

CURRICULUM VITAE

Name: Donald E. Mercante

Business Address: Biostatistics Program
LSU School of Public Health
2020 Gravier St
New Orleans, LA 70112

Business Telephone: (504) 568-5981
Business Fax: (504) 568-6075
E-mail Address: dmerca@lsuhsc.edu

Home Address: 114 Marina Blvd
Mandeville, LA 70471

Home Telephone: (985) 845-9826

Birthdate and Birthplace: July 18, 1955, Hammond, LA

Spouse: Teresita Musacchia Mercante (Married on 7/28/1978)

Children: Lorenza, Anna, Dominic

Citizenship: USA

Education:

Bachelor of Science	1977	Marine Biology	Nicholls State University Thibodaux, LA
Master of Science	1980	Fisheries Management	Mississippi State University Starkville, MS
Master of App.Stat.	1983	Applied Statistics	Louisiana State University Baton Rouge, LA
Doctor of Philosophy	1990	Statistics	Virginia Polytechnic Institute Blacksburg, VA (Eric P Smith, Advisor)

Career Development Courses:

Models for Discrete Repeated Measures, by Geert Verbeke and Geert Molenberghs,
2008 Joint Statistical Meetings, Denver, Colorado

Classification and Regression Trees (CART), Salford Systems, San Diego, CA, 2005

Regression Modeling Strategies, Group-Sequential Methods. Society for Clinical Trials
25th Annual Meeting, May 23-25, 2004. New Orleans, LA:

Clinical Epidemiology; Behavior Research in Dentistry. Summer Institute for Dental Research Methods, University of Washington, Seattle, WA, June-August, 2003:

Robust Statistics and Data Mining for Outliers with S-Plus, Seattle, WA, November 2002.

Survival Analysis using S-Plus. (Terry Therneau, PhD), Chicago, IL, 1997

Academic, Professional, and Research Appointments:

8/2013 – 8/2018	Associate Dean for Academic Affairs School of Public Health LSU Health Sciences Center, New Orleans
7//12006 – 8/2013	Director of Biostatistics School of Public Health LSU Health Sciences Center, New Orleans
7//12006 – present	Professor of Biostatistics School of Public Health LSU Health Sciences Center, New Orleans
7/1/2006 - present	Conjoint Professor of Genetics, LSU Health Sciences Center, New Orleans
7/1/2006 – present	Adjunct Professor of Experimental Statistics Department of Experimental Statistics LSU, Baton Rouge, LA
7/1/2002 – 7/2006	Associate Professor, Operative Dentistry and Biomaterials LSU Health Sciences Center, New Orleans
7/1/2004 – 7/2006	Adjunct Associate Professor of Experimental Statistics Department of Experimental Statistics LSU, Baton Rouge, LA
2002 – 2006	Conjoint Associate Professor of Biostatistics Dept. of Public Health & Preventive Medicine LSU Health Sciences Center, New Orleans
7/1/1996 – 7/1/2006	Conjoint Associate Professor of Genetics LSU Health Sciences Center, New Orleans
1999 – 6/30/2002 7/1/1996 – 6/30/2002	Director of Graduate Biostatistics Program Associate Professor of Biostatistics Dept. of Public Health & Preventive Medicine
9/1994 – 6/30/1996	Senior Statistician Abbott Laboratories, North Chicago, IL

1993 – 1994	Adjunct Professor of Biostatistics and Epidemiology Tulane University, New Orleans, LA
8/1990 – 8/1994	Assistant Professor Dept. of Biometry and Genetics LSU Medical Center, New Orleans
1/89 – 7/31/90	Senior Research Biostatistician Merrell Dow Research Institute Cincinnati, OH
9/85 – 12/88	Graduate Teaching Assistant Virginia Polytechnic Institute Blacksburg, VA
7/83 – 8/85	Research Associate Dept. of Pathology – Biostatistics Core LSU Medical Center, New Orleans
1/82 – 7/83	IBM Mainframe Assembler Language Programmer Pan American Life Insurance Company New Orleans, LA

Membership in Professional Organizations:

- American Statistical Association

Awards and Honors:

- Inducted into The Academy for the Advancement of Educational Scholarship at the rank of Master Teacher in 2007.
- DHHS – Ruth L. Kirschstein National Research Service Award (Univ. Wash.), June – September 2003, University of Washington, Seattle, WA.
- Delta Omega National Honor Society (Public Health)
- Mu Sigma Rho National Honor Society (Statistics)
- Pi Mu Epsilon National Honor Society (Mathematics)
- Delta Sigma Gamma National Honor Society (Agriculture)
- **Jack D. Hines III Memorial Award.** This award recognizes a faculty member who has exhibited outstanding commitment to the Graduate School., Awarded on November 5, 2021.

Teaching Experience/Responsibilities:

I have been involved with university-level teaching for nearly 30 years. While in graduate school at Virginia Polytechnic Institute (Virginia Tech) I was awarded a teaching

assistantship and was solely responsible for teaching sophomore undergraduate students introductory statistics in 3-hour, quarter-term courses. I taught these courses (STAT 2001/2002) a total of 8 times. After becoming a faculty member in Biometry at LSU Medical Center in New Orleans in 1990, I became integrally involved in the teaching of graduate students from biostatistics (biometry) and from other fields of study through a variety of course offerings.

Several of the courses I developed were incorporated into the Biostatistics curricula. These courses include BIOS 6302 Longitudinal Data Analysis, BIOS 6304 Design and Analysis of Experiments, BIOS 6314 Clinical Trials Methodology, and BIOS 7410 Teaching Practicum in Biostatistics. In addition, I have presented several new course offerings as special topics courses (BIOS 6500) including Advanced Design and Analysis of Experiments, Response Surface Methodology, and Advance Statistical Computing. To date, I have taught 179 classes covering the content of 18 courses. More than 85% of these courses were for 3- or 4-credit hours and I was the sole instructor.

Curriculum Development/Implementation

As Program Director of Biostatistics, I have worked hard to improve the curricula of the three degree programs in Biostatistics to ensure that our students receive the best possible education and training in the theory and application of Biostatistics. In the past five years, I have been successful in securing more than a half-million dollars in funding from the Louisiana Board of Regents for Graduate Fellowships for students in the School of Public Health's three PhD programs. I will continue to seek this and additional sources of funding for attracting the very best students to help propel our graduate programs towards nationally recognized programs of excellence. Some of my major accomplishments in curriculum development and implementation are briefly described below.

1990-1994: Developed a three-course sequence on design of experiments for MS/PhD students in Biometry (Biostatistics) that included BIOS 6304 Design and Analysis of Experiments, BIOS 6500 Advanced Design and Analysis of Experiments, and BIOS 6500 Response Surface Methodology.

1996-1998: Initiated and lead the effort to update the curricula for the Masters and PhD degrees programs in Biometry.

1999-2002: Served as Graduate Program Coordinator for MS and PhD programs in Biometry.

2002-present: Developed and taught two biostatistics courses for dental students and dental residents (under the DENT and ORAL BIOLOGY prefixes).

2004-2010: Developed a 10-part didactic workshop series on biostatistics/epidemiology concepts and methods as part of a mentoring series for junior faculty involved in oral health research.

2006-2007: Lead the effort to review, design, and update curricula for the Master of Science and Master of Public Health in Biostatistics, and the PhD in Biostatistics, which was approved by the Board of Regents in September, 2007.

2006-present: Continue to lead efforts for improving curricula in all three biostatistics programs (MPH, MS, PhD). Developed three new courses for the Biostatistics curricula:

BIOS 6302 Longitudinal Data Analysis, BIOS 6314 Clinical Trials Methodology, and BIOS 7410 Teaching Practicum in Biostatistics.

2011-2013: Participated as a primary writer on the self-study document submitted as part of the accreditation application to Council on Education for Public Health (CePH).

2014-2015: Lead the development of the LSU School of Public Health Strategic Plan. Participated as SPH representative for SACS re-accreditation.

2015-: Co-Lead the development of the LSU School of Public Health BS in Public Health degree proposal.

2017-: Lead the SU School of Public Health self-study for CePH re-accreditation.

Formal Course Responsibilities (Course Director for all courses listed) – **Lecture;**

Note: Number of credit hours, number of times taught, and number of years involved in aggregate summarize at end of listing.

Fall 1985-Fall 1989	+Eight Terms of Introduction to Statistics: STAT 2001/2002, V.P.I.
Fall 1990	Biometry 6115: Intro. to Biostatistics in the Health Sciences I BIOM 3115: Biostatistics for Undergraduate Nurses
Spring 1991	BIOM 7115: Intro. to Biostatistics in the Health Sciences II BIOM 3115: Biostatistics for Undergraduate Nurses
Summer 1991	BIOM 242: Design and Analysis of Experiments
Fall 1991	BIOM 6115: Intro. to Biostatistics in the Health Sciences I BIOM 3115: Biostatistics for Undergraduate Nurses
Spring 1992	BIOM 7115: Intro. to Biostatistics in the Health Sciences II BIOM 3115: Biostatistics for Undergraduate Nurses BIOM 224: Introduction to the Theory of Statistical Inference
Fall 1992	BIOM 6115: Intro. to Biostatistics in the Health Sciences I BIOM 3115: Biostatistics for Undergraduate Nurses
Spring 1993	BIOM 7115: Intro. to Biostatistics in the Health Sciences II BIOM 3115: Biostatistics for Undergraduate Nurses
Fall 1993	BIOM 6115: Intro. to Biostatistics in the Health Sciences I BIOM 3115: Biostatistics for Undergraduate Nurses BIOM 242: Design and Analysis of Experiments Biostatistics 603: Introduction to Biostatistics (Tulane University)
Spring 1994	BIOM 7115: Intro. to Biostatistics in the Health Sciences II BIOM 3115: Biostatistics for Undergraduate Nurses BIOM 281: Response Surface Methodology Biostatistics 603: Introduction to Biostatistics (Tulane University)
Fall 1994	BIOM 6115: Intro. to Biostatistics in the Health Sciences I BIOM 3115: Biostatistics for Undergraduate Nurses
Fall 1996	BIOM 6115: Intro. to Biostatistics in the Health Sciences I BIOM 221: Introduction to Biostatistics
Spring 1997	BIOM 7115: Intro. to Biostatistics in the Health Sciences II
Summer 1997	BIOM 242: Design and Analysis of Experiments
Fall 1997	BIOM 6115: Intro. to Biostatistics in the Health Sciences I BIOM 281: Advanced Design and Analysis of Experiments
Spring 1998	BIOM 267: Applied General Linear Models BIOM 7115: Intro. to Biostatistics in the Health Sciences II
Fall 1998	BIOM 223: Introduction to Theory of Probability BIOM 267: Applied General Linear Models

Spring 1999	BIOM 224: Introduction to Theory of Statistical Inference BIOM 242: Design and Analysis of Experiments
Fall 1999	BIOM 267: Applied General Linear Models BIOM 6115: Intro. to Biostatistics in the Health Sciences I
Spring 2000	BIOM 284: Advanced Theory of Statistical Inference II BIOM 227: Introduction to Statistical Programming BIOM 3115: Biostatistics for Undergraduate Nurses
Fall 2000	BIOM 267: Applied General Linear Models BIOM 6115: Intro. to Biostatistics in the Health Sciences I
Spring 2001	BIOM 222: Intro. to Biostatistics in the Health Sciences II BIOM 242: Design and Analysis of Experiments BIOM 3115: Biostatistics for Undergraduate Nurses BIOM 264: Clinical Trials and Sequential Methods
Fall 2001	BIOM 221: Introduction to Biostatistics (2 Sections) BIOM 223: Introduction to Theory of Probability BIOM 3115: Biostatistics for Undergraduate Nurses
Spring 2002	BIOM 222: Introduction to Biostatistics in the Health Sciences II BIOM 264: Clinical Trials and Sequential Methods
Fall 2003	Oral Biology 201: Fundamentals of Biostatistics
Spring 2004	BIOM 3115: Biostatistics for Undergraduate Nurses
Fall 2004	Oral Biology 201: Fundamentals of Biostatistics BIOM 3115: Biostatistics for Undergraduate Nurses
Spring 2005	BIOS 6264: Clinical Trials and Sequential Methods BIOM 3115: Biostatistics for Undergraduate Nurses
Summer 2005	*DENT 2111: Professional Development II (Biostatistics)
Fall 2005	Oral Biology 201: Fundamentals of Biostatistics BIOM 3115: Biostatistics for Undergraduate Nurses
Spring 2006	BIOS 6264: Clinical Trials and Sequential Methods BIOS 6221: Intro. to Biostatistics in the Health Sciences I BIOM 3115: Biostatistics for Undergraduate Nurses Oral Biology 201: Fundamentals of Biostatistics
Fall 2006	Oral Biology 201: Fundamentals of Biostatistics BIOM 3115: Biostatistics for Undergraduate Nurses *DENT 2111 Professional Development II (Biostatistics)
Spring 2007	BIOS 6242: Design of Experiments BIOS 6260: Longitudinal Data Analysis
Fall 2007	Oral Biology 201: Fundamentals of Biostatistics *DENT 2111 Professional Development II (Biostatistics)
Spring 2008	BIOS 6260: Longitudinal Data Analysis BIOS 6222: Intro. to Biostatistics in the Health Sciences II
Fall 2008	Oral Biology 201: Fundamentals of Biostatistics *DENT 2111 Professional Development II (Biostatistics)
Spring 2009	BIOS 6222: Intro. to Biostatistics in the Health Sciences II
Summer 2009	BIOS 6221: Intro. to Biostatistics in the Health Sciences I BIOS 6500: Advanced SAS programming
Fall 2009	BIOS 6100: Biostatistical Methods I
Spring 2010	BIOS 6102: Biostatistical Methods II
Summer 2010	BIOS 6100: Biostatistical Methods I
Fall 2010	BIOS 6100: Biostatistical Methods I
Spring 2011	BIOS 6302: Longitudinal Data Analysis
Summer 2011	BIOS 6100: Biostatistical Methods I

Fall 2011	BIOS 6500: Advanced SAS programming BIOS 6100: Biostatistical Methods I BIOS 6200: Principles of Applied Statistics
Spring 2012	DENT 1124 Introduction to Evidence Based Dentistry (8 lectures) BIOS 6102 Biostatistical Methods II BIOS 6202: Applied Linear Models
Fall 2012	BIOS 6500: Applied Linear Models Lab BIOS 6100: Biostatistical Methods I BIOS 6200: Principles of Applied Statistics
Spring 2013	DENT 1124 Introduction to Evidence Based Dentistry (8 lectures) BIOS 7410 Teaching Practicum in Biostatistics BIOS 6302 Longitudinal Data Analysis
Summer 2013	BIOS 6202: Applied General Linear Models
Fall 2013	BIOS 6100 Biostatistical Methods I BIOS 3115: Biostatistics for Undergraduate Nurses BIOS 6100: Biostatistical Methods I
Spring 2014	DENT 1124 Introduction to Evidence Based Dentistry (8 lectures) BIOS 7410* Teaching Practicum in Biostatistics BIOS 3115: Biostatistics for Undergraduate Nurses BIOS 6102: Biostatistical Methods II
Fall 2014	BIOS 7410* Teaching Practicum in Biostatistics BIOS 3115: Biostatistics for Undergraduate Nurses BIOS 6100: Biostatistical Methods I
Spring 2015	DENT 1124 Introduction to Evidence Based Dentistry (8 lectures) BIOS 7410* Teaching Practicum in Biostatistics BIOS 3115: Biostatistics for Undergraduate Nurses BIOS 6102: Biostatistical Methods II
Summer 2015	BIOS 6100 Biostatistical Methods I
Fall 2015	BIOS 3115: Biostatistics for Undergraduate Nurses BIOS 6100: Biostatistical Methods I
Spring 2016	DENT 1124 Introduction to Evidence Based Dentistry (8 lectures) BIOS 3115: Biostatistics for Undergraduate Nurses BIOS 6102: Biostatistical Methods II
Summer 2016	BIOS 6100 Biostatistical Methods I
Fall 2016	BIOS 3115: Biostatistics for Undergraduate Nurses BIOS 6100: Biostatistical Methods I (Nursing Section) BIOS 6100: Biostatistical Methods I (Public Health Section)
Spring 2017	DENT 1124 Introduction to Evidence Based Dentistry (8 lectures) BIOS 3115: Biostatistics for Undergraduate Nurses BIOS 6102: Biostatistical Methods II
Summer 2017	BIOS 6100 Biostatistical Methods I
Fall 2017	BIOS 3115: Biostatistics for Undergraduate Nurses BIOS 6100: Biostatistical Methods I (Nursing Section) BIOS 6100: Biostatistical Methods I (Public Health Section)
Spring 2018	DENT 1124 Introduction to Evidence Based Dentistry (8 lectures) BIOS 3115: Biostatistics for Undergraduate Nurses BIOS 6102: Biostatistical Methods II BIOS 7200 Theory of Linear Models
Summer 2018	BIOS 6100 Biostatistical Methods I
Fall 2018	BIOS 6100: Biostatistical Methods I (Nursing Section) BIOS 6100: Biostatistical Methods I (Public Health Section)

Fall 2018	DENT 1124 Introduction to Evidence Based Dentistry (8 lectures) BIOS 6100: Biostatistical Methods I (Nursing Section) BIOS 6100: Biostatistical Methods I (Public Health Section)
Spring 2019	DENT 1124 Introduction to Evidence Based Dentistry (8 lectures) BIOS 6102: Biostatistical Methods II BIOS 7200 Theory of Linear Models
Summer 2019	BIOS 6100 Biostatistical Methods I
Fall 2019	BIOS 6100: Biostatistical Methods I (Nursing Section) BIOS 6100: Biostatistical Methods I (Public Health Section) DENT 1124 Introduction to Evidence Based Dentistry (8 lectures)
Spring 2020	BIOS 6102: Biostatistical Methods II BIOS 7200 Theory of Linear Models
Summer 2020	BIOS 6100 Biostatistical Methods I
Fall 2020	BIOS 6100: Biostatistical Methods I (Nursing Section) BIOS 6100: Biostatistical Methods I (Public Health Section) DENT 1124 Introduction to Evidence Based Dentistry (8 lectures)
Spring 2021	BIOS 6102: Biostatistical Methods II BIOS 7200 Theory of Linear Models
Summer 2021	BIOS 6100 Biostatistical Methods I
Fall 2021	BIOS 7410* Teaching Practicum in Biostatistics BIOS 6100: Biostatistical Methods I (Nursing Section) BIOS 6100: Biostatistical Methods I (Public Health Section) BIOS 7410* Teaching Practicum in Biostatistics
Spring 2022	BIOS 6102: Biostatistical Methods II BIOS 7200 Theory of Linear Models
Summer 2022	BIOS 6100 Biostatistical Methods I
Fall 2022	BIOS 6100: Biostatistical Methods I (Nursing Section) BIOS 6100: Biostatistical Methods I (Public Health Section) BIOS 7410* Teaching Practicum in Biostatistics
Spring 2023	BIOS 3115: Basic Biostatistics BIOS 7200 Theory of Linear Models
Summer 2023	BIOS 6100 Biostatistical Methods I
Fall 2023	BIOS 3115: Basic Biostatistics BIOS 6100: Biostatistical Methods I (Public Health Section) DENT 1124 Introduction to Evidence Based Dentistry (8 lectures)
Spring 2024	BIOS 3115: Basic Biostatistics BIOS 7200 Theory of Linear Models

Notes:

+ 3-Credit hour quarter term courses.

* 2-Credit hour semester term courses.

BIOS 6100/6102 4-credits, all other courses are 3-credit hour per semester term.

**Departmental/Interdisciplinary Conferences –
Departmental Seminar Series:**

Chair, Biometry and Genetics Seminar Series Committee

Graduate Students Trained as Major Professor (14)

- Bei Zhang, M.S. Biostatistics, "*Testing the Hosmer-Lemeshow statistic, a goodness-of-fit statistic of the logistic regression model*", (2001).
- Xiaozhang Jiang, M.S. Biostatistics, "*Survival analysis of recurrent event data: an application to breast cancer with cross-validation and bootstrap resampling technique*", (2002).
- Lin Ma, M.S. Biostatistics, "*Regression toward the mean in 2x2 crossover designs with two baseline measurements*", (2003).
- Tong Yang, M.S. Biostatistics. "*Multiresponse permutation procedures and stepwise dependent variable selection algorithm*", (2003).
- Christopher Kyle, M.P.H. "*Screening for prostate cancer in Louisiana Health Care Services Division (HCSD) Hospitals using serum prostate specific antigen (PSA)*", (2003).
- Ginger Stagg, DDS, Pediatric Dentistry Residency Certificate Program. "*Parental attitudes toward behavior management techniques used in pediatric dentistry*", (2005).
- Terryl A Petropoulos DMD. Endodontics Residency Certificate Program. *The Effect of Pre-Operative Ibuprofen on the Success of Inferior Alveolar Nerve Block for Teeth with Irreversible Pulpitis*, (2005).
- Colin Van Hook, M.P.H. Biostatistics, Utility of a structural risk/needs assessment for prediction of violent behaviors for adolescents in a secure care facility. (2006).
- Candice Wilson, M.P.H. Biostatistics, "*Health Disparities in Louisiana*", (2007).
- Lauren Granen, M.P.H. Biostatistics, "*Examining Functioning of the Massachusetts Youth Inventory (MAYSI-2) in Louisiana's Juvenile Detention Population Using Rasch Analysis*", (2008).
- Donald Faust, M.P.H. Biostatistics, "*A Study of Variable Selection Methods in Logistic Regression Models*", (2012).
- Myungok Lee, PhD Biostatistics, "Analysis of Longitudinal Categorical Data with nonignorable dropout using shared random effects models ", May, 2012 (took over as working PhD advisor after Dr. Keunbaik Lee resigned in January, 2012)
- Yuan Zhou, PhD Biostatistics, "Inclusion of Second Stage Crossovers in Sequential Parallel Group Designs", PhD Advisor
- Omar Aldibasi, PhD Biostatistics, PhD Biostatistics, Co-Major Advisor (with Q Yu)
- Ruikun Zuo, PhD Biostatistics, PhD Biostatistics, in-progress
- Dachuan Zhang, PhD Biostatistics, PhD Biostatistics, in-progress

Mentored Medical Residents (8):

- Lacie Alfonso, MD, Donald Auzine, MD, Gloria Kung, MD. 2001. Association of diabetes, peripheral neuropathy, and dorsiflexion. Twelfth Annual Resident Research Day, Dept. of Medicine, Section of Physical Medicine and Rehabilitation, May 26.
- Joseph Morgan, MD, Anthony Jase, MD. 2001. Association between fibromyalgia and carpal tunnel syndrome. Twelfth Annual Resident Research Day, Dept. of Medicine, Section of Physical Medicine and Rehabilitation, May 26.
- Jawad Bhatti, MD, Scott Sondes, MD, Zeeshan Ahmad, MD. 2001. Clinical evaluation of RegranexGel for the treatment of full thickness diabetic neuropathic foot ulcers. Twelfth Annual Resident Research Day, Dept. of Medicine, Section of Physical Medicine and Rehabilitation, May 26.
- Kai-Lieh Chen, MD. 2001. The correlation between carpal tunnel syndrome and

- weight lifting. Twelfth Annual Resident Research Day, Dept. of Medicine, Section of Physical Medicine and Rehabilitation, May 26.
- Nidhi Purohit, MD, Mira Buskara, MD, Mansoor Hasan, MD. 2001. Assessment of safety and efficacy of Cox-2 inhibitors in RA patients, placebo-controlled, double-blind 52 week study. Twelfth Annual Resident Research Day, Dept. of Medicine, Section of Physical Medicine and Rehabilitation, May 26.
 - Steinhardt, Michelle. Does Time to Set point affect neurologic outcomes at 12 months and/or 18 months of age in neonates with HIE? LSUHSC Pediatric Residency Project. 2016-2017.
 - Christiansen, Brian. Risk Factors for Severe Complications of Operative Mandibular Fractures. Oral Surgery Resident
 - Maffei, Vincent. Analysis of frailty and aging in people living with HIV. MD/PhD student.

Mentored Dental Residents (27):

- Ioannis Vergoullis, DDS. Evaluation of Biopant LC (Light cured bone replacement graft material) Effectiveness and Handling in Mandibular Defects in the Rabbit.
- MaryAnne Brooks, D.D.S. Evaluation of Biopant LC (Light cured bone replacement graft material) Effectiveness and Handling in Skull Defects in the Rabbit.
- Scott W George, DDS. Effect of Formalin on the Microhardness of Dentin and Apical Microleakage in Obturated Canals
- Michael Pichardo DDS. Effects of 10% Formalin Fixation on Apical Leakage of Retrograde Super EBA, MTA and Geristore Restorations in Extracted Human Teeth.
- Jessie Hunter, D.D.S. Water Storage and Thermocycling Effects on Bond Strength and Microleakage using Three Dentin Bonding Systems
- Susan Chidlow, DDS. Sealant Microleakage of Pit and Fissure Cleaned with Pumice, Aluminum Oxide, and Sodium Bicarbonate.
- Chad C. Fulmer, DDS. Leakage and Crown Retention Properties of Bonded Restorations Placed Subsequent to Endodontic Access Preparation
- Terryl A Petropoulos DMD. The Effect of Pre-Operative Ibuprofen on the Success of Inferior Alveolar Nerve Block for Teeth with Irreversible Pulpitis
- Ginger Stagg DDS. Informed Consent: Verbal explanation compared to combination visual/verbal explanation of multiple behavior management techniques used in Pediatric dentistry.
- Scott George, DDS. Effect of Formalin on the Microhardness of Dentin and Apical Microleakage in Obturated Canals.
- Roger Grimball, DDS. Effects of Calcium containing and strontium containing Glass Ionomers on dentin hardness.
- Holly C Grayson, DDS. A Comparison of Strain and Microleakage Induced by Different Restorative Materials in Class I and Class II Preparations
- Priyanshi Ritwik, BDS. Retrospective Clinico-Pathologic Study of Peripheral Ontontogenic Fibroma.
- Nora Delgado-Velasquez, D.D.S. Histologic Evaluation of Alveolar Bone Removal With Diamond-Coated Cavitron Inserts in Dogs.
- Brian Evans, DDS. Evaluation of thrombin peptide TP508 effect on bone formation in the rabbit maxillary sinus.

- Jason Timmons, DDS. Effects of Third Molar Eruptions On Lower Insisor Crowding After Orthodontic Treatment.
- M. Waite, DDS. Hardness and Depth of cure of 12 Composites Cured with a LED Curing Light.
- Robin Hicks, DDS. Hardness of Eight Composites Cured with Two LED Curing Lights.
- JL Chapman, DDS. Enamel and Dentin Bond Strengths of Four Bonding Agents at Three Times After Curing.
- Stacy R. Tolbert, DDS. Effects of microtensile bond strengths between adhesive cement and root canal dentin by using micro brushes and three cleaning agents.
- George H. Arch Jr., D.D.S. Failure of Endodontic Therapy in HIV+ patients compared to non HIV+ patients: a Retrospective Study.
- Jared R. Fortman, DDS. Effects of Internal Bleaching Chemicals and Sodium Hypochlorite on the Sealing Ability of MTA When Used as a Coronal Barrier.
- J. Jared Harmon DDS. The Effect of the Neurosteroid DHEA on Experimental Endodontic Inflammation Caused by Freund's Adjuvant.
- Tessa M. Smith, DDS. Influence of Preparation Design on Shrinkage Stresses Induced by Composite Resin.
- Melanie M. Fowler, DDS. Mechanical Stresses influence the gene expression of Periodontal Ligament Fibroblasts.
- Deborah R. Robbins, DDS. Effects of Platelet Rich Plasma on the Differentiation and Proliferation of Osteoblasts InVitro.
- Alaa A. Moustafa, BDS. Validity of the ARCUS DIGMA System.

Thesis and Dissertation Committees (70):

Ann Caruth, DNS Nursing
 Sean McKown, PhD Biometry
 Carroll Diaz, PhD Biometry
 April Zafarian, DNS Nursing
 Ruth Davis, DNS Nursing
 Denise Danna, DNS Nursing
 Rodolfo Vargas, MS Biometry
 Robert Koch, DNS Nursing
 Daner Li, MS Biometry
 Jeremy O'Neal, MS Pathology
 Gary Michael Reiss, MPH
 Budong Wang, M.S. Biometry
 Kristin Van Hook, MPH
 Xing Cheng, PhD Genetics
 Brian Evans, MS Oral Biology
 Jonathan Kaplan, MPH
 Colin Van Hook, MPH
 Julie Grender-Myers, PhD Biometry
 Kim Pedersen, PhD Biochemistry
 Robbie Beyl, MS Biostatistics
 Xiejun Zhang, MS Biostatistics
 Myungok Lee, PhD Biostatistics
 Shengping Yang, PhD Biostatistics
 Robbie Beyl, PhD Biostatistics
 Elizabeth Levitsky, PhD Epidemiology

Anne Marie Kelly, PhD Biometry
 Warren May, PhD Biometry
 Ann Qian, MS Biometry
 Christina Quinn, DNS Nursing
 Katie Babineau, DNS Nursing
 Celeste Carter, DNS Nursing
 Charles Sledge, MS Biometry
 Angelique White, MNS Nursing
 Benjamin Canales, MPH
 William West, MS Pathology
 Wanda Spurlock, DNS Nursing
 Fred G'Sell, M.S. Biometry
 Adam Spanier, MPH
 Elizabeth Carlson, DNS Nursing
 David Lirette, PhD Pathology
 Christopher Kyle, MPH
 Candice Wilson, MPH
 Xiaomin Xu, PhD Biometry
 Margarita Saenz, PhD - UNO
 Timothy Tassin, MS Biostatistics
 Donald Faust, MPH Biostatistics
 Ying Fan, PhD Biostatistics
 Jeffrey Burton, PhD Biostatistics
 Elisa Ledet, PhD Genetics
 Jennifer Berken, PhD Biostatistics

Roufei Du, PhD Biostatistics
 Han Zhu, PhD Biostatistics
 Yi Zhai PhD Biostatistics
 Yaling Li, MS Biostatistics
 Ondrej Blaha PhD Biostatistics
 Lin Zhu PhD Biostatistics
 Xinnan Wang PhD Biostatistics
 Heng-Yuan Tung PhD Biostatistics
 Harun Mazumder PhD Biostatistics
 Qiufan Fu PhD Biostatistics

Yuan Zhou, PhD Biostatistics
 Husam Ardah, PhD Biostatistics
 Denise Danos, PhD Biostatistics
 Mary Moore, MS Biostatistics
 Omar Aldibasi PhD Biostatistics
 Christine Watters PhD Biostatistics
 Paige Fisher PhD Biostatistics
 Wentao Cao PhD Biostatistics
 Xiaodan Zhu PhD Biostatistics
 Soham Mahato PhD Biostatistics

Grants and Contracts:

Funded:

Recently Completed

P20 RR20160 (Fidel)	09/03/04 – 07/31/09	3.0 calendar (25%)
NIH/NCRR		\$118,943 (Statistical Core)
<i>Mentoring Oral Health Research in Louisiana</i>		\$1,392,158 (Entire Project)
Role: Leader, Statistical Core		

The major goals of this project are to develop four promising junior faculty members in four research foci involving oral health anomalies. These include oral infectious disease and oral restoration. The junior principal investigators are mentored by a team of mentors with expertise in the actual area of oral health research. An Administrative Core, Biomedical Equipment Core, and Statistical Core aid the mentoring process along with a significant scientific communication infrastructure.

H97HA07512 (Leigh)	09/01/06 – 08/31/11	1.2 calendar (10%)
HRSA		\$363,636
<i>Special Programs of National Significance, Smile Again New Orleans</i>		
Role: Co-I		

This study was initiative to provide oral health care services to the HIV- positive and at-risk population of Greater New Orleans using a mobile dental van. It is a collaborative effort with the LSU School of Dentistry, MCLNO, and the HIV Outpatient Program/HOP. Partners include the [NO/AIDS Task Force](#), N`R Peace, and the Covenant House.

LEQSF (2011-2016) – GF-10 (Mercante)	8/1/12-7/31/16	0.6 Calendar (In-Kind)
Louisiana Board of Regents Support Fund		\$52,000/yr
<i>Recruitment of Superior Doctoral Students in Public Health Sciences</i>		
Two fellowships from the La. Board of Regents provides stipend support for two PhD students in biostatistics, community health sciences and epidemiology at LSUHSC.		

1R01DE022815-01A1 (Fidel, Hagensee, Leys, Griffen)	.36 calendar
NIH/NIDCR	\$406,389
<i>The Oral Microbiome in HIV-associated Oral Warts and Candidiasis</i>	

The goals of this study are to 1) identify the effects of HIV on the oral bacterial microbiome, 2) identify the effects of antiretroviral therapy on the oral bacterial microbiome, and 3) to determine the associations of the oral bacterial microbiome on the oral manifestations of HIV, including oral candidiasis and HPV-associated oral warts and head/neck squamous cell carcinoma

Role: Biostatistician

LEQSF (2012-2017) – GF-04 (Mercante) 8/1/13-7/31/17 0.6 calendar
(In-Kind)

Louisiana Board of Regents Support Fund \$52,000/yr
Recruitment of Superior Doctoral Students in Public Health Sciences

Two fellowships from the La. Board of Regents provides stipend support for two PhD students in biostatistics, community health sciences and epidemiology at LSUHSC.

LEQSF (2013-2018) – GF-07 (Mercante) 8/1/13-7/31/18 0.6 Calendar (In-Kind)

Louisiana Board of Regents Support Fund \$52,000/yr
Recruitment of Superior Doctoral Students in Public Health Sciences

This grant from the La. Board of Regents provides stipend (fellowship) support for two PhD students in Public Health at LSUHSC.

1U54GM104940 (Cefalu) 8/1/12 -7/31/17 1.8 calendar months
NIH/NIGMS \$1,605,802

LaCats: Louisiana Clinical and Translational Science Center
Role: Site Facilitator

2P60AA009808-22 (Molina) 12/10/2014 – 11/30/2019
1.2 calendar months

NIH/NIAAA

LSUHSC-NO Comprehensive Alcohol-HIV/AIDS Research Center

This project extends well-established alcohol research in primate models to translational clinical studies

1U01 AA021995-01 (Molina) 9/13/12 - 9/13/17
1.2 calendar months

NIH/NIAAA \$1,886,942 total direct costs

HIV/AIDS & Alcohol-Related Outcomes:Translational Evidence-Based Interventions

This project seeks to develop translational evidenced-based interventional research in populations with alcohol dependence and who have HIV.

1R15MD012387 (Yu)
9/24/2017-5/31/2020

0.6 cal.

NIH/NIMHD

\$438,000

Multilevel Mediation Analysis to Explore Racial Disparities in Breast Cancer Recurrence and Survival using CDC Special Studies

Role: Co-I

The major goal of this project is to develop multiple mediation analysis method to explore racial disparities in breast cancer patients.

3P42ES013648-09S2 (PI: Cormier, Site PI: Yu) 9/2/2021 - 1/31/2022 1.2 cal
NOSI to Support Enhancement of Software Tools for Multilevel Mediation Analysis for
Investigating Effects of Environmental and Individual Risk Factors on Respiratory
Diseases.

Role: Co-Investigator

This project for an administrative supplement is to develop a scalable cloud-based
platform for implementing our novel multiple hierarchical mediation analysis
methodology. The proposed software development will enhance the toolset available to
the DMAC for estimating and testing the mediating effects of EPFRs and other factors on
poor respiratory outcomes in children. Additionally, it will allow our comprehensive
program to be more widely accessible to researchers in any field of inquiry.

Ongoing

Ongoing Research Support

1 U54 GM104940 (Kirwan) 8/1/17 -7/31/22 2.0 cal.
NIH/NIGMS

LaCats: Louisiana Clinical and Translational Science Center

This project seeks to foster and develop translational research in Louisiana.

R01HD091089-01A1 (Moreau) 9/1/17-
8/31/22 0.36-0.6 cal.
NIH/NICHD

\$438,624

Title: Power Training Combined with Interval Treadmill Training to Improve Walking
Activity in Cerebral Palsy

The goal of this study is to determine if remediating the most pronounced muscle
performance impairment (i.e., muscle power) with power training combined with a task-
specific approach to walking that is developmentally appropriate will have a significant
effect on walking capacity and performance.

Role: Biostatistician

5 P42 ES013648-07 (Cormier - PI) (1/1/20 to 12/31/24); NCE 1.8 cal.
NIH/NIEHS \$12,771,050
LSU Superfund Research Center—Environmentally Persistent Free Radicals.
Data Management and Analysis Core (DMAC)

The mission of the DMAC is to provide integrative data management and statistical
support and innovative solutions to the LSU Superfund Research Center.

Role: Core Leader

1 UG1 HD107696-01 (Ravussin - PI) (12/10/21 - 11/30/26) \$1,242,018 yr1 1.2 cal.
107696-LSUHSCNO-01 (Shellito PI) Subaward \$296,919 yr1
NIH/NIDDK

LAAZ-NPH Clinical Center.

The goal of this study is recruit at least 2000 All of Us participants into Module 1, 300 into free-living module2, and 100 domicile participants into module three as part of a national collaborative precision medicine in nutrition study.

Role: Biostatistician

2R15MD012387-02 (Yu)

8/07/2022-7/31/2025

0.6 cal

Trends of disparities in breast cancer progression and health care considering multilevel risk factors

Role: Co-Investigator

Performance period:

Supporting agency: NIH/ NIMHHS

The overall objectives are to develop single- and multi-level moderation analysis methods that adopt recently developed data mining and machine learning techniques in the general mediation analysis. The propose methods will provide a mechanism for making inferences on effects of risk factors on observed health disparities from both individual and environmental levels

Research Review Committees/Professional Service

- Peer Site Reviewer Training, Graduate Assistance in Areas of National Need (GAANN). Program administered by the Program Monitoring and Information Technology Service (PMITS), US Dept. of Education.
- *Judge*, The 2007 Annual Biomedical Research Conference for Minority Students (ABRCMS), November, 2007, Austin, TX.
- *Past member*, Section on Teaching of Biostatistics in the Health Sciences, American Statistical Association
- Biostatistician, Data Safety Monitoring Board: Phase I Studies of AQ-13 with Chloroquine, Tulane University/LSU-HSC GCRC at Charity Hospital
- Biostatistician, Data Safety Monitoring Board: Phase II Studies of AQ-13 with Chloroquine, Tulane University Health Sciences Center

Peer review grant proposal panels (partial list of 48 review panels):

- Scientific Reviewer, Department of Defense (DoD) Prostate Research Program
- Scientific Reviewer, Foundation for the NIH, 2004 Grand Challenges in Global Health GCGH Goal 7
- Scientific Reviewer, Dept. of Defense 2005 Prostate Clinical Trial Award 2005
- Scientific Reviewer, Dept. of Defense 2005 Prostate Clinical Consortium Award 2005
- Scientific Reviewer, Dept. of Defense 2007 Post Traumatic Stress Disorder and Traumatic Brain Injury (PTSD/TBI) Research Program
- Scientific Reviewer, Dept. of Defense 2008 Prostate Cancer Clinical Trial Award
- Scientific Reviewer, Susan G. Komen for the Cure Grants Program, Career Catalyst in Disparities Research #1
- Scientific Reviewer, Dept. of Defense 2009 PTSD/TBI Therapeutic

- Scientific Reviewer, Dept. of Defense 2009 Prostate Cancer Research Program
- Scientific Reviewer, Susan G. Komen for the Cure Grants Program, Epidemiology Research Awards
- Scientific Reviewer, Dept. of Defense 2010 Prostate Cancer Research Program
- Scientific Reviewer (Ad Hoc), Dept. of Defense 2010 Prostate Cancer Research Program
- Scientific Reviewer, 2011 Susan G. Komen for the Cure Grants Program
- Scientific Reviewer, Dept. of Defense 2011 Spinal Cord Injury Research Program
- Scientific Reviewer, Dept. of Defense CDMRP PH/TBI- Teleconference Review.
- 2012 Scientific Reviewer. Dept. of Defense CDMRP. 2012 Gulf War Injury Research Panel (GWIRP) Research Treatment Evaluation Award,
- 2013 Scientific Reviewer. Dept. of Defense CRMRP. Restorative Transplantation Research Cooperative Agreement (RTRCA)
- Scientific Reviewer. Dept. of Defense CRMRP. 2013 Psychological Health/ Traumatic Brain Injury Research Program Peer Review Meeting
- Scientific Reviewer. Dept. of Defense 2014 Defense Medical Research and Development Program Peer Review Meeting
- Scientific Reviewer. Dept. of Defense CRMRP. 2013 Clinical and Rehabilitative Medicine Research Program
- 2014 CRMRP Neurosensory and Rehabilitation - Scientist Reviewer
- 2014 DMRDP Scientist Reviewer
- 2014 DMRDP Teleconference Reviewer
- 2014 GWIRP Teleconference Reviewer
- 2014 JWMRP Teleconference Reviewer
- 2014 PRMRP Ad hoc - Online Reviewer
- 2014 PRMRP Clinical Trial Award - Scientist Reviewer
- 2015 CRMRP Neuromusculoskeletal Injuries Research - Clinical Trial - Scientist Reviewer
- 2015 RTR Translational Research - Scientist Reviewer
- 2016 DMRDP Hemorrhagic Shock - Scientist Reviewer
- 2016 GWIRP Applied Research - Scientist Reviewer
- 2016 PRORP Rehabilitation - 2 - Ad Hoc Reviewer
- 2016 PRORP Surgical Care - 2 - Scientist Reviewer
- 2017 Defense Medical Research and Development Program-Hearing and Balance Research-2
- 2017 PRORP Clinical Trial - Surgical Care - Scientist Reviewer
- 2017 RTR Preservation, Monitoring and Rehabilitation - Scientist Reviewer
- 2018 DMRDP Trauma - 1 - Scientist Reviewer
- 2018 MRMC Broad Agency Announcement for Extramural Medical Research - Military Operational Medicine
- DoD Scientific Reviewer for 67 panels from 2002-2022

Editorial Posts and Activities:

Journal editorships or associate editorships

ASSOCIATE EDITOR (Retired 2006), Journal of Statistical Computation and Simulation, Taylor & Francis Publishers, United Kingdom.

EDITORIAL ADVISORY BOARD of Drug Metabolism and Disposition (2015-present)

Ad-Hoc Reviewer

The American Statistician
Computer Methods and Programs in Biomedicine
Prenatal Diagnosis
Cardiovascular Toxicity
Nurse Education in Practice
Drug Metabolism and Disposition

University/Institutional Service:

Chair, Chancellor's Award 2021, 2022
Chair, Graduate Faculty Committee, 2019-2021
Member, Graduate Faculty Committee, 2019-

Departmental committees

Chair, Biometry & Genetics Computing Committee
Biometry and Genetics Graduate Program Admissions Committee
Masters of Public Health Graduate Program Admissions Committee
MPH Accreditation Committee
Chair, Masters of Biostatistics Graduate Program Committee

School of Public Health committees

Chair, 2014-2019 Strategic Planning Committee
Administrative Council
Chair, SPH Appointments, Promotions and Tenure Committee
Scholarship Committee (Ad-Hoc)
Chancellor's Award
Curriculum Committee (*ex-officio*)
Evaluation Committee (*ex-officio*)

School of Dentistry committees (past)

Student Research and Grants
Oral Biology Masters Program
Center for Craniofacial Biology Needs Assessment Survey Committee.
Developed, administered online, analyzed, and presented results of a survey to assess needs for planning center activities in preparation of an infrastructure grant to enhance research at LSUSD.

LSUHSC committees

- LSU-HSC Chair, Graduate Faculty Committee, Graduate Advisory Council (2018-21)
- LSU-HSC Member, Graduate Faculty Committee, Graduate Advisory Council (2021-)
- LSU-HSC IT Committee

- LSU-HSC Graduate Advisory Council (2010-)
- LSU-HSC Chancellor's Award Committee 2022, Chair
- LSU-HSC Chancellor's Award Committee 2021, Chair
- LSU-HSC Chancellor's Award Committee 2020
- LSU-HSC Chancellor's Award Committee 2017
- LSU-HSC Chancellor's Award Committee 2012
- LSU-HSC Chancellor's Award Committee 2011
- LSU-HSC Chancellor's Award Committee 2008 (Chair)
- LSU-HSC Department of Genetics, Search Committee, 2008
- LSU-HSC Graduate Advisory Council
- Graduate Faculty Admissions Committee
- LSU-MC Finance Committee

LSUHSC Service

- SACS Accreditation Writing Committee 2014-15
- School of Public Health CePH Accreditation Writing Committee
- LSU-HSC Teaching Academy Executive Council founding member
- Judge, Annual School of Graduate Studies Research Day (multiple times).
- Judge, Annual School of Dentistry Research Day (twice)
- Development of World Wide Web pages for Department of Biometry and Genetics and Statistical Consulting Center and Biostatistics Core, School of Dentistry
- Partnership Program between LSU-HSC and N.O. Public Elementary School
- Science Teachers. Rhoda Reddix, Chair. Developed and analyzed survey used to assess needs of elementary school science teachers in Orleans Parish.
- Graduate Advisory Council, LSUHSC School of Graduate Studies
- LSUHSC Teaching Academy

Administrative Responsibilities:

Associate Dean for Academic Affairs, School of Public Health, LSU-HSC-NO

Responsible for reviewing, developing and enacting policy relating to academic programs and curricula involving students. Responsible for overseeing recruiting, retention, and promotion of faculty. Oversee and provide direction to Office of Admissions.

Biostatistics Program, School of Public Health, LSU-HSC-NO (past)

Director of Biostatistics program, which includes managing a group of 9 PhD faculty and one masters level instructor. Revising and developing new PhD program in Biostatistics. Recruiting new faculty into the department. Recruiting and obtaining funding for PhD students in Biostatistics.

Department of Public Health and Preventive Medicine, School of Medicine, LSU-HSC-NO (past)

Administered the graduate programs (M.S. and PhD) in Biometry from 1999-2002. This involved organizing and chairing sessions on student recruitment and financial aid decisions including acting as the liaison with the graduate school, maintaining close and open communication with students before and during their time in the Biometry programs, reviewing and coordinating assistantships and student worker assignments, organizing and running the qualifying and preliminary exams, and in general ensuring that students were properly advised and met important time lines to ensure all criteria were met for graduation.

School of Dentistry, LSU-HSC-NO

Since August, 2004 I have been the Principal Investigator responsible for managing the Biostatistics Core at the School of Dentistry in New Orleans. This has involved recruiting, hiring and directing the activities of a Master's level biostatistician who joined the Biostatistics Core at the academic rank of Instructor in January, 2005.

Community Service Activities:

Volunteer, Habitat for Humanity, Covington, LA. Assist Habitat employees and homeowner along with other volunteers in various activities of home construction.

Volunteer, City Park, New Orleans, LA. Volunteered on several occasions in cleaning and grounds maintenance post-Katrina.

Volunteer, Knights of Columbus and St Peter Church Men's Club, Covington, LA. Volunteer numerous times in charitable activities ranging from fish fries during Lent to parish fair.

Volunteer, assisted in timing swim heats at local, regional and state USA swim meets for last four years.

Papers Presented: (include, and ideally segregate, scientific presentations, plenary lectures, refresher courses, CME or society lectures, etc)**Invited Papers:**

1. Thompson HT, **DE Mercante** and C Burgoyne (1997). Statistical methods for the detection of glaucomatous change in a series of digital images from the laser ophthalmoscope. Invited Talk at American Statistical Association Winter Meeting, Pensacola, FL.
2. Thompson HT, **DE Mercante** and C Burgoyne (1997). Statistical strategies for change detection in optic nerve head digital images. Invited Talk at Finnish Eye Research Association, Tampere, Finland.

Scientific Presentations:

1. Johnson WD and **DE Mercante** (1991). Ridge estimators in multiple group

- discrimination. IMSL User Group North American Conference, Washington, DC.
2. Townsend MH, D Mancuso, JG Barbee and **DE Mercante** (1991). Generalized anxiety disorders: long-term outlook. Poster presentation at American Psychiatric Association Annual Meetings, New Orleans, LA.
 3. **Mercante DE** and WD Johnson (1992). The analysis of small sample multivariate data with applications in clinical trials. Biometric Society Spring Meetings, Cincinnati, OH.
 4. **Mercante DE** and WD Johnson (1992). The analysis of small sample multivariate data. Joint Meetings of the American Statistical Association and Biometric Society, Boston, MA.
 5. Thompson HT, **DE Mercante**, WD Johnson, J Reidy and RW Beuerman (1993). Statistical analysis of corneal wound closure with a method sensitive to changes in the time course of healing. American Ophthalmological Association Annual Meeting.
 6. **Mercante DE** and WD Johnson (1993). Estimation and hypothesis testing for switching regression with estimated change points in longitudinal data. Biometric Society Spring Meetings, Philadelphia, PA.
 7. Johnson WD and **DE Mercante** (1993). Application of a multivariate permutation test in randomized block designs. Biometric Society Spring Meetings, Philadelphia, PA.
 8. **DE Mercante** and WD Johnson (1993). Applications of the IML procedure for multiple response permutation tests. SUGI Conference, New York, NY.
 9. Barbee JG, MH Townsend, and **DE Mercante** (1993). Monthly follow-up study of patients with GAD. American Psychiatric Association Meetings, New Orleans, LA.
 10. **Mercante DE** and WD Johnson (1993). The analysis of small sample longitudinal data in clinical trials. Joint Meetings of the American Statistical Association and Biometric Society, San Francisco, CA.
 11. Johnson WD and **DE Mercante** (1994). Analyzing multivariate data in crossover designs using permutation tests. Joint Meetings of the American Statistical Association and Biometric Society, Toronto, Canada.
 12. Arnett JL, CB Dodrill, **DE Mercante**, GA Schaller, KW Sommerville and VS Shu (1995). Evaluation of the effects of tiagabine HCl on cognitive-functioning and adjustment in patients with epilepsy. American Epilepsy Society Annual Meeting, Baltimore, MD.
 13. Arnett JL, **DE Mercante**, G Lenz and KW Sommerville (1995). Changes in mental abilities and psychosocial adjustment with conversion to tiagabine monotherapy. AAN Annual Meetings.
 14. Dodrill CB, JL Arnett, KW Sommerville, VS Shu and **DE Mercante**, G Lenz and H Mengel (1995). Tiagabine neuropsychology, mood and psychosocial effects. International Epilepsy Society Meetings, Sydney, Australia.
 15. Boellner S, J McCarty, **DE Mercante** and KW Sommerville (1996). Pilot study of tiagabine in children with partial seizures. Second European Congress of Epileptology, The Hague, The Netherlands.
 16. Biton V, S Boellner, **DE Mercante**, H Phillips, G Alto and KW Sommerville. Monotherapy with tiagabine in an open-label study of partial seizures. Second European Congress of Epileptology, The Hague, The Netherlands.
 17. **Mercante DE** (joint work with MB Blauwet and WD Johnson). Approximate F-tests based on ranks for multivariate data in the randomized complete block design. Joint Meetings of the American Statistical Association and Biometric Society, Anaheim, CA. August 1997.
 18. Burgoyne CF, HW Thompson, **DE Mercante**, and RW Amin. Basic issues in the sensitive and specific detection in optic nerve head surface change within

- longitudinal LDT TopSS image: Introduction to the LSU experimental glaucoma (LEG) study. Presented at the Symposium for Optic Nerve Head Imaging at the Millennium, Amsterdam, The Netherlands, 1999.
19. Folse YS, C Nichols, S Kishner, **DE Mercante**. Correlation of hemiplegic shoulder with diabetes. Presented at the Tenth Annual Residents/ Fellows Research Day, LSU-MC, New Orleans. June 4, 1999.
 20. Morstead R, S Kishner, **DE Mercante**. Risk factors in carpal tunnel syndrome; Case study. Presented at the Tenth Annual Residents/ Fellows Research Day, LSU-MC, New Orleans. June 4, 1999.
 21. Chandrhasa, U, P Kumar and **DE Mercante**. The influence of multiple pregnancies on renal allograft outcome. American Federation for Medical Research, Southern Regional Meeting, February 21-23, 2002.
 22. Dixit, S., K Fontenot, S Gupta, P Kumar, **DE Mercante**. The cost and benefits of herbal supplements. American Federation for Medical Research, Southern Regional Meeting, February 21-23, 2002.
 23. Hickey, KG, JG Jollis, JP Zidar, **DE Mercante**, and JE Tchong. Emergent coronary artery bypass grafting after failed percutaneous coronary intervention with Abciximab: The Duke Experience. LSU-HSC Dept. of Medicine Research Day, February 1, 2002.
 24. Vitalpur G, C Moore, R Mangat, R Mouallem, **D Mercante**, M Mvula, and P Kumar. Allergic rhinitis and asthma severity among children using the emergency room for asthma care. Annual Meeting of American College of Allergy, Asthma, & Immunology. San Antonio, TX, November, 2002.
 25. Burgess, LO, P Castellon, and **D Mercante**. Shear bond strength of three core materials to dentin bonded with light cure or dual-cure. 32nd Annual Meeting of AADR, March 12-15, 2003, San Antonio, TX.
 26. Shannon MJ, SE Mohamed, AJ Raigrodski, and **DE Mercante**. The Effect of a Single Dose of Kava on the EMG Activity of the Masseter Muscle: A Double-Blind Crossover Pilot Clinical Study. The 81st General Session of the International Association for Dental Research. June 25-28, 2003, Goteborg, Sweden.
 27. N Potiket, GJ Chiche, IM Finger, **D Mercante**, and MB Blatz. In vitro Fracture Strength of Teeth Restored with Different Procera All-ceramic Crowns. The 81st General Session of the International Association for Dental Research. June 25-28, 2003, Goteborg, Sweden.
 28. Raigrodski AJ, GJ Chiche, N Potiket, JL Hochstedler, SE Mohamed, S Billiot, and **DE Mercante**. Clinical efficacy of Y-TZP- Based Posterior Fixed Partial Dentures. The IADR/AADR/CADR 83rd General Session, March 9-12, 2005, Baltimore, MD.
 29. Yukna R, S Vastardis, B Evans, R Malloy, R Carr and **D Mercante**. Thrombin Peptide TP508 Enhances Bone Formation in Rabbit Maxillary Sinus. The IADR/AADR/CADR 83rd General Session, March 9-12, 2005, Baltimore, MD.
 30. Blatz, MB, L Chapman, G Chiche, and **D Mercante**. Shear Bond Strength of Veneering Ceramics to Zirconium-oxide Ceramic. 35nd Annual Meeting of AADR, March 8-11, 2006, Orlando. FL.

Seminars and Invited Presentations:

Invited Speaker:

1. **Mercante DE** (1997). On design and analysis in clinical trials. Invited speaker, SUN Program, LSU Medical Center, New Orleans, LA.

2. **Mercante DE** (1997). Design and analysis issues in clinical trials. Invited speaker, LSUMC School of Nursing, LSU Medical Center, New Orleans, LA.
3. **Mercante DE**. Biometrical Applications: Modeling Clinical Trials: Clinical Trial Design and Analysis, Invited guest lecturer: Introduction to Medical Informatics, Pathology 203. February 3, 1998.
4. **Mercante DE**. Modeling of Clinical Trials, Invited guest lecturer: Introduction to Medical Informatics, Pathology 203. February 23, 1999.
5. **Mercante, DE**. 2000. Designing clinical trials. Invited speaker, Medical Informatics Course, LSU Medical Center.
6. **Mercante, DE**. May 19, 2000. Basic statistical concepts. Invited speaker, Dept. of Medicine, Section of Allergy and Clinical Immunology, LSU Health Sciences Center.
7. **Mercante, DE**. May 2000. Basic statistical concepts. Invited speaker, Dept. of Medicine, Section of Physical Medicine and Rehabilitation, LSU Health Sciences Center.
8. **Mercante, DE**. May 26, 2000. Experimental designs in medical research. Invited speaker, Dept. of Medicine, Section of Allergy and Clinical Immunology, LSU Health Sciences Center.
9. **Mercante, DE**. June 21, 2000. Designing clinical trials. Invited speaker, Dept. of Medicine, Section of Pediatrics, LSU Health Sciences Center.
10. **Mercante, DE**. August 16, 2000. "Clinical trials". Invited speaker, Dept. of Medicine, Section of Pediatrics, LSU Health Sciences Center.
11. **Mercante, DE**. May 2001. Basic statistical concepts. Invited speaker, Dept. of Medicine, Section of Allergy and Clinical Immunology, LSU Health Sciences Center.
12. **Mercante, DE**. October 13, 2001. Basic statistical concepts. Invited speaker, Stanley Scott Cancer Center, LSU Health Sciences Center.
13. **Mercante, DE**. November 12, 2001. Statistical review of "Pamidronate to prevent bone loss during androgen-deprivation therapy for prostate cancer". Invited speaker, Stanley Scott Cancer Center, LSU Health Sciences Center.
14. **Mercante, DE**. January 25, 2002. Hypothesis Testing, Confidence Intervals, and Sample Size Issues in Experimental Designs. Invited speaker, Dept. of Medicine, Section of Allergy and Clinical Immunology, LSU Health Sciences Center.
15. **Mercante, DE**. February 15, 2002. Basic statistical concepts. Invited speaker, Dept. of Medicine, Section of Physical Medicine and Rehabilitation, LSU Health Sciences Center.
16. **Mercante, DE**. February 22, 2002. Study Design. Invited speaker, Dept. of Medicine, Section of Physical Medicine and Rehabilitation, LSU Health Sciences Center.
17. **Mercante DE** (1990). Species selection in multispecies toxicity experiments. Dept. of Experimental Statistics Seminar Series, LSU, Baton Rouge, LA.
18. **Mercante DE** (1991). Analysis of multispecies toxicity experiments. College of Pharmacy Seminar Series, Xavier University, New Orleans, LA.
19. **Mercante DE** (1993). Estimation and hypothesis testing for switching regression with estimated change points in longitudinal data. Dept. of Experimental Statistics Seminar Series, LSU, Baton Rouge, LA.
20. **Mercante, D**. Design and Analysis of Split-Mouth Dental Trials: Or, Why I Should Keep My Mouth Shut. Invited Speaker, Tulane-LSU Joint Biostatistics Seminar Series, October 21, 2004, New Orleans, LA.
21. **Mercante, D**. Design and Analysis of Split-Mouth Dental Trials. Invited Speaker, LSU-HSC School of Public Health. April 12, 2006, New Orleans, LA.

22. **Mercante, D.** Design and Analysis of Split-Mouth Dental Trials. Invited Speaker, University of West Florida, Department of Mathematics and Statistics. April 4, 2008, Pensacola, FL.
23. **Mercante, D.** Sampling Variability. Invited Speaker, Department of Physical Therapy. LSUHSC, March 18, 2009.
24. **Mercante, D.** Basic Statistical Methods. Invited Speaker, Department of Cardiopulmonary Science. LSUHSC, June 22, 2009.
25. **Mercante, D.** Statistical Review of Journal Articles,. Invited Speaker, Department of Nephrology. LSUHSC, 2010..
26. **Mercante, D.** Statistical Review of Journal Articles,. Invited Speaker, Department of Nephrology. LSUHSC, 2011..
27. **Mercante, D.** Basic Statistical Consultation. Invited Speaker, Department of Pediatrics. LSUHSC, June 4, 2012.

Book Chapters:

Burgoyne CF, HW Thompson, **DE Mercante**, and RW Amin (1999). Basic issues in the sensitive and specific detection in optic nerve head surface change within longitudinal LDT TopSS image: Introduction to the LSU experimental glaucoma (LEG) study. Lead book chapter in: The Shape of Glaucoma, Quantitative Neural Imaging Techniques. Lemij HG, Schuman JS (eds). Kugler Publications, The Hague, The Netherlands, 2000, pp. 1-37.

DeRouen, TA and **DE Mercante**. Planning a research project. Chapter 4, in: Statistical and Methodological Aspects of Oral Health Research. Lasaffre E, J Feine, B Leroux, D Declerck, eds., (2009 John Wiley and Sons, LTD., Statistics in Practice Series, pp. 390.

Porche, Demetrius, Editor. Epidemiology for the Advanced Practice Nurse. A Population Health Approach, 2022. Springer Publishing, 432 pp. ISBN 978-0-8261-8513-6.

Scientific Exhibits: Journal Publications:

Refereed journals:

1. Tracy RE, **DE Mercante**, A Moncada and G Berensen (1986). Quantitation of hypertensive nephrosclerosis on an objective rational scale of measure in adults and children. Am J Clin Path 85 (3): 312-318.
2. Smith EP and **DE Mercante** (1989). Statistical concerns in the design and analysis of multispecies microcosm and mesocosm experiments. Toxicity Assessment: An International Journal (4) 129-147.
3. Johnson WD and **DE Mercante** (1993). Applications of the IML procedure for multiple response permutation tests. Proceedings of the 1993 SUGI Conference.
4. **Mercante DE** and WD Johnson (1993). The analysis of small sample multivariate data with applications in clinical trials. Journal of Biopharmaceutical Statistics 3(2): 141-152.
5. Mancuso DM, MH Townsend and **DE Mercante** (1993). Long-term follow-up of generalized anxiety disorder. Comprehensive Psychiatry 34(6): 441-446.
6. Johnson WD, **DE Mercante** and WL May (1993). The multivariate nonparametric rank test in completely randomized designs. Computer Methods and Programs in

- Biomedicine 40(3): 217-225.
7. **Mercante DE** and WD Johnson (1993). MULTPERM: a computer package for the analysis of multivariate data using permutation procedures. *Computer Methods and Programs in Biomedicine* 39(3-4): 213-216.
 8. Thompson HT, **DE Mercante**, WD Johnson, J Reidy and RW Beuerman (1993). Statistical analysis of corneal wound closure with a method sensitive to changes in the time course of healing. *Investigative Ophthalmology and Visual Science* Vol 34, No. 4 (Mar 15): 1318.
 9. Johnson WD and **DE Mercante** (1993). Application of a multivariate permutation test in randomized block designs. *Biometric Bulletin* 9:10.
 10. Townsend MH, JG Barbee, LS Sullivan and **DE Mercante** (1994). Personality, anxiety, and worry in GAD long-term outcome. *Psychopharmacology Bulletin* 30(1): 135-135.
 11. Arnett JL, CB Dodrill, **DE Mercante**, GA Schaller, KW Sommerville and VS Shu (1995). Evaluation of the effects of tiagabine Hcl on cognitive-functioning and adjustment in patients with epilepsy. *Epilepsia* V36, S4:282.
 12. King J, BP Deboisblanc, CM Mason, JM Onofrio, G Lipscomb, **DE Mercante**, WR Summer and S Nelson (1995). Effect of granulocyte colony-stimulating factor on acute lung injury in the rat. *Am J Respir Crit Care Med*. Feb 1995: 151 (2 Pt 1).
 13. Biton V, S Boellner, **D Mercante**, H Phillips, G Alto, and K Sommerville. Monotherapy with Tiagabine in an Open-Label Study of Partial Seizures. *Epilepsia*. 37 Supplement 4:40, 1996.
 14. Boellner S, J McCarty, **D Mercante**, and K Sommerville. Pilot Study of Tiagabine in Children with Partial Seizures. *Epilepsia* 37 Supplement 4:92, 1996.
 15. Johnson WD and **DE Mercante** (1996). Analyzing multivariate data in crossover designs using permutation tests. *Journal of Biopharmaceutical Statistics* 6(3): 327-342.
 16. Thompson H, **DE Mercante**, C Burgoyne (1997). Statistical strategies for change detection in optic nerve head digital images (ONHDI). *Invest Ophthalmol Vis Sci Suppl* 38:829.
 17. Sloop GD and **DE Mercante** (1998). Opposite effects of low density and high density lipoprotein on blood viscosity in fasting subjects. *Clinical Hemorheology and Microcirculation*. 19 (3) 197-203. Nov.
 18. Chalew SA, R Gomez, A Butler, J Hempe, T Compton, **D Mercante**, J Rao, and A Vargas. Predictors of glycemic control in children with type 1 diabetes: the importance of race. *Journal of Diabetes & its Complications*. 14(2):71-7, 2000. Mar-Apr.
 19. Welsh DA, BP Guery, BP Deboisblanc, EP Dobard, C Creusy, **D Mercante**, S Nelson, WR Summer, and CM Mason. Keratinocyte growth factor attenuates hydrostatic pulmonary edema in an isolated, perfused rat lung model. *American Journal of Physiology - Heart & Circulatory Physiology*. 280(3):H1311-7, 2001 Mar.
 20. Kaplan JL, MJ Wright, L Lazarus, N Congemi, K duTreil, R Arnold, **D Mercante**, JH Diaz, M Vrahas, and JP Hunt. Use of an unmanned police car to reduce traffic speed. *Journal of Trauma-Injury Infection & Critical Care*. 49(1):43-6, 2000. Jul.
 21. Thompson HW, V Patrangenaru, **DE Mercante**, and CF Burgoyne (2001). Morphometric approach to change detection in confocal scanning laser tomographic (CSLT) images of the optic nerve head (ONH). *Invest Ophthalmol Vis Sci Suppl* 42:S117, 2001.
 22. Burgoyne CF, **DE Mercante**, and HW Thompson (2002). Change detection in regional and volumetric disc parameters using longitudinal confocal scanning laser tomography. *Ophthalmology* 109 (3) 455-466.

23. Spanier AJ, **DE Mercante**, and BM Barkemeyer (2002). Child safety seat knowledge among postpartum mothers in an urban setting. *Southern Medical Journal*. 95(9): 1017-1021.
24. Chandrabasa Usha, P Kumar, D Frey, J Boudreaux, P Boudreaux, J Jerius, D Bhatnagar, and **D Mercante**, Influence of Multiparity on Renal Allograft Outcome. *Journal Allergy Clin Immunol*. February 2002, part 2 Volume 109 Number 1.
25. Kumar P, S Dixit, F Siddiqui, C Fontenot, S Gupta, and **D Mercante**, The Benefits, Adverse Effects, and Cost of Herbal Supplements in a Clinic Population. *Journal Allergy Clin Immunol*. February 2002, part 2 Volume 109 Number 1.
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13. Sandel J, JO Burgess, and **D Mercante**. Thermocycled shear bond strength of three self-etching bonding agents. 32nd Annual Meeting of AADR, March 12-15, 2003, San Antonio, TX. Poster #563.
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