years Later: Endocrine Disruption (Michele Marcus, P.I.), 9/30/02-7/31/08, Co-Investigator, 11% effort.

NIH, \$284,382 (annual direct costs), Clinical Research Curriculum Award (Henry Blumberg, PI), 6/1/99-5/3/10, Co-Investigator, 5% effort

NIH, \$4,809,291, Colony Stimulating Factor Therapy for Claudication (Arshed Quyyumi, M.D., Ph.D., P.I.), 9/30/03-9/29/08, Co-Investigator, 10% effort.

NIMH/NIH, \$1,362,420 INF-alpha-Induced Depression: Pathophysiology and Treatment (Andrew Miller, M.D., PI), 7/15/00-6/30/04, Co-Investigator, 15% effort.

NIHLBI/NIH, \$1,764,726, Depression, Epinephrine, Serotonin and Platelet Function (Dominique Mussleman, M.D., P.I.), 2/4/02-1/31/06, Co-Investigator, 15% effort.

NIH, \$1,292,000, Decision Support Systems for Mag 3 Renography (Andrew Taylor M.D., P.I.), 9/1/02-8/31/06, Co- Principal Investigator, 14% effort.

NIH, \$5,650,586, Clinical Research Curriculum Award at Emory (David Stephens, P.I.), 6/1/99-5/31/04, Course Director

NIH, \$3,144,800, Vaccine Induced Immunity in the Young and Aged: Cooperative Center for Translational Research on Human Immunology and Biodefense (PI: Rafi Ahmed, Ph.D.), Biostatistics Core A, Principal Investigator (Amita K. Manatunga)

CDC, \$4,139, Tuberculosis Clinical Trials- IPA Agreement (Amita K. Manatunga, Ph.D., P.I.), 9/1/02-12/31/02, Principal Investigator, 10% effort.

NIH, \$678,556, Depression as a Risk Factor for Ischemic Hearth Disease (Dominique Musselman, M.D., P.I.), 1/1/97-1/1/02, 5% effort.

NIH, \$2,034,400, Progenitor Cell Therapy for Intermittent (Arshed Quyyumi, M.D., Ph.D., P.I.), 7/1/03-6/30/07, Co-Investigator, 10% effort.

NIH, \$9,849,096, General Clinical Research Center at Emory School of Medicine (Thomas Lawley, M.D., P.I.), 2/1/94-11/30/00, Biostatistician, 40% to 50% effort

NIH, \$129,279, Cancer Center Planning Grant at Emory Winship Cancer Center (Howard Ozer, M.D., P.I.), 2/1/94-3/31/96, Biostatistician, 25% effort.

NIH, \$837,826, Blood Pressure Control in Juveniles, Indiana University (Howard Pratt, M.D., P.I.), 4/5/91-1/15/94, Co-Investigator.

NIA, \$982,560, Clinical Pharmacology of NSAIDS in Elderly, Indiana University (D. Craig Brator, M.D., P.I.), 9/1/89-1/15/92, Co-Investigator.

NIH/NIADDK, \$6,695,100, Diabetes Research and Training Center, Indiana University (Charles Clark, Jr., M.D., P.I.), 9/1/89-1/15/92, Co-Investigator.

NIH/NIA, \$5,228,018, Program Project: Some Determinants of Bone Mass in the Elderly, Indiana University (C. Conrad Johnston, Jr., M.D., P.I.), 12/1/92-1/15/94, Co-Investigator.

NIH, \$1,843,960, General Clinical Research Center at Indiana University (Doris Merritt, M.D., P.I.), 12/1/89-12/31/90, Biostatistician.

## BIOSTATISTICS CONSULTING CENTER:

1994-2000 Consulting with investigators in Biochemistry, Nuclear Medicine, Hypertension, Orthopedics, Cardiovascular Diseases, and Infectious Disease

## PUBLICATIONS (Referred):

\*denotes Dr. Manatunga's Ph.D. student and Post Doctorial students.

### Statistical Research:

128. \*Chang, C., Jang, J. H., **Manatunga, A. K.** and Long, Q. (2019). A latent Bayesian class model to predict kidney obstruction in the absence of gold standard. Accepted, Journal of American Statistical association
127. Wei B., Dai T., Peng L., Guo Y, **Manatunga A. K.** (2019) A new representation of broad sense agreement. Statistics and Probability Letters. Accepted.
126. Dane R. Van Domelen, Emily M. Mitchell, Neil J. Perkins, Enrique F. Schisterman, **Amita K. Manatunga**, and Robert H. Lyles. (2019) Gamma models for estimating odds ratio for skewed biomarker measured in pools and subject to errors. Accepted.
125. \*Qiu, Zhiping, Peng, Limin, **Manatunga, Amita**, Guo, Ying, (2019). A smooth non-parametric approach to determining cut-points of a continuous scale. Computational Statistics & Data Analysis, Elsevier, vol. 134(C), pages 186-210.
124. \*Jang JH, Peng L, **Manatunga AK.** (2019) Assessing alignment between functional markers and ordinal outcomes based on broad sense agreement. Biometrics. PubMed PMID: 30998261.
123. \*Jang JH, **Manatunga AK**, Taylor AT, Long Q. Overall indices for assessing agreement among multiple raters (2018). Stat Med.10;37(28):4200-4215. PubMed PMID: 30062738
122. Dane R. Van Domelen, Emily M. Mitchell, Neil J. Perkins, Enrique F. Schisterman, **Amita K. Manatunga**, and Robert H. Lyles.(2018) Logistic regression with a continuous exposure measured in pools and subject to errors. . *Statistics in Medicine*, Vo 37,27, 4007-40021.
121. \*Rahman, A. F., **Manatunga, A.**, Guo, Y., Peng, L., Warnock, M., Ressler, K. J., & Jovanovic, T. (2018). A latent class analysis of PTSD symptoms among inner city primary care patients. *Journal of psychiatric research*, 98, 1-8.
120. \* Liu S, **Manatunga AK**, Peng L, Marcus M. (2017) ) A Joint Modeling Approach for Multivariate Survival Data with Random Length, Biometrics. 2017 Jun;73(2):666-677
119. \*Rahman, F.A., Peng, L., **Manatunga, A.K.** and Guo, Y. (2017). Nonparametric Regression Method for Broad Sense Agreement. *Journal of Nonparametric Statistics*, 29 (2017), no. 2, 280–300.
118. \*Dai, T., Guo, Y., Peng, L., and **Manatunga, A.K.** (2018). A Local Agreement Pattern Measure Based on Hazard Functions for Survival Outcomes. *Biometrics*, 74 (1), 86-99.

117. Peng, L., **Manatunga, A.K.**, Wang, M., Guo Y. and Rahman AF (2016). A general approach to categorizing a continuous scale according to an ordinal outcome. *Journal of Statistical Planning and Inference*, May 1;172:23-25
116. Sun, X., Peng, L., **Manatunga, A.K.** and Marcus, M. (2016). Quantile regression analysis of censored longitudinal data with irregular outcome-dependent follow-up. *Biometrics* 72, 64-73
115. Mitchell EM, Lyles RH, **Manatunga A.K.**, Schisterman EF. Semiparametric regression models for a right-skewed outcome subject to pooling. *Am J Epidemiol.* 2015 Apr 1;181(7):541-8. doi: 10.1093/aje/kwu301. Epub 2015 Mar 3.
114. Mitchell, E.M., Lyles, R.H., **Manatunga, A.K.**, Perkins, N.J., Schisterman, E.F. A Highly Efficient Design Strategy for Regression with Outcome Pooling. *Statistics in Medicine* 33, 5028-5040, 2014. PMID: PMC4225004
113. Guo Y, Li R, Peng L and **Manatunga A.K.** (2013). A new agreement measures based on survival processes, *Biometrics*, 69(4): 874-82.
112. Mitchell, E. M., Lyles, R. H., **Manatunga, A. K.**, Danaher, M., Perkins, N. J. and Schisterman, E. F. (2014), Regression for skewed biomarker outcomes subject to pooling. *Biometrics*, 70: 202–211. doi: 10.1111/biom.12134
111. Peng, L., Li, R., Guo, Y., and **Manatunga, A. K.** (2011) A framework for assessing the broad sense agreement between ordinal and continuous measurements. *Journal of the American Statistical Association* 106, 1592-1601.
110. \*Blackstock AJ, **Manatunga A.K.**, Park Y, Jones DP, Yu T. (2011) Clustering based on periodicity in high-throughput time course data. *Stat. Anal. Data. Min.* 4(6):579-589.
109. \*Bao J, **Manatunga A.**, Binongo JNG, Taylor A (2011) Key Variables for interpreting MAG3 diuretic scans: development and validation of a predictive model. *AJR*; 197:325-333
108. **Manatunga A.**, Binongo JNG, Taylor AT, (2011) Computer-aided diagnosis of renal obstruction: utility of log-linear modeling versus standard ROC and kappa analysis, *European Journal of Nuclear Medicine and Medical Imaging Research*, 1:5.
107. \*Bao J, **Manatunga A.**, Binongo JNG, Taylor AT, "Key Variables for Interpreting MAG3 Diuretic Scans: Development and Validation of a Predictive Model," accepted for publication in *American Journal of Roentgenology*.
106. \*Chen H and **Manatunga A.K.** A Longitudinal Model for Repeated Interval-Observed Data with Informative Dropouts. *Statistics and Probability Letters* (2011) 81(2): 292-297.
105. Moore, R.H., Lyles, R.H., and **Manatunga, A.K.** "Empirical Constrained Bayes Predictors Accounting for Non-Detects Among Repeated Measures", *Statistics in Medicine* (2010) 29; 2656-2668.
104. Wannemuehler, K.A., Lyles, R.H., **Manatunga, A.K.**, Terrell, M.L., and Marcus, M. "Likelihood-Based Methods for Estimating the Association Between a Health Outcome and Left- or Interval-Censored Longitudinal Exposure Data", *Statistics in Medicine* (2010) 29; 1661-1672.
103. \*Guo, Y., **Manatunga, A.K.**, A note on assessing agreement for frailty models. *Statistics and Probability Letters* 2009; doi:10.1016/j.Spl. 2009. 12.006

102. \*Chen H., **Manatunga A. K.**, Lyles, R. H., Peng L., Marcus M. Flexible modeling of longitudinal highly-skewed outcomes. *Statistics in Medicine* (2009) 28(30):3811-3828.
101. Auyeung SF, Long Q, Royster EB, Murthy S, McNutt MD, Lawson D, Miller A, **Manatunga A.**, Musselman DL. Sequential multiple-assignment randomized trial design of neurobehavioral treatment for patients with metastatic malignant melanoma undergoing high-dose interferon-alpha therapy. *Clinical Trials* 2009 Oct;6(5):480-90. *Epub* 2009 Sep 28.
100. **Manatunga, A.K.**, Chen, H., Terrell, M.L., Lyles, R.H., and Marcus, M. "A Longitudinal Model of Repeated Highly Skewed Outcome Data", *Sri Lankan Journal of Applied Statistics* (2008) 9:39-51.
99. \*Guo, Y. and **Manatunga, A.K.** Measuring Agreement of Multivariate Discrete Survival Times Using a Modified Weighted Kappa Coefficient. *Biometrics* (2009) 65(1):125-134.
98. Lyles, R.H., Moore, R.H., **Manatunga, A.K.**, and Easley, K.A. "Covariate-Adjusted Constrained Bayes Predictions of Random Intercepts and Slopes", *Journal of Modern Applied Statistical Methods* (2009) 8(1):81-94.
97. Williamson, J.M., Kim, H-Y., **Manatunga, A. K.** and Addiss D.G. Modeling Survival Data with Informative Cluster Size. *Statistics in Medicine* (2008)
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Teaching:

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Research (Invited Papers/non-refereed):

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3. Binongo, J.N.G., Yuan, M., Taylor, A., Bao, J., Garcia, E.V., Manatunga, A.K. A Two-Stage Modeling Approach to Predicting Obstruction in the Kidney, 2006 *Joint Statistical Meetings, ASA Section on Biometrics*.
4. Manatunga, A. K., Schmotzer, B., Lyles, R. H., Small, C., Guo, Y. and Marcus, M. Statistical issues related to modeling menstrual length (2005) American Statistical Association Proceedings.
5. \*Gao, F., Manatunga A. K. and Chen S. A tree-structured method for analyzing multivariate survival data. 2001 *American Statistical Association Proceedings*.
6. Ambrosius, W. and Manatunga, A.K., (1999) Intensive Short-Courses for Fellows and Physicians, 2000 *American Statistical Association Proceedings*.
7. Schwartz, R.G., McKenzie, W.B., Alexander, J., Sager, P., D'Souza, A., Manatunga, A.K., Schwartz, P.E., Berger, H.J., Setaro, J., Surkin, L., Wackers, F.J., Zaret, B.L. Congestive Heart Failure and Left Ventricular Dysfunction Complicating Doxorubicin Therapy. *Year Book of Medicine 1988*, Year Book Publishers, Inc., Chicago, pp. 380-382.

8. Pastan, S., Gassensmith, C., Manatunga, A.K., Copley, J.B., Smith, E.J., Hamburger, R.J. Prospective Comparison of Peritoneoscopic and Surgical Implantation of CAPD Catheters. *ASAIO Transactions* (1991), 37: M154-M156.
9. Tolbert, P. and Mulholland, J. et al. (Manatunga, A.K.) Spatio-Temporal Analysis of Air Quality and Pediatric Asthma Emergency Room Visits. 1997 *American Statistical Association Proceedings*.

#### **BOOK REVIEW:**

1. Manatunga, A.K. A book review of Modeling Survival Data in Medical Research by D. Collett. *Statistical Methods in Medical Research* (1995), 4(3).
2. Manatunga A.K. Analysis of Multivariate Survival Data by P. Hougaard. Reviewed for Springer-Verlag Publishers.

#### **PRESENTATIONS AND ABSTRACTS**

1. Manatunga AK, Jang J, Peng L. Assessing Alignment Between Functional Markers and Ordinal Outcomes. Joint International Society for Clinical Biostatistics and Australian. Statistical Conference. 2018 August; Melbourne, Australia.
  2. Manatunga AK. Nuclear Medicine Study: Functional Data, Expert Ratings, Clinical Characteristics on Obstruction of Kidney. Indiana University (Invited Presentation). 2018 September; Indianapolis, IN, United States
  3. Manatunga AK. Biostatistical Research in Nuclear Medicine to Summer Institute in Research Education in Biostatistics Students. Department of Biostatistics and Bioinformatics, Emory University. 2018 June; Atlanta, GA, United States.
  4. Chang C, Jang JH, Long Q, Manatunga A. A Latent Bayesian Classification Model to Predict Kidney Obstruction Based on Renography and Expert Ratings,. Joint American Statistical Association 2018 , Vancouver, Canada. 2018 August.
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1. Manatunga A. K. Lessons learned from designing a pragmatic multi-center cluster randomized study, Georgia CTSA, Morehouse School of Medicine, September 2018
  2. Manatunga A. K. , Jang, J. H., Peng L. Assessing alignment between functional markers and ordinal outcomes based on broad sense agreement, ISCB/ASC conference, Melbourne, Australia, August 2018
  3. Changgee Chang, Jeong Hoon Jang, Qi Long, and Amita Manatunga, A Latent Classification Model to Predict Kidney Obstruction based on Renography and Expert Ratings, Eastern North American Region International Biometric Society (ENAR), Atlanta, March, 2018
  4. Jang, J. H., Manatunga, A. K., Taylor. A. T. and Long, Q. "Overall Unscaled Indices for Assessing Agreement among Multiple Raters". NSF/ Harshbarger Student Poster Session, SRCOS Summer Research Conference. Poster, June 2017.
  5. Manatunga A. K, Long Q, Taylor A. A Modeling Approach for Predicting Disease Status Using Functional Data in the Absence of a Gold Standard. Joint Conference on Biometrics and Biopharmaceutical statistics. Vienna. August 2017

6. Manatunga A.K., Chang C., Jang, J,H, Taylor A. T. and Long Q. A Modeling Approach for Predicting Disease Status Using Functional Data in the Absence of a Gold Standard. IISA International Conference on Statistics at University of Florida, Invited Talk. May 2018
7. Jang, J. H., Peng, L. and Manatunga, A. K. Assessing Alignment Between Functional Markers and Ordinal Outcome Based on Broad Sense Agreement. Eastern North Region International Biometrics Meeting (ENAR), Atlanta, March 2018
8. Manatunga A. K, Long Q, Taylor A. A Modelling Approach for Predicting Disease Status using functional Data in the Absence of a gold Standard, To PHD students. .Department of Biostatistics and Bioinformatics, Emory University, March 2018
9. Jang, J. H., Manatunga, A. K., Taylor. A. T. and Long, Q. Overall Unscaled Indices for Assessing Agreement among Multiple Raters". Joint Statistical Meeting. July 2017
10. Zhiping Qiu, Peng L., Manatunga A.K., Guo Y. A Smooth Nonparametric Approach to Determining Cut-Points of A Continuous Scale Computational Statistics and Data Analysis. Eastern North American Region International Biometric Society (ENAR), Atlanta, March, 2018
11. Jang J. H., Manatunga A.K., Long Q. Unscaled Indices for Quantifying Agreement for Multiple Raters. Southern Regional Council on Statistics (SRCOS) 53rd Summer Research Conference, June, 2017, Received Boyd NSF/Harshbarger Student Poster Travel Award
12. Manatunga A. K, Long Q, Taylor A. A Modelling Approach for Predicting Disease Status Using functional Data in the Absence of a gold Standard, To PHD students. Department of Biostatistics and Bioinformatics, Emory University, March 2017
13. Manatunga A. K. Long Q, Chen Changgee Chen, Taylor A. A Modelling Approach for Predicting Disease Status Using functional Data in the Absence of a gold Standard, Eastern Mediterranean Region of the International Biometric Society (EMR\_IBS), May 2017
14. Manatunga A. K. Long Q, Taylor A. A Modelling Approach for Predicting Disease Status Using functional Data in the Absence of a gold Standard, Departmental seminar. Department of Biostatistics, University of Pittsburgh, March 2017
15. Manatunga A. K. Long Q, Taylor A. A Modelling Approach for Predicting Disease Status Using functional Data in the Absence of a gold Standard, Departmental seminar, Department of Biostatistics, University of Pittsburgh, March 2017
16. Manatunga A. K, Wang L., Long Qi, Taylor A. A Latent Class Modeling Approach for Predicting Disease Status Using Functional Data in the Absence of a Gold Standard. A conference on Latent Variables in Statistics, University of South Carolina, October 2016
17. Jang J. H., Manatunga A.K., Long Q. Overall Unscaled Indices for Quantifying Agreement Among Multiple Raters. Eastern North Region International Biometrics Meeting (ENAR) , Baltimore, March 2017
18. Shandley L. M., Spencer J. B., Fothergill, A., Mertens,A. C.,Manatunga, A., Paplomata, E., Howards P.P. Impact of Tamoxifen therapy on fertility in breast cancer survivors
19. Warnock M., Manatunga A., Guo Y., Peng L., Jovanovic T. Identifying a PTSD resilient group based on a latent class analysis of childhood trauma and adult PTSD symptoms.

Poster, A conference on Latent Variables in Statistics, University of South Carolina, October 2016

20. Warnock M., Manatunga A., Guo Y., Peng L., Jovanovic T. Identifying a PTSD resilient group based on a latent class analysis of childhood trauma and adult PTSD symptoms. 53rd Summer Research Conference, June, 2017, Received Boyd NSF/Harshbarger Student Poster Travel Award
21. Dai T\*, Guo Y, Peng L and Manatunga AK. "Nonparametric Estimation of Agreement Measure Between Ordinal and Censored Continuous Outcomes." Oral presentation in session "Analysis of ordinal data". Joint Statistical Meetings, Seattle, WA, USA, Aug., 2015.
22. Wang L\*, Peng L, Guo Y and Manatunga AK. A Method for Constructing a Score from Items in an Instrument with the Concept of Agreement. Joint Statistical Meetings (JSM), Seattle, WA, Aug 2015.
23. Rahman A\*.F., Peng L, Manatunga AK, and Guo Y, "Nonparametric Regression Method for Broad Sense Agreement", —Invited Talk, Department of Mathematical Sciences, University of Montana, February 29, 2016.
24. Rahman A\*.F., Peng L, Manatunga AK, and Guo Y, "Nonparametric Regression Method for Broad Sense Agreement", —Invited Talk, Department of Mathematics, Eastern Michigan University, March 08, 2016.
25. Rahman A\*. F. Peng L, Manatunga AK, and Guo Y, "Nonparametric Regression Method for Broad Sense Agreement", —Invited Talk, Department of Mathematics and Statistics, University of Houston-Downtown, March 22, 2016.
26. Rahman A\*.F., Peng L, Manatunga AK, and Guo Y, "Nonparametric Regression Method for Broad Sense Agreement", —Invited Talk, Department of Mathematical Sciences, University of Houston-Clear Lake, March 29, 2016.
27. Rahman A\*.F., Peng L, Manatunga AK, and Guo Y, "Nonparametric Regression Method for Broad Sense Agreement", —Invited Talk, Department of Mathematics and Statistics, Arkansas State University, March 30, 2016.
28. Rahman A\*. F., Peng L, Manatunga AK, and Guo Y, "Nonparametric Regression Method for Broad Sense Agreement", —Invited Talk, Department of Biostatistics, University of Alabama at Birmingham, April 05, 2016
29. Liu, S., Manatunga, A.K., Peng, L. and Marcus, M. "Joint Modeling of Longitudinal Outcomes and Discrete Survival Times Using a Copula." Joint Statistical Meetings (JSM), Boston, MA, August, 2014.
30. Liu, S., Manatunga, A.K., Peng, L. and Marcus, M. "A Joint Modeling Approach for Multivariate Survival Data with Random Length". Emory University Department of Biostatistics and Bioinformatics 50th Anniversary, October, 2014.
31. Rahman A F, Peng L, Guo Y and Manatunga AK. (2015). "Nonparametric Regression Method for Broad Sense Agreement". ENAR Spring meetings, Miami, FL. March 15-18, 2015. Oral presentation.

32. Dai T, Guo Y, Peng L and Manatunga AK. "Statistical Methods for Assessing Reproducibility in Multicenter Neuroimaging Studies." Poster presentation in NSF/Anderson Student Poster Session session. SRCOS Summer Research Conference, Carolina Beach, NC, USA, Jun., 2015.
33. Dai T, Guo Y, Peng L and Manatunga AK. "Nonparametric Estimation of Agreement Measure Between Ordinal and Censored Continuous Outcomes." Oral presentation in session "Analysis of ordinal data". Joint Statistical Meetings, Seattle, WA, USA, Aug., 2015.
34. Manatunga A. K. Joint Modeling of Longitudinal Outcomes and Discrete Survival Times Using a Copula. Invited Presentation. Division of Intramural Population Health Research *Eunice Kennedy Shriver* National Institute of Child Health and Human Development.
35. Manatunga A. K. Writing a Successful Grant in a Challenging Funding Climate: Strategies for Statistical and Other Scientific Review Panels. Invited Presentation. International Biometric Society Eastern North American Region (ENAR) Spring Meeting, Baltimore, MD, March 2014.
36. Manatunga A. K. Assessment of correspondence/alignment among outcomes in mental health studies. Invited Presentation, Divisions of Biostatistics, Medical College of Wisconsin, May 2013.
37. Liu S., Manatunga A.K., Peng L., Joint Modeling Approaches for Clustered Survival Data with Random Cluster Size. Joint Statistical Meetings (JSM), Montreal, Quebec, Canada 2013.
38. Liu S., Manatunga A.K., Peng L., Semiparametric Models for Clustered Survival Data with Random Cluster Size. International Biometric Society Eastern North American Region (ENAR) Spring Meeting, Baltimore, MD, March 2014.
39. Manatunga A. K. Assessment of correspondence/alignment among outcomes in mental health studies. Invited Presentation, Divisions of Biostatistics, Medical College of Wisconsin, May 2013.
40. Manatunga A. K. Assessment of correspondence/alignment among outcomes in mental health studies. Invited Presentation, Divisions of Biostatistics, Medical School of South Carolina, November 2012.
41. Manatunga A. K. Assessment of alignment among outcomes in mental health studies. Invited Presentation, Divisions of Biostatistics, St. Jude Hospital, November 2012.
42. Manatunga A. K. Assessing correspondence between ordinal and continuous measurements: Applications in mental health studies, Invited Presentation, Joint statistical meeting, San Diego, August 2012.
43. Manatunga A. K. Assessment of outcomes in mental health research, Eastern Mediterranean Region International Biometrics Society, April 2013.
44. Sun, X., Peng, L., Manatunga, A.K., Lyles, R.H., and Marcus, M. "Quantile Regression for Longitudinal Studies with Missing and Left Censored Measurements", International Biometric Society Eastern North American Region (ENAR) Spring Meeting, Orlando, FL, March 2013.
45. Dai T, Guo Y, Peng L and Manatunga (2013). "New agreement measures based on bivariate hazard functions". International Biometrics Society (ENAR) Meeting, Orlando FL.

46. Lu, X., Long, Q., Taylor, A., Manatunga, A. "A new approach for quantifying agreement among multiple raters: estimation and comparison", SRCOS Summer Research Conference, Burns, TN June 2013.
47. Wang, L., Long, Q., Taylor, A., Manatunga, A. "A Predictive Latent Class Model for Analyzing Time-series Data with Incorporation of Expert Ratings", SRCOS Summer Research Conference, Burns, TN, June 2013.
48. Manatunga A. K. Assessing correspondence between ordinal and continuous Measurements: Applications in mental health studies, University of Pittsburgh, Invited presentation. October 2011.
49. Manatunga A. K. Modeling Time-To-Pregnancy and variability in menstrual lengths, Invited presentation, Washington, DC, 2012.
50. Sun, X., Peng, L., Manatunga, A., Lyles, B., Marcus, M. "Quantile Regression for Longitudinal Studies with Missing and Left Censored Measurements", SRCOS Summer Research Conference, Jekyll Island, GA, June 2012.
51. Liu S. Manatunga A. Peng L. Marcus M. Semi-Parametric Models for Clustered Survival Data with Random Cluster Size, SRCOS Summer Research Conference, Jekyll Island, GA, June 2012.
52. Lyles R. H, Manatunga A. K. and Mitchell E. Analytic and Study Design Considerations when a continuous regression outcome is assessed in polled samples. Joint Statistical Meeting Miami 2011.
53. Peng, L., Li, R., Guo, Y., and Manatunga, A. Broad sense agreement between continuous measurements, oral presentation at the ENAR Spring Meeting, Miami FL, March 2011.
54. Peng, L., Li, R., Guo, Y., and Manatunga, A. Assessing Broad Sense Agreement between ordinal and continuous measurements, oral presentation at ENAR Spring Meeting, New Orleans LA, March 2010.
55. Wang, M, Manatunga, A., Guo, Y., and Peng, L. Estimation of cut-points on a continuous scale according to a categorical scale, ENAR Spring Meeting, New Orleans LA, March 2010.
56. Manatunga A. K. A Framework For The Assessment Of Disease Screening Instruments In Mental Health Studies 2011 Charles L. Odoroff Memorial Lecture, University of Rochester.
57. Manatunga A. K. Assessing agreement between ordinal and continuous Measurements. University of South Carolina, Invited Presentation, January 2011. Manatunga A. K. Assessing correspondence between Scales Georgia State University, Invited presentation, April 2011.
58. Peng L. Li Ruosha, Guo Y. Manatunga A. K. Broad Sense Agreement Between Continuous Measurements, ENAR, Miami, 2011.
59. Moore, R.\*, Lyles, R.H., Manatunga, A.K., and Easley, K.A. "Estimating Longitudinal HIV RNA Data Subject to a Limit of Detection Using Constrained Bayes Methodology", International Biometric Society Eastern North American Region (ENAR) Spring Meeting,



March, 2011.

60. Muhiddin A. Ozkor, Jonathan R. Murrow, Ayaz Rahman, Nino Kavtaradze, Shawn Arshad, Hamid Syed, Ji Lin, Amita Manatunga, and Arshed A Contribution Of Endothelium-Derived Hyperpolarizing Factor To Exercise-induced Vasodilation In African Americans compared to Whites, American Heart Association, November 2010.
61. Muhiddin A. Ozkor, Jonathan R. Murrow, Ayaz Rahman, Nino Kavtaradze, Shawn Arshad, Hamid Syed, Ji Lin, Amita Manatunga, and Arshed A. Quyyumi Endothelium-Derived Hyperpolarizing Factor Contributes To Exercise-induced Vasodilation In Hypercholesterolemia. American Heart association, November 2010.
62. Manatunga, A.K Application of statistics in interpretation of nuclear medical kidney images; Research collaborative project among physicians, physicists and statisticians. Sri Lanka Association for the Advancement of Science. June 2010 (Invited Presentation).
63. Manatunga, A.K. Interpretation of nuclear medical kidney images; A collaborative project and graduate education. SIBS program, Department of Biostatistics and Bioinformatics, June 2010.
64. Manatunga, A. K. Statistical Challenges in estimating environmental exposure using longitudinal data, faculty Research Seminar Series, The Environmental Health Sciences Center at Emory.
65. Peng L, Li R, Guo Y and Manatunga A. (2010). Assessing the “Broad Sense Agreement” between Ordinal and Continuous Measurements. International Biometrics Society (ENAR) Meeting, New Orleans, LA.
66. Wang M, Manatunga A., Guo Y and Peng L. (2010). Estimation of Cut-Points on a Continuous Scale According to a Categorical Scale. International Biometrics Society (ENAR) Meeting, New Orleans, LA.
67. Chen, H., Peng, L., Manatunga, A.K., and Marcus, M. Proportional Odds Modeling of Discrete Survival Data with Application to Reproductive Study. Joint Statistical Meetings, Salt Lake City, Utah, August, 2007.
68. Chen H, Peng, L, Manatunga, A.K., and Marcus, M. Modeling Discrete Survival Data with Application to Reproductive Study. ENAR, Crystal City, Virginia, March, 2008.
69. Lyles, R.H., Moore, R., Manatunga, A.K., and Easley, K.A. “Covariate-Adjusted Constrained Bayes Predictions of Random Intercepts and Slopes”, Joint Statistical Meetings of ASA and Biometric Society, Salt Lake City, Utah, August, 2007.
70. Wannemuehler, K.A., Lyles, R.H., Manatunga, A.K., Moore, R.H., Terrell, M.L., and Marcus, M. “Relating a Reproductive Health Outcome to Subject-Specific Features Based on Left- or Interval-censored Longitudinal Exposure Data”, International Biometric Society Eastern North American Region (ENAR) Spring Meeting, Arlington, VA, March, 2008.
71. Bao, J., Manatunga, A. K., Yuan M, Taylor A. A Two-Stage Predictive Model for Binary Paired Outcome with Some Predictors Missing Non-randomly. SRCOS, 2008, Charleston, June 2008.
72. Manatunga A. K. Binongo J. N. G, and Yuan M. Prediction based on two stage modeling, Joint Statistical Meeting. Seattle, 2006.

73. Patel R., Chen H., Manatunga A. K. Lyles, R. H., Peng L. Marcus M. Flexible modeling of exposure Data with informative number of repeated measurements International Biometrics Society (ENAR) Meeting, Atlanta, 2007.
74. Lyles, R. H. Wannemeuhler, Manatunga A. K., Moore R. H. Marcus M. Relating health outcome to subject-specific characteristics based on left-or-on-terval censored longitudinal exposure data. International Biometrics Society (ENAR) Meeting, Atlanta, 2007.
75. Moore R. H., Lyles R. H., Manatunga A. K. and Easley K. Constrained bayes prediction of left censored HIV RNA levels at a meaningful time point. International Biometrics Society (ENAR) Meeting, Atlanta, 2007.
76. Patel R. Bowman FD, Derado G, Waller L, Manatunga A.K. Interpreting Experience-based cognition from FMRI Joint Statistical Meeting. Joint Statistical Meeting. Seattle, 2006.
77. Lyles R. H., Manatunga A. K., Moore R. H., Marcus M. Predicting exposure at a specified time based on an extended randomized regression model for interval-censored data. Joint Statistical Meeting. Seattle, 2006.
78. Bao J, Yuan M, Binongo J. N. G, Taylor A, and Manatunga A. K. A Predictive model for binary paired outcome with two-stage sampling. International Biometrics Society (ENAR) Meeting, Atlanta, Poster presentation 2007.
79. Chen H., Manatunga A. K., Lyles, R.H. Marcus M. A latent model for highly skewed grouped data. Joint Statistical Meeting. Seattle, 2006.
80. Manatunga A. K, Lyles, R. H., Guo Y., Small C, Marcus M. (2005) Modeling association between menstrual length characteristics and reproductive outcomes, Joint Statistical Meeting, Minnesota.
81. Ying Guo and Amita K. Manatunga. A nonparametric global agreement measure for discrete survival outcomes. Joint Statistical Meetings, Minneapolis, MN, Aug., 2005.
82. Ying Guo, Dominique L. Musselman, Amita Manatunga, Natalie Gilles, Kathryn Lawson, Maryfrances Porter, J. Stephen McDaniel, and Charles B. Nemeroff. A novel approach to diagnosing major depression in patients with cancer. The 3rd Annual Winship Cancer Institute International Scientific Symposium, Atlanta, GA, Oct., 2005.
83. Kwee L. C., Satten G. A., Manatunga A. K., Duncan R. and Epstein M. P. (2005) Simple retrospective approaches for detecting interaction effects in case-control studies. Genetic Epidemiology 29 (3): 259-260.
84. Bruce E. C., Guo Y., Lawson K. C., Emery M., Brown A. R., McDonald W, Manatunga A. K. Musselman D. L. (2006) Platelet thromboxane A (2) secretion in patients with major depression responsive to electroconvulsive therapy. Biological Psychiatry 59 (8): 47S-47S 153 Suppl. S.
85. \*Moore, R.H., Lyles, R.H., and Manatunga, A.K. (April 2005) Prediction of Random Intercepts and Slopes when Data are Subject to a Detection Limit, Infinite Possibilities Conference, Atlanta, GA.
86. \*Guo Y, Musselman DL, Manatunga AK, Gilles N, Porter MR, McDaniel JS and Nemeroff CB. The Diagnosis of Major Depression in Patients with Cancer: a Comparative Approach. Society of Biological Psychiatry 60<sup>th</sup> Annual Convention & Scientific Program, Atlanta,

Georgia, USA, 2005.

87. Bruce EC, \*Guo Y, McDonald W, Brown AR, Emery M, Porquez J, Manatunga AK, Bonsall R, Nemeroff CB, Musselman DL. Platelet Thromboxane A<sub>2</sub> Secretion in Patients with Major Depression Undergoing Electroconvulsive Therapy. Society of Biological Psychiatry 60<sup>th</sup> Annual Convention & Scientific Program, Atlanta, Georgia, USA, 2005.
88. Gilles N, Ziemer DC, \*Guo Y, Manatunga AK, Larsen B, Brown AR, Vogels O, Phillips LS, Musselman DL. Depression and Diabetes in Urban African Americans. Society of Biological Psychiatry 60<sup>th</sup> Annual Convention & Scientific Program, Atlanta, Georgia, USA, 2005.
89. Bridget Larsen, Natalie Gilles, Angelo R. Brown, David C. Ziemer, \*Ying Guo, Amita Manatunga, Lawrence S. Phillips, Dominique L. Musselman. Accuracy of Self-Reported Healthcare Service Utilization in Urban, African Americans with Type 2 Diabetes.
90. \*Guo, Y. and Manatunga, A.K., Nonparametric estimation of the concordance correlation coefficient under univariate censoring. International Biometrics Society (ENAR) Meeting, Austin, TX, March, 2005.
91. \*Guo, Y. and Manatunga, A.K, Modeling the agreement of discrete bivariate survival times using kappa coefficient. Summer Research Conference on Statistics, Clemson, SC, June, 2005.
92. \*Guo, Y. and Manatunga, A.K. A nonparametric agreement measure for discrete survival outcomes. Joint Statistical Meetings, Minneapolis, MN, Aug., 2005.
93. \*Moore, R.H., Lyles, R.H., and Manatunga, A.K. (August 2005) Constrained Bayes Estimates of Random Intercepts and Slopes with Left Censored Data, 2005 Joint Statistical Meetings, Minneapolis, MN.
94. \*Chen, H., Manatunga, A.K., and Lyles, R.H. (March 2005) A model for highly skewed and rounded repeated measures data, International Biometric Society (ENAR) Meeting, Austin, TX
95. \*Chen, H., Manatunga, A.K., and Lyles, R.H. (June 2005) A random effects model for highly skewed and grouped data, Summer Research Conference on Statistics, Clemson, SC, Received R. L. Anderson student paper award.
96. Manatunga A. K. and \*Ying Guo (2004). Modeling the relationship between two correlated survival outcomes. Department of Statistics, University of South Carolina, Columbia. SC. Invited Presentation.
97. \*Kwee, LC, AK Manatunga, GA Satten and MP Epstein. (March 2005) Inference on haplotype-environment interactions using genotype data from case-control studies, International Biometrics Society (ENAR) meeting, Austin, TX.
98. Manatunga A. K. and \*Ying Guo (2004). Modeling the relationship between two correlated survival outcomes. International Sri Lankan Statistical Conference, Kandy, Sri Lanka. Invited Presentation.
99. Manatunga, A.K. (2004). Modeling the relationship between two correlated survival outcomes, Department of Statistics, University of South Carolina, Columbia, SC.

100. Manatunga, A.K. (May 2003). Use of Non-Parametric Frailty in Multivariate Survival Data. Invited Presentation, International Conference of Reliability and Survival Analysis, University of South Carolina, Columbia, SC.
101. \*Guo, Y. and Manatunga, A. K. (March 2004) Modeling the agreement of discrete bivariate survival times using kappa coefficient, International Biometrics Society (ENAR) Meeting, Pittsburgh, PA.
102. \*Guo, Y. and Manatunga, A. K. (2004) Modeling the relationship between two correlated survival outcomes, Joint Statistical Meetings, Toronto, Canada.
103. \*Guo, Y, Manatunga, A.K, Chen S. and Marcus M. (August 2003). Modeling Menstrual Cycle Length Using a Mixed Distribution. ASA Meeting, San Francisco, CA.
104. \*Guo, Y and Manatunga A. K. (May 2003). Modeling the Agreement of Discrete Bivariate Survival Times Using Kappa Coefficient. International Conference of Reliability and Survival Analysis, University of South Carolina, Columbia, SC.
105. \*Gao F., Manatunga, A. K. and Chen, S. (August 2003). Estimation of Baseline Hazard Function with Time-dependent Covariates Under Proportional Hazards Structure. ASA Meeting, San Francisco, CA.
106. Lyles, R.H., Manatunga, A.K., \*Moore, R.H., Bowman, F.D. (August 2003). Improving Point Estimates of Random Effects for Subjects at High Risk: A Case Study. ASA Meeting, San Francisco, CA.
107. \*Gao F., Manatunga, A. K. and Chen, S. (March 2003). Estimation of Baseline Hazard Function with Time-dependent Covariates Under Proportional Hazards Structure. Eastern North American Region Biometrics Meeting, Tampa, FL.
108. \*Gao, F., Manatunga, A. K. (January 2003). Identification of High Risk Groups for Development of Major Depression in the Presence of Censoring. CDC/ATSDR Statistical Symposium, Atlanta, GA.
109. \*Guo Y., Manatunga A.K., Chen S. and Marcus M. (March 2002). Parametric and Nonparametric Estimation of the Distribution of Menstrual Cycle Length. ENAR Meeting, Arlington, VA.
110. Shenvi N., Manatunga A.K. and Gebhart S.P. (April 2002). A Web-based Adverse Events Reporting System for GCRC Protocols. GCRC National Meeting, Baltimore, MD.
111. \*Gao, F., Manatunga A.K. and Chen S. (March 2002). A Regression Tree for Multivariate Survival Data. ENAR Meeting, Arlington, VA.
112. Bowman, F.D. and Manatunga, A. (2002). Jointly Modeling Longitudinal Data Profiles and Response-Altering Event Risks. Invited Presentation in Topic Contributed Session (Analyzing Response Profiles From Longitudinal Data Using Mixed Models) at Joint Statistical Meetings, New York, NY.
113. Bowman, F.D. and Manatunga, A. (July 2002). Jointly Modeling Longitudinal Data Profiles and Response-Altering Event Risks. Invited Presentation in International Biometrics Conference, Freiberg, Germany.
114. \*Gao, F., Manatunga A.K. and Chen S. (August 2001). A Tree-structured Method for Analyzing Multivariate Survival Data. Joint Statistical Meeting, Atlanta, GA.

115. Manatunga A.K. Williamson, J.M., Liptsitz, S.R. (2000). Modeling Kappa for Measuring Dependent Categorical Agreement Data. International Indian Statistical Association, First Joint Statistical Meeting, Invited Presentation, New Delhi, India.
116. Williamson, J., Barnhart, H-X., Manatunga, A.K. (2001). Modeling Dependent Agreement Data With Covariates, 2001 Spring Eastern North American Region Biometrics Meeting, Invited Presentation, Charlotte, NC.
117. \*Price D., Manatunga A.K. (2001). A Bivariate Survival Model With Cured Fractions. 2001 Spring Eastern North American Region Biometrics Meeting, Charlotte, NC.
118. Marzec, U.M., Maldonado, D.D.C., Reemsnyder, A.J., Manatunga, A.K., Musselman D.L., Nemeroff, C.B., Hanson S.R. (April 2001). In Vitro Effects of Paroxetine Upon Platelet Activation. *Biological Psychiatry, A Journal of Psychiatric Neuroscience* 49(8): 130 Suppl. S., New Orleans, LA.
119. Manatunga, A.K., Chen, M-H. and Williams, C. (May 2000). Estimating Heritability From Human Twin Longitudinal Data by Incorporating Historical Prior Information, International Society of Bayesian, Analysis 2000 Conference, Poster Presentation, Crete, Greece.
120. \*Price, D. and Manatunga, A.K. (March 2000). Survival Models For Heterogeneous Populations With a Cured Fraction, 2000 Spring Eastern North American Region Biometrics Meeting, Chicago, IL.
121. Williamson, J. and Manatunga, A.K. (March 2000). A Method For Analyzing Familial Case-Control Data, 2000 Spring Eastern North American Region Biometrics Meeting, Chicago, IL.
122. Sternberg, M. and Manatunga, A.K. (March 2000). Use of Conditional and Predictive Probabilities To Monitor A Clinical Trial. 2000 Spring Eastern North American Region Biometrics Meeting, Chicago, IL.
123. Manatunga, A.K. (December 1999). A Class of Stochastic Models For Tumor Recurrence Data. Sixth International Conference, Statistician Combinatorics and Related Areas, Invited Presentation, Mobile, AL.
124. Manatunga, A.K. (1999). Heritability Estimates From Human Twin Data By Incorporating Historical Prior Information, Georgia State University, Invited Presentation, Atlanta, GA.
125. \*Price, D. and Manatunga, A.K. (1999). Survival Models For Heterogeneous Populations With A Cured Fraction, American Statistical Association Joint Statistical Meeting, Baltimore, MD.
126. Ambrosius, W. and Manatunga, A.K., (1999). Intensive Short-Courses For Fellows and Physicians, American Statistical Association Joint Statistical Meeting, Invited Presentation, Baltimore, MD.
127. Williamson, J.M. and Manatunga, A.K. (1999). Latent Variable Modeling For Interater Agreement Data. Eastern North American Region Biometrics Meeting, Invited Presentation, Atlanta, GA.
128. Forrest, B., Feingold, E. and Manatunga, A.K. (1999). Analysis Of Age Of Onset Data In Siblings With Genes Shared By Identically By Descent. Eastern North American Region Biometrics Meeting, Invited Presentation, Atlanta, GA.

129. \*Viswanathan, B. and Manatunga, A.K. (March 1999). Bivariate Frailty Survival Models For Estimating Heritability In Twin Data. Eastern North American Region Biometrics Meeting, Atlanta, GA.
130. \*Price, D.L. and Manatunga, A.K. (January 1999). Use of Univariate Frailty Models To Analyze Survival Data With Cure, CDC/ATSDR Symposium on Statistical Methods, Poster Presentation, Atlanta, GA.
131. \*Viswanathan, B. and Manatunga, A.K. (January 1999). Bivariate Frailty Survival Models For Estimating Heritability In Twin Data. CDC/ATSDR Symposium on Statistical Methods, Atlanta, GA.
132. Manatunga, A.K., Hudgens, M., Chen, S. (December 1998). A Correction Term For Sample Size Estimation in Cluster Randomized Studies With Varying Cluster Size, Cape Town, South Africa.
133. Manatunga, A.K., Hudgens, M., Chen, S. (May 1998). A Correction Term For Sample Size Estimation In Cluster Randomized Studies With Varying Cluster Size, Controlled Clinical Trials Meeting, Atlanta, GA.
134. Manatunga, A.K., Chen, M-H., Williams, C. (March 1998). Heritability Estimates From Human Twin Data By Incorporating Historical Prior Information, 1998 Spring Eastern North American Region Biometrics Meeting, Pittsburgh, PA.
135. \*Viswanathan, B. and Manatunga, A.K. (March 1998). Assessing Time Dependent Association Using Frailty Models, 1998 Spring Eastern North American Region Biometrics Meeting, Pittsburgh, PA.
136. Manatunga, A.K. and Chen, S. (August 1997). Sample Size Estimation For Group Randomized Studies With Survival Outcomes. American Statistical Association Joint Statistical Meeting, Anaheim, CA.
137. \*Viswanathan, B., Manatunga, A.K. (August 1997). Diagnostics Plots For Assessing Frailty Assumption In Multivariate Survival Data. American Statistical Association Joint Statistical Meeting, Anaheim, CA.
138. Tolbert, P. and Mulholland, J., et al. (Manatunga, A.K.) (August 1997) Spatio-Temporal Analysis of Air Quality and Pediatric Asthma Emergency Room Visits. 1997 American Statistical Association Joint Statistical Meeting, Anaheim CA.
139. \*Viswanathan, B., Manatunga, A.K. (January 1997). Diagnostics Plots For Assessing Frailty Assumption In Multivariate Survival Data. CDC and ATSDR Symposium on Statistical Methods.
140. Sun, F., Ashley, A., Brown, M., Durham, L.K., Datta, S., Feingold, E., Halloran, M.E., Manatunga, A.K., Sherman, S.L. (November 1996). Testing For A Mitochondrial DNA Contribution To Complex Diseases. American Human Genetics Meeting, San Francisco, CA.
141. Manatunga, A.K. (April 1996). Estimating The Proportionality Parameters In The K-sample Proportional Hazards Models, Biostatistics Seminar, Emory University, Atlanta, GA.
142. Williamson, J.M., Manatunga, A.K. (March 1996). Assessing Interrater Agreement from Dependent Data. Eastern North American Region Biometrics Meeting.

143. Byas-Smith, M.G., Umeakunne, Kay, Wilson, T., Manatunga, A.K. (November 1995). Capsaicin Relieves Tonsillopharyngitis Pain in Patients With Common Cold Symptoms. American Pain Society.
144. Byas-Smith, M.G., Umeakunne, Kay, Sebastianelli, J., Bryant, P., Manatunga, A.K. (November 1995). Capsaicin Induced Sensitization Relieves Pain When Applied to Painful Conditions of the Oral Mucosa. American Pain Society.
145. McKenzie-Brown, A.M., Byas-Smith, M.G., Sebastianelli, J., Hord, A.H., Manatunga, A.K. (November 1995). The Effects of Altered Vascular Dynamics n Sympathetically Maintained Pain: A Comparison of Phentolamine, Sodium Nitroprusside and Saline. American Pain Society.
146. Manatunga, A.K. (June 1995). Modeling Familial Aggregation With Outcomes Related To Survival Times. WNAR Conference, Invited Presentation.
147. Manatunga, A.K. (April 1995). An Overview of Analysis of Longitudinal Data Analysis, Biostatistics Seminar, Emory University, Atlanta, GA.
148. Manatunga, A.K. (June 1994). Genetic Variants of Angiotensinogen and Blood Pressure, Hypertension Center, Indiana University.
149. Bloem, L.J., Manatunga, A.K., Tewksbury, D.A., Pratt, J.H. (May 1994). The Relationship of an Angiotensinogen Genetic Variant and Plasma Angiotensinogen to Blood Pressure in Black and White Children. Clinical Research Meeting 42(2): A339, Baltimore, MD.
150. Chen, S., Manatunga, A.K. (January 1994). Estimating The Proportionality Parameter In The Proportional Hazards Model With K-samples. American Statistical Association, Atlanta, GA.
151. Manatunga, A.K. (October 1993). Modeling Familial Aggregation with Outcomes Related to Survival Times. Invited Presentation, Emory University, Atlanta, GA.
152. Manatunga, A.K. (September 1993). Parametric Inference for Matched Pair Data. Invited Presentation, Department of Biostatistics & Epidemiology, Maryland University.
153. Bloem, L.J., Manatunga, A.K., Boatright, E., Pratt, J.H. (September 1993). Relation of Race and a Polymorphism in the Angiotensin I-Converting Enzyme Gene to Enzyme Levels. American Heart Association Council for High Blood Pressure Research 47th Annual Conference and Scientific Sessions, Hypertension 22(3):407, San Francisco, CA.
154. Manatunga, A.K. (July 1993). Parametric and Semi Parametric Inference for Matched Pair Data. Invited Presentation, Department of Preventive Medicine, Stonybrook University, New York.
155. Pratt, J.H., Manatunga, A.K. (June 1993). Ethnic Variations in Hypertension. 12th International Congress of Nephrology, Jerusalem, Israel.
156. Chioran, G., Harris, A., Arend, O., Wolf, S., Manatunga, A.K., Yung, R. (May 1993). Retinal Blood Flow Indexes in HIV Positive Patients Measured by Scanning Laser Ophthalmoscope. Association for Research in Vision and Ophthalmology 34(4): 1508, Annual Meeting, Sarasota, FL.

157. Phillips, C.A., Cantor, L.B., Harris, A., Manatunga, A.K. (May 1993). Inter-and intra-direct Video Image Reproducibility of Optic Disc Pallor Utilizing the Topcon Imagenet. Association for Research in Vision and Ophthalmology Annual Meeting, Sarasota, FL.
158. Dickinson, J.C., Manatunga, A.K., Voelker, J.R. (April 1993). Effect of Dietary Na<sup>+</sup> on Angiotensin II Forearm Vascular Response in Senescence. American Federation of Clinical Research Conference 41(2): A126.
159. Murray, M.D., Brater, D.C., Greene, P.K., Haag, K.M., Kuzmik, D.D., Manatunga, A.K., Mullin, M.A. (February 1993). Renal Effects of NSAIDs in Healthy Elderly Persons. American Society for Clinical Pharmacology and Therapeutics 53(2): 206, Honolulu, HI.
160. Manatunga, A.K., Oakes, D. (August 1992). A Truncated Tau for Bivariate Frailty Distributions American Statistical Association Joint Statistical Meeting, Boston, MA.
161. Manatunga, A.K., Jones, J.J., Pratt, J.H. (April 1992). A Racial Difference in the Rate of Blood-Pressure Change with Age. Clinical Research 40(2): A426.
162. Lyons, J.L., Cantor, L.B., Manatunga, A.K. (March 1992). Computerized Image-Analysis of the Optic Disk-Direct vs. Indirect Image Acquisition. Investigative Ophthalmology Visual Science 33(4): 882.
163. Brazus, A.W., Cantor, L.B., Manatunga, A.K. (March 1992). Variability of Retinal Nerve-Fiber Layer Height (RNFLH) Measurement by Computerized Image-Analysis. Investigative Ophthalmology Visual Science 33(4) 886.
164. Phillips, C.A., Cantor, L.B., Manatunga, A.K. (March 1992). Intraphotographic Variability of Computerized Image-Analysis of the Peripapillary Retinal Nerve-Fiber Layer Height. Investigative Ophthalmology Visual Science 33(4) 886.
165. Cantor, L.B., Brazus, A.W., Manatunga, A.K. (March 1992). Retinal Nerve-Fiber Layer Height (RNFLH) and Disk Topography in Ocular Hypertension. Investigative Ophthalmology Visual Science 33(4): 886.
166. Montebello, J.F., Manatunga, A.K., Horvath, J.L., Peyton, F.W., Hartson, M. December 1991). The Reirradiation of Recurrent Bronchogenic Carcinoma with External Beam Irradiation. Radiological Society of North America, Chicago, IL.
167. Manatunga, A.K., Pratt, J.H. (September 1991). Heritability and Familial Aggregation of Aldosterone Excretion in Black and White Children. Council for High Blood Pressure Research American Heart Association, Chicago, IL.
168. Pratt, J.H., Manatunga, A.K. (June 1991). Genetic Influences on the Urinary Excretion of Aldosterone in Children. 17th International Aldosterone Conference, Washington, DC.
169. Manatunga, A.K., Oakes, D. (June 1991). A New Representation of Cox's Score Statistics and its Variance. NATO Advanced Research Workshop in Survival Analysis, Columbus, OH.
170. Manatunga, A.K., Jones, J.J., Pratt, J.H. (November 1990). Relations of Urinary Aldosterone Excretion in Children with Family History of Hypertension. 63rd Scientific Session of the American Heart Association, Dallas, TX.



171. Manatunga, A.K., Oakes, D. (August 1990). A Measure of Association for Bivariate Frailty Distributions. American Statistical Association Joint Statistical Meeting, Anaheim, CA.
172. Oakes, D., Manatunga, A.K. (April 1990). Parametric Inference for Matched Pair Survival Data with Stable Frailties. Biometric Society Eastern North American Region Biometrics Meeting, Baltimore, MD.

## STUDENT COMMITTEES:

### Ph.D. Dissertation Advisor:

- |           |   |
|-----------|---|
| 2016-2019 | Jeong Hoon Jang, Department of Biostatistics and Bioinformatics. <b>Title:</b> Statistical Methods for Evaluating Continuous, Ordinal and Functional Diagnostic Marker Tests  |
| 2013-2018 | Wanzhe Zhu (with Qi Long), <b>Title:</b> Statistical Methods for Handling Missing Data in Functional Data Analysis, Department of Biostatistics and Bioinformatics  |
| 2010-2015 | Shuling Liu, Department of Biostatistics and Bioinformatics<br><b>Title:</b> Joint Modeling Approaches for Clustered Survival Data with Random Cluster Size<br><b>Current Position:</b> Associate Research Scientist, Center for Outcome Research and Evaluation, Yale School of Medicine |
| 2005-2011 | Anna Jolly, Department of Biostatistics<br><b>Current Position:</b> Mathematical Statistician, Centers for Disease Control and Prevention   |
| 2004-2008 | Lydia Kwee, Department of Biostatistics (with Michael Epstein)<br><b>Title:</b> Multilocus methods for association studies of complex traits<br><b>Current Position:</b> Biostatistician, Duke Molecular Physiology Institute   |
| 2004-2007 | Huichao Chen, Department of Biostatistics<br><b>Title:</b> Statistical methods for modeling exposure and reproductive outcomes<br><b>Current Position:</b> Research Scientist, Department of Biostatistics, Harvard T. H. Chan School of Public Health                                    |
| 2001-2005 | Ying Guo, Department of Biostatistics<br><b>Title:</b> Assessing agreement for survival outcomes<br><b>Current Position:</b> Associate Professor of Biostatistics, Emory University   |
| 2000-2003 | Feng Gao, Ph.D. 2003, Department of Biostatistics,<br><b>Title:</b> Regression Tree Methods for Multivariate and Univariate Survival Data<br><b>Current Position:</b> Associate Professor of Surgery, Washington University School of Medicine in St Louis                                |
| 1996-2001 | Dionne Price, Ph.D. 2001, Department of Biostatistics.<br><b>Title:</b> Survival Models for Heterogeneous Populations with Cure<br><b>Current Position:</b> Director, Division of Biometrics IV, U.S. Food and Drug Administration  |
| 1995-1999 | Bindu Viswanathan, Ph.D. 1999, Department of Biostatistics.<br><b>Title:</b> Assessing the Association in Correlated Survival Data Using Frailty  |

Models

**Current Position:** Assistant Professor of Instruction

Department of Statistics & Data Science, College of Natural Sciences, The University of Texas at Austin.

M.P.H./MSPH Thesis Advisor:

- |           |   |
|-----------|---|
| 2018      | Emily Anne Gebhardt, MSPH<br><b>Title:</b> Introduction to Survival Analysis in the Presence of Competing Risks.  |
| 2018      | Kevin Park, MSPH<br><b>Title:</b> Evaluation of Functional Data Clustering Algorithms on Renogram Curves to Aid in the Diagnosis of Kidney Obstruction                                      |
| 2018      | Alison Marie Zinsli, MSPH<br><b>Title:</b> Evaluation of agreement measures among groups of raters with an application to the interpretation of kidney obstruction.                         |
| 2017      | Hanna Mar, MSPH,<br><b>Title:</b> Investigating Heterogeneous Associations in Fear Responses among PTSD Patients Using Quantile Regression  |
| 2016      | Warnock, Megan Victoria, MSPH<br><b>Title:</b> Identifying a PTSD resilient group based on a latent class analysis of childhood trauma and adult PTSD symptoms                              |
| 2013      | Chen Xu, Biostatistics<br><b>Title:</b> Comparison of mean residual life between mental disease patients and healthy population in a national survey  |
| 2010      | John Rice, Biostatistics (Sheppard Award Winner at the Rollins school of Public Health)<br><b>Title:</b> Statistical Models for Microbial Concentration Data Incorporating Detection Limits |
| 2004      | Binwei Song, Biostatistics<br><b>Title:</b> Performance of statistical methods for analyzing tied and group survival data with an application to a reproductive study                       |
| 2004      | Metrecia L. Terrell, Biostatistics<br><b>Title:</b> A longitudinal data Analysis: Selecting Low and High Risk Exposure Groups for Women in the Michigan Female Health Study                 |
| 1999-2001 | Stephen Grilli, Biostatistics<br><b>Title:</b> Modeling Smoking Initiation of Finish Twins Using Univariate and Bivariate Survival Models   |
| 1998-2000 | Ali Khan, Biostatistics<br><b>Title:</b> Admission Predictors of Hantavirus Pulmonary Syndrome Mortality, 1994-1999.  |
| 1998-1999 | S. Jane Henley, Biostatistics<br><b>Title:</b> Leanness and Increased Risk of Lung Cancer Mortality: Fact or Artifact?  |

- 1996-1997 Lynn Hutsko, Biostatistics  
**Title:** A Comparison of Methods for Analyzing Survival Data from Correlated Observations: Application in Ophthalmology
- 1995-1996 P.K. Batabayal, Biostatistics  
**Title:** Relationship of Genetic Variants of the Epithelial Sodium Channel to Urine and Plasma Electrolytes and Blood Pressures of African American and White Children

Post-Doc Advisor,

2016- Present (with Qi Long)

Changgee Chang

2016-2018 (with Limin Peng, Ying Guo)

Zhiping Qiu, PHD,

**Current Position:** Department of Mathematics, School of Mathematical Sciences, Huaqiao University, Quanzhou, China

2014-2016 (with Limin Peng, Ying Guo)

AKM Fazulr Rahman, PHD,

**Current position:** Assistant Professor, Department of Biostatistics, University of Alabama, AL

Ph.D. Dissertation Committee Member:

- 2019 Bo Wei, Department of Biostatistics and Bioinformatics  
 2019 Grace Kim, Department of Biostatistics and Bioinformatics  
 2015-2018 Dane Robert Van Domelen, Department of Biostatistics and Bioinformatics  
 2014- 2017 Tian Dai, Department of Biostatistics and Bioinformatics  
 2015-2015 Jing Yang, Department of Biostatistics and Bioinformatics  
 2013- 2015 Xiaoyan Sun, Department of Biostatistics and Bioinformatics  
 2012- 2014 Emily Mitchell, Department of Biostatistics and Bioinformatics  
 2009-2011 Rousha Li, Department of Biostatistics and Bioinformatics  
 2009-2010 Gordana Derado, Department of Biostatistics and Bioinformatics  
 2006 Jun Dai, GDBBS  
 2003-2007 Reneé Moore, Department of Biostatistics  
 2003-2005 Chanley Small, Department of Epidemiology  
 2000-2002 Molin Wang, Department of Biostatistics  
 1999-2002 Betsy Hill, Department of Biostatistics  
 2000-2001 Fan Xu, Department of Biostatistics  
 1996-2000 Drew Baughman, Department of Biostatistics  
 1996-1999 Ujjwala Vijapurkar, Department of Biostatistics  
 1996-1997 Elizabeth Zell, Department of Biostatistics  
 1996-1997 Katey Durham, Department of Biostatistics

M.P.H./M.S. Thesis Committee Member:

- 2018 Yang Guangdong, Department of Biostatistics and Bioinformatics, RSPH  
 2018 Julian Zhao, Department of Biostatistics and Bioinformatics, RSPH

2017 Jingning Ao, Department of Biostatistics and Bioinformatics, RSPH  
 2008 Sopio Chochua, MSCR, Esteban Gonzalez-Diaz, MSCR  
 2007 Si-Woon Park, MSCR  
 2007 Hemanth P. Nair, Biostatistics  
 2004 Rahimah Salimah Muhammad, Biostatistics  
 2001 Bei Ding, Department of Biostatistics  
 1998-1999 Nicole Gurior, Medical Genetics  
 1996-1997 Laura Gordon, Department of Biostatistics  
 1996-1997 Mei-Yu Chen, Department of Biostatistics  
 1990-1991 Elizabeth A. Brine, Nutrition & Dietetics, Indiana University

MSCR Students Thesis Mentor:

2019 Michael Arenson, Medical Student, School of Medicine  
 2019 Ashley Eason, Fellow, Pediatric Hematology/Oncology  
 2019 Andrew Ip, Fellow, School of Medicine  
 2019 Sujin Lee, Assistant Professor, Department of Pediatric Infectious Diseases  
 2019 Peggy Sahu, Resident Physician, Department of Gynecology and Obstetrics  
 2119 David Serota, Fellow, Division of Infectious Diseases  
 2019 Nate Summers, , Fellow, Division of Infectious Diseases  
 2019 Michael White, Fellow, , School of Medicine  
 2019 Howa Yeung, Assistant Professor, Department of Dermatology  
 2018 Jean Koff, Instructor, Department of Hematology and Medical Oncolog  
 2018 Albert Liao, Resident, Department of Medicine  
 2018 Anar Patel, Research Fellow, Department of Medicine  
 2018 Michael Woodworth, Research Fellow, Department of Medicine  
 2018 Sameer Halani, Research Fellow, Department of Medicine  
 2018 Ali Lopez-Aguiar, Resident, Department of Medicine  
 2017 Sara auld, Emory University School of Medicine  
 2017 Timothy Beaty Department of Pediatrics, Emory University School of Medicine  
 2017 Cecilia Ethun MD, Division of Surgical Oncology, Department of Surgery,  
 Emory University School of Medicine  
 2017 Tanya Hofmekler MD, Pediatric Gastroenterology, Herpetology and Nutrition,  
 Emory University School of Medicine  
 2017 Laura Scorr MD, Department of Neurology  
 Emory University School of Medicine  
 2017 Lisa Shandley, Emory University School of Medicine  
 2017 Joe Xie, Emory University School of Medicine  
 2017 Adisa, Olufolake MD, Emory University School of Medicine, Aflac Cancer and Blood  
 Disorders Center  
 2016 Kevin Seitz, Emory University School of Medicine  
 2016 Alanna Morris, MD, Assistant Professor of Medicine, Division of Cardiology  
 2016 Srikant Rangaraju, MBBS, Assistant Professor, Department of Neurology, Emory  
 University School of Medicine  
 2016 Jay Freeman, MD, Assistant Professor of Pediatrics, Division of Pediatric  
 Gastroenterology, Hepatology, and Nutrition, Emory University School of Medicine  
 2016 Nitya Bakshi, M.D., M.S. Senior Associate, Pediatric Hematology/Oncology, Emory  
 University School of Medicine  
 2016 Vyas-Read, Shilpa, Assistant Professor, Neonatology, Emory University School of  
 Medicine  
 2016 Raches Ella, Emory Global Health Institute  
 2015 Himalee Sabnis, Assistant Professor, Pediatric Hematology and Oncology, Emory  
 University School of Medicine  
 2015 Maddie Bertha, Graduate Student, Emory University School of Medicine

2015 Jennifer Felger, PhD, Assistant Professor, Psychiatry and Behavioral Sciences, Emory University School of Medicine  
 2015 Jesse Couk, Division of Infectious Diseases, Emory University School of Medicine  
 2015 Sujan Reddy, Division of Infectious Diseases, Emory University School of Medicine  
 2015 Ana Antun, Hematology and Oncology, Emory University School of Medicine  
 2014 Matthew D. Ramirez, M.D. Pediatric Hematology/Oncology Fellow, PGY-Children's Healthcare of Atlanta - Aflac Cancer Center  
 2014 Taofeek Owonikoko, MD. Winship Cancer Institute of Emory University Department of Hematology and Medical Oncology  
 2014 Lee A Hugar, Emory University School of Medicine, Class of 2014  
 2014 Jeff Holzberg, Pediatric. Emory University School of Medicine  
 2014 Ravi Mangal Patel, MD, Division of Neonatology, Emory University School of Medicine  
 2014 Christina Correnti, Emory School of Medicine  
 2014 Juanmarco Gutierrez, MD, Hubert Department of Global Health, AITRP Fogarty Fellow  
 2014 Pamela Bhatti, Georgia Tech University  
 2013 Thomas Cash, Fellow, Pediatric Hematology/Oncology  
 2013 Jordan Kempker, Fellow, Division of Pulmonary and Critical Care Medicine Emory School of Medicine Office  
 2013 Caleb Rutledge, Emory University School of Medicine  
 2013 Annie Winkler, Department of Pathology & Laboratory Medicine, Emory University School of Medicine  
 2013 Roshan Prabhu, Department of Radiation Oncology, Emory University School of Medicine  
 2013 Ashish Mehta, Medical ICU and Home Oxygen, Atlanta VA Medical Center  
 2007 Jeanne Visootsak, Department of Human Genetics  
 2006 Susmita Khatri, Susmita Prashar

Graduate Student Advising:

2002-2006 Jieqiong Bao  
 2001-present Huichao Chen  
 1999-2007 Reneé Moore  
 1998-2000 Jovonne Williams  
 1998-2000 Hye-Jin Pak

**MENTORING JUNIOR CLINICAL INVESTIGATORS:**

2017 Gander, Jennifer, Department of Surgery: Division of Transplantation  
 2009 Leslie J. Cloud, Neurology  
 2005 Susmita Mallik, Cardiology  
 2003-2004 David Pursell, Dept of Psychiatry  
 2003-2004 Anuradha Paranjape, Division of General Medicine, Grady Hospital  
 2002-2004 Sumita Khatri, Dept of Pulmonary Allergy and Critical Care Medicine  
 1996-1997 Dominique Musselman, Department of Psychiatry  
 1994-1998 Michael Byas-Smith, Department of Anesthesiology

**TEACHING AT EMORY:**

Courses Taught (RSPH and Graduate School):

2018 BIOS522: Survival Analysis Methods, 45 students  
 2019 BIOS509M: Fundamentals of Bioinformatics, 20 students

2016-2017	BIOS522: Survival Analysis Methods, 35 students
2010-2018	BIOS509M: Fundamentals of Bioinformatics
2010-2016	BIOS 780R, Advanced PHD Seminar
2009	BIOS509M: Fundamentals of Bioinformatics
	BIOS 780R, Advanced PHD Seminar
2008	BIOS509M: Fundamentals of Bioinformatics
	BIOS 780R, Advanced PHD Seminar
2007	BIOS 509: Overview of Methods for High Dimensional Data in Clinical Research
2007	BIOS 780R, Advanced PHD Seminar
2006	BIOS 706, Survival Analysis (2 credits), Fall
2006	BIOS 509: Overview of Methods for High Dimensional Data in Clinical Research
2005	BIOS 707, Theory of Linear Models (4 credits), Spring
2004	BIOS 707, Theory of Linear Models (2 credits), Spring
2003	BIOS 706, Survival Analysis (2 credits), Fall
2002	BIOS 520, Clinical Trials (2 credits), Spring
2001	BIOS 780R, Advanced PHD Seminar (2 credits), Fall
2001	BIOS 739, Longitudinal Data Analysis (2 credits), Spring
1999	BIOS 707, Linear Models (2 credits), Fall
1998	BIOS 707, Linear Models (2 credits), Fall
1998	BIOS 711, Statistical Inference II (4 credits), Spring
1997	BIOS 711, Statistical Inference II (4 credits), Spring
1996	BIOS 707, Linear Models (2 credits), Spring
1996	BIOS 711, Statistical Inference II (4 credits), Spring
1995	BIOS 501, Biostatistics II (4 credits), Spring
1994	BIOS 740, Linear Models (3 credits), Fall
1994	BIOS 722, Frailty Models (2 lectures in Dr. Halloran's class), Spring

#### Short Courses:

2005, 2006	Course Director, Biostatistics Summer Lecture Series
2000	Course Director, Continuing Medical Education (CME) course: Biostatistics Clinical Investigation
1998	Course Director, Continuing Medical Education (CME) course: Biostatistics Clinical Investigation
1996	Course Director, Continuing Medical Education (CME) course: Biostatistics for Physicians
1995	Course Director, Continuing Medical Education (CME) course: Biostatistics for Physicians

#### Other Teaching Seminars (School of Medicine):

2007	Lecture on "Biostatistics, Designs, Sample Size" nursing residents
2006	Lecture on "Biostatistics, Designs, Sample Size" nursing residents
9/1996-6/1997	Organized a clinical research seminar series for clinical investigators
4/1997	Organized a 3 lecture seminar series in statistical methods in genetics for the Spring
9/1996	Resources in Biostatistics Consultation at Emory, To Radiation/Oncology fellows
4/1996	Responsibilities of the GCRC Biostatisticians, To nurses
11/1995	Sample Size and Clinical Interpretations, To clinical and Basic Scientists
10/1995	Fundamental Statistical Analyses, To clinical and Basic Scientists.
12/1995	Biostatistics II, To clinical researchers
10/1995	Biostatistics I, To clinical researchers
1/1997-5/1997	Organized a seminar series for teaching statistical methods in genetics

4/1994 Biostatistical Methods for Clinical Research, To nurses and physicians

**OTHER TEACHING:**

2008 Writing: Statistician's Role" to MSCR students  
Spring 2002 Statistical Inference II, Reading Course to Renee Moore  
July 1995 Biostatistical and Epidemiological Methods for Clinical Research,  
Department of Medicine, University of Peradeniya, Sri Lanka

**PREVIOUS TEACHING EXPERIENCE:**

Courses Taught:

1992-1994 Introduction to Biostatistics, To graduate students, Course Director, Indiana University  
1990-1991 Introduction to Biostatistics, To clinical fellows, Indiana University  
1987-1989 Introduction to Statistics, To undergraduates, University of Rochester  
1978-1982 Calculus, To undergraduates, University of Colombo

Short Courses:

1993, 1994 continuing Medical Education (CME) course: Biostatistics for Physicians,  
Course Director, Indiana University

**MAJOR COMMITTEES:**

Biostatistics Department:

2015-2017 Co-Chair, Tenure-track /Tenured Faculty Search Committee  
2013-present Member, Advisory Committee to the Department of Biostatistics and Bioinformatics  
2009-present Chair, Donna Brogan Lecture Committee  
2009-2010 Member, Qualifying Examination Committee  
2008-2010 Member, ACTSI –BERD committee  
2007 Member, Strategic Planning Committee, Biostatistics  
2004-2005 Member, Recruitment of Tenure Track Faculty Committee  
2003 Member, Recruiting Committee  
2001-2002 Chair, Qualifying Examination Committee  
2000-2002 Chair, Diversity Committee  
1999-2001 Chair, Associate Faculty Search Committee  
2000-2001 Chair, Database Manager Search Committee  
1999-2002 Chair, Student Recruiting Committee  
1999 Member, Research Assistant Professor Search Committee  
1999-present Member, M.P.H./Ph.D. Recruiting Committee  
1998-1999 Co-Chair, Biostatistics Consulting Center  
1996-1997 Member, Assistant Professor Search Committee  
1999-2000 Member, Assistant Professor Search Committee  
1995-1997 Member, M.P.H./Ph.D. Recruiting Committee  
1994-1996 Member, Ph.D./M.S. Comprehensive Examination Committee  
1994-1997 Member, Collaborative Statisticians Committee  
1994-1996 Member, Cancer Biostatistician Search Committee  
1994-1995 Member, Curriculum Revising Committee  
1994-1995 Member, Booklet Committee

Rollins School of Public Health:

2002-present	Member, Appointment, Promotion Committee (APT)
2014-	Member, Research Advisory Committee, Rollins School of Public Health
2017	Member, Thomas Seller's Jr. Award Selection Committee, Rollins School of Public Health
2016 -	Chair, Thomas Seller's Jr. Award Selection Committee, Rollins School of Public Health
2008-2009	Member, Biostatistics and Bioinformatics Chair Search Committee
2007-2009	Member, Data Safety and Management Board (DSMB), "Improving Primary Medical Care for Patients with Mental Disorders". PI: B. Druss, MD, MPH
2004	Member, Committee charged with organizing the February 2004 Rollins School of Public Health panel discussion on diversity
2003-present	Member, Emory Mentored Clinical Research Scholar Program -K12 Executive Committee
2001-present	Member, CRCA/Masters of Science in Clinical Research Program (MSCR) Executive Committee
2002-2005	Member, Martin Luther King Jr. Community Service Awards Committee
2001-2002	Chair, Martin Luther King Jr. Community Service Awards Committee
1999-2001	Member, Martin Luther King Jr. Community Service Awards Committee
1999-2001	Member, Hubert Chair Religion and Health Search Committee
1997-1998	Member, Strategic Planning Steering Committee
1995-1997	Member, Shepard Award Committee
1996	Member, Self Study Committee

Emory School of Medicine:

2008-2015	Biostatistician, SAC –ACTSI Committee
1994-2008	Statistician, General Clinical Research Center Advisory Committee
1994-1996	Member, Clinical Research Review Committee at the Winship Cancer Center
1994-1995	Member, Seeding Grants Review Committee at the Winship Cancer Center

Emory University Activities:

2010, 2011	Member, Faculty Council
2009	Invited Panelist, Discussion on "Demystifying tenure and promotion at Emory". Invited by Women in Science at Emory (WISE).
2008	Member, Grievance Committee, Graduate School of Arts and Sciences
2004-2005	Member, University Research Committee
2002-2005	Member, CRCA/Masters of Science in Clinical Research Program Executive Committee
2003-2005	Member, Emory Mentored Clinical Research Scholar Program -K12 Executive Committee
2004	Participation in a meeting of Strategic Planning
2000-2006	Member, President's Commission of the Status of Women at Emory University
2002, 2004	Member, Emory Minority Graduate Fellowship Committee
2001	Discussion of Research Environment at Emory-Lunch Meeting with President Chase
2001	Participated in the Clinical and Population based Research Focus Group
2001-2002	Participated in the Search of faculty candidates in Department of Genetics



- 2001 A meeting with researchers at Grady Hospital regarding biostatistical Service
- 1999-2000 Meetings related to GCRC Bioinformatics Initiative in the School of Medicine

International Activities:

- 2019 March Evaluator for a PHD dissertation in Statistics (A. A., Sunethra), University of Colombo, Sri Lanka
- 2003 Oct. Invigilator for two examinations for a student (Mr. Mthunzi Gxashe) from University of South Africa, Pretoria.
- 2003 Feb. Invigilator for five examinations for a student (Mr. Ntuli Pumlan) from University of South Africa, Pretoria.
- 2003-2010 Second Examiner for Masters in Applied in Statistics, University of Colombo, Sri Lanka

**VOLUNTEER AND OTHER INTERESTS:**

Habitat for Humanity  
Gardening