

Evrım Oral, PhD

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MAILING ADDRESS

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EDUCATION

Doctor of Philosophy in Statistics: Hacettepe University 6/2002
Dissertation Title: Stochastic and Nonstochastic Covariates in Binary Regression
Supervisor: Moti Lal Tikü, PhD, McMaster University, Ontario-CA
(*GPA: 4.0/4.0*)

Master of Science in Statistics: Hacettepe University 9/1998
Dissertation Title: Comparing Estimators Using Pitman's Measure of Closeness
Supervisor: Suleyman Gunay, PhD, Hacettepe University, Ankara
(*GPA: 4.0/4.0*)

Bachelor of Science in Statistics: Hacettepe University 6/1995
(*Summa cum laude; ranked 2nd among Statistics department graduates*)

PROFESSIONAL EXPERIENCE AND APPOINTMENTS

Associate Professor (with Tenure) 7/2018 - Present
LSUHSC, School of Public Health, Biostatistics Program
New Orleans, LA

Assistant Professor (Tenure-Track) 8/2012 - 6/2018
LSUHSC, School of Public Health, Biostatistics Program
New Orleans, LA

Assistant Professor (Research-Track) 8/2008 - 7/2012
LSUHSC, School of Public Health, Biostatistics Program
New Orleans, LA

Assistant Professor (Tenure-Track) 8/2006 - 8/2008
METU, Department of Statistics
Ankara, Turkey

Visiting Scholar 9/2004 - 2/2006
University of Washington, Department of Biostatistics
Seattle, WA

Visiting Scholar 9/2004 - 9/2005
University of Washington, Department of Epidemiology
Seattle, WA

Instructor

5/2003 - 7/2006

METU, Department of Statistics
Ankara, Turkey

Research/Teaching Assistant

2/1996 - 4/2003

Hacettepe University, Department of Statistics
Ankara, Turkey

RESEARCH INTERESTS

Statistical inference	Robust statistical inference, Generalized linear models, Statistical inference with censored, skewed or heavy tailed distributions
Survey Sampling	Robust ratio estimators, Randomized response techniques, Unit nonresponse, Attrition, Propensity score weighting, Ranked Set Sampling

TEACHING EXPERIENCE**LSUHSC**

Undergraduate Level: Summer Health Professions Education Program (SHPEP),
Basic Statistics (School of Nursing)

PhD/MS/MPH Level: Statistical Theory I, Generalized Linear Models, Robust Inference,
Advanced Statistical Theory I, Sampling Methods, Advanced Survey
Sampling Methods, Introduction to Mediation and Moderation
Analysis, Principles of Applied Statistics, Applied Linear Models,
Advanced Epidemiologic Methods (Guest Lecturer),
Epidemiologic Design and Analysis (Guest Lecturer)

METU

Undergraduate Level: Biostatistics, Probability I, Probability II, Probability Theory,
Statistics for Engineers, Statistical Quality Control, Nonparametric
Statistics, Statistical Computing I

PhD/MS Level: Advanced Probability Theory I, Advanced Probability Theory II

Hacettepe University

Undergraduate Level: Mathematical Statistics I, Mathematical Statistics II (as TA)

GRADUATE STUDENT SUPERVISION**Supervisor**

MS candidate: Jessica K. Fox, LSUHSC, School of Public Health, Biostatistics Program, 2020-Present

MS (completed): Samantha L. Spiers, LSUHSC, School of Public Health, Biostatistics Program, 2017. Thesis title: Propensity Score Weighting Adjustment for Unit Nonresponse. (*Mathematical Statistician, US Census Bureau*).

PhD (completed): Husam I. Ardah, LSUHSC, School of Public Health, Biostatistics Program, 2016. Dissertation Title: A New Two-Stage Sampling Design for Sensitive Questions through Randomized Response Technique and Direct Questioning. (*Research Scientist, King Abdullah International Medical Research Center*).

PhD (completed): Denise M. Danos, LSUHSC, School of Public Health, Biostatistics Program, 2016. Dissertation Title: Binary Regression with Stochastic Covariates. (*Assistant Professor, Behavioral and Community Health Sciences Program, LSUHSC*).

PhD (completed): Claudia Leonardi, LSUHSC, School of Public Health, Biostatistics Program, 2014. Dissertation Title: A Two-Stage Randomized Response Technique for Surveying Sensitive Topics. (*Assistant Professor, Behavioral and Community Health Sciences Program, LSUHSC*).

Committee Member

PhD candidate: Madhav KC, LSUHSC, School of Public Health, Epidemiology Program, 2019-Present.

PhD candidate: Lisa B. Moses, LSUHSC, School of Public Health, Behavioral & Community Health Sciences Program, 2019-Present.

PhD candidate: Pontiff Mattie, LSUHSC, School of Allied Health Professions, Department of Physical Therapy, 2019-Present.

PhD (completed): Irfan Aslam, The National College of Business Administration and Economics, Department of Applied Statistics, 2020 (External Reviewer).

PhD (completed): Paige L. Fisher, LSUHSC, School of Public Health, Biostatistics Program, 2020.

PhD (dropped out): John M. Conner, LSUHSC, School of Public Health, Epidemiology Program, 2019 - 2020.

PhD (completed): Azaz Ahmed, The National College of Business Administration and Economics, Department of Applied Statistics, 2019 (External Reviewer).

PhD (completed): Christine G. Watters, LSUHSC, School of Public Health, Biostatistics Program, 2019.

PhD (completed): Naureen Riaz, The National College of Business Administration and Economics, Department of Applied Statistics, 2019 (External Reviewer).

PhD (completed): Tat Yau, LSUHSC, School of Public Health, Biostatistics Program, 2019.

PhD (completed): Muhammad Nouman Nazar Qurashi, The National College of Business Administration and Economics, Department of Applied Statistics, 2018 (External Reviewer).

PhD (completed): Uzma Yasmeen, The National College of Business Administration and Economics, Department of Applied Statistics, 2017 (External Reviewer).

PhD (completed): Samaah M. Sullivan, LSUHSC, School of Public Health, Epidemiology Program, 2015.

PhD (completed): Jennifer Berken, LSUHSC, School of Public Health, Biostatistics Program, 2014.

PhD (completed): Robbie A. Beyl, LSUHSC, School of Public Health, Biostatistics Program, 2013.

MS (completed): Yaling Li, LSUHSC, School of Public Health, Biostatistics Program, 2019.

MS (completed): McKensie P. Osborn, LSUHSC, School of Public Health, Biostatistics Program, 2018.

MS (completed): Jennifer Hayden, LSUHSC, School of Public Health, Biostatistics Program, 2011.

PUBLICATIONS

Book Chapters

1. **Oral E.**, 2019, Surveying Sensitive Topics with Indirect Questioning, *in: Statistical Methodologies*. IntechOpen, doi: 10.5772/intechopen.84524.
2. **Oral E.**, 2007, Recent Developments in Robust Statistical Methods, *in: Recent Advances in Statistics*. Ayhan H.Ö. and Batmaz İ. (Eds.) Turkish Statistical Institute Press, Ankara. ISBN: 978-975-01606-0-8. Chapter 12, pp. 151-166.

Peer Reviewed Journal Articles (* indicates Advisor/Corresponding Author)

3. Shahzad U., Ahmad I., **Oral E.**, Hanif M. and Almanjahie I.M., 2020, Estimation of the Population Mean by Successive Use of an Auxiliary Variable in Median Ranked Set Sampling. To Appear in: *Math. Pop. Studies*.
4. Kumar S., Kumar S., and **Oral E.**, 2020, Robust Ratio- and Product-type Estimators under Non-normality via Linear Transformation Using Certain Known Population Parameters. To Appear in: *Annals of Data Science*, doi:10.1007/s40745-020-00258-0.
5. Rung A., **Oral E.**, Berghammer L. and Peters E.S., 2020, Feasibility and Acceptability of a Mobile Mindfulness Meditation Intervention among Women: Intervention Study. *JMIR Mhealth Uhealth*, 8(6):e15943, doi: 10.2196/15943.
6. Bateman M.E., Oakland H., **Oral E.**, Nuss H., Fisher P., Udemgba C., Walker C., Daigrepoint N. and Parada N.A., 2020, Evaluation of a Multidisciplinary Disease Management Program to Achieve Asthma Control in Seven Safety Net Hospitals in Louisiana. To Appear in: *Population Health Management*.
7. Pierce A.E., Moreno-Walton L., Boatright D., Moll J.L., Hicks M.N., Druck J., Lopez B.L., **Oral E.** and Heron S., 2019, Advancing Diversity and Inclusion: An Organized Approach Through a Medical Specialty Academy. *AEM Education and Training*. 4(Suppl 1):S40-S46, doi:10.1002/aet2.10427.
8. **Oral E.** and Oral E., 2019, Commentary on S. Kumar and P. Chhapparwal, 2016. A Robust Unbiased Dual to Product Estimator for Population Mean through Modified Maximum Likelihood in Simple Random Sampling, *Cogent Mathematics*, 3:1168070. *Cogent Mathematics and Statistics* 6(1) 1596553, doi:10.1080/25742558.2019.1596553.
9. **Oral E.** and Danos D., 2018, Modeling Binary Regression with Stochastic Covariates. *Communication in Statistics-Theory and Methods* 48(11) 2619-2640.
10. Spiers S., **Oral E.***, Fontham, E., Peters E.S., Mohler J.L., Bensen J.T., and Brennan C., 2018, Modelling Attrition and Nonparticipation in a Longitudinal Study of Prostate Cancer. *BMC Medical Research Methodology*, 18:60, doi: 10.1186/s 12874-018-0518-6
11. Rung A.L., **Oral E.**, Fontham E., Harrington D.J., Trapido E.J. and Peters E.S., 2018, The Long-term Effects of the Deepwater Horizon Oil Spill on Women's Depression and Mental Distress. *Disaster Medicine and Public Health Preparedness*, doi: 10.1017/dmp.2018.14.
12. Ardah I.H. and ., **Oral E.*** 2018, Model Selection in Randomized Response Techniques for Binary Responses. *Communication in Statistics-Theory and Methods*, 47(14) 3305-3323.
13. Sullivan S.M., Peters E.S., Trapido E.J., **Oral E.**, Scribner, R. and Rung, A.L., 2017, Neighborhood Environment Measurements and Anthropometric Indicators of Obesity: Results from

the Women and their Children's Health (WaTCH) Study. *Environment and Behavior*, doi: 10.1177/0013916517726827.

14. Peters E.S., Rung, A.L., Bronson, M.H., Brashear, M.M., Peres, L.C., Gaston S., Sullivan S.M., Peak, K. Abramson, D.M., Fontham, T.H., Harrington, D., **Oral E.** and Trapido E.J., 2017, The Women and Their Children's Health (WaTCH) Study: Methods and Design of a Population-based Cohort Study to Examine the Health Effects from the BP Oil Spill. *BMJ Open*, doi:10.1136/bmjopen-2016-014887.
15. **Oral E.**, 2017, Modified Maximum Likelihood Estimation in Poisson Regression. *Biometrics & Biostatistics International Journal*, 6(1): 00154, doi:10.15406/bbij.2017.06.00154.
16. **Oral E.**, Simonsen N., Brennan C., Berken, J., Mohler J.L., Bensen J.T., Mishel M. and Fontham, E., 2016, Unit Nonresponse in a Population-Based Study of Prostate Cancer. *PLoS ONE*, 11(2): e0168364, doi:10.1371/journal.pone.0168364.
17. Sullivan S.M., Peters E.S., Trapido E.J., **Oral E.**, Scribner, R. and Rung, A.L., 2016, Assessing Mediation of Behavioral and Stress Pathways in the Association between Neighborhood Environments and Obesity Outcomes. *Preventive Medicine Reports*, (4) 248-255.
18. Rung A.L., Gaston S., **Oral E.**, Robinson W.T., Fontham, E., Harrington, D.J., Trapido, E.J. and Peters E.S., 2016, Depression, Mental Distress and Domestic Conflict among Louisiana Women Exposed to the Deepwater Horizon Oil Spill in the Women and Their Children's Health Study. *Environmental Health Perspectives*, doi:10.1289/EHP167.
19. Peres, L. C., Trapido, E. J., Rung A.L., Harrington D. J, **Oral E.**, Fang, Z., Fontham, E. T. and Peters E. S., 2016, The Impact of the Deepwater Horizon Oil Spill on Physical Health Among Adult Women in Southern Louisiana. *Environmental Health Perspectives*, doi:10.1289/ehp.1510348.
20. Krishnamoorthy K. and **Oral E.**, 2015, Standardized Likelihood Ratio Test for Comparing Several Log-normal Means and Confidence Interval for the Common Mean. *Statistical Methods in Medical Research*, doi: 10.1177/0962280215615160.
21. Rung A. L., **Oral E.** Fontham E., Harrington D. J., Trapido E.J. and Peters E. S., 2015, Mental Health Impact of the Deepwater Horizon Oil Spill Among Wives of Clean-up Workers. *Epidemiology*, 26(4), e44-e46.
22. Oral E. and **Oral E.**, 2012, Analyzing High Frequency Financial Data and Modeling Volatility Using GARCH Models with Normal and Stable Paretian Distributions: An Example from an Emerging Market. *International Research Journal of Finance and Economics*, 93, 56-66.
23. Brennan C., **Oral E.**, Fontham E., Mohler J. L., Bensen J. T., Mishel M., and Simonsen N., 2012, The Differences in Quality of Life in Prostate Cancer Project: Methods and Design of a Multidisciplinary Population-Based Follow-up Study. *Current Research in Medicine*, 3(2), 104-114. <https://doi.org/10.3844/amjsp.2012.104.114>
24. **Oral E.**, 2012, Robust Estimation in Non-normal Samples with Known Detection Limits, *International Journal of Mathematics and Statistics*, 12(2), 16-37.
25. **Oral E.** and Kadilar C., 2011, Robust Ratio-type Estimators in Simple Random Sampling. *Journal of the Korean Statistical Society*, 40(4), 457-467.
26. **Oral E.** and Oral E., 2011, A Robust Alternative to the Ratio Estimator under Non-normality. *Statistics and Probability Letters*, 81(8), 930-936.
27. **Oral E.** and Kadilar C., 2011, Improved Ratio Estimators via Modified Maximum Likelihood. *Pakistan Journal of Statistics*, 27(3), 269-282.

28. Hanna E. B., Glancy D. L. and **Oral E.**, 2010, Sensitivity and Specificity of Frequently Used Electrocardiographic Criteria for Left Ventricular Hypertrophy in Patients with Anterior Wall Myocardial Infarction. *Proc (Bayl Univ Med Cent)*, 23(1), 15-18.
29. **Oral E.**, 2006, Binary Regression with Stochastic Covariates. *Communications in Statistics-Theory and Methods*, 35(8), 1429-1447.
30. Troen A. M., Mitchell B., Sorensen B., Wener, M., Johnston A., Wood B., Selhub J., McTiernan A., Yasui Y., **Oral E.**, Potter J. D. and Ulrich C. M., 2006, Unmetabolized Folic Acid in Plasma Is Associated with Reduced Natural Killer Cell Cytotoxicity among Postmenopausal Women. *Journal of Nutrition*, 136(1), 189-194.
31. **Oral E.** and Gunay S., 2004, Stochastic Covariates in Binary Regression. *Hacettepe Journal of Mathematics and Statistics*, 33, 97-109.
32. Erk G., **Oral E.** and Gogus N., 2001, The Comparison of Anesthesia Induction, Maintenance, Recovery and Cognitive Functions in Geriatric Patients during Midazolam-fentanyl and Sevoflurane Anesthesia. *Journal of the Faculty of Medicine, University of Selcuk*, 17, 7-15.

Papers in Proceedings or Non-refereed Journals

33. KC M., **Oral E.**, and Straif-Bourgeois S., Rung A.L. and Peters E.S., 2020, The Effect of Area Deprivation on COVID-19 Risk in Louisiana. *medRxiv 2020.08.24.20180893*, doi: <https://doi.org/10.1101/2020.08.24.20180893>.
34. **Oral E.**, and Ardah H. I., 2015, A Two-Stage Sampling Model for the Estimation of Population Proportion and Cheating with Randomized Response and Direct Questioning. *In: JSM Proceedings, Survey Research Methods Section*. Alexandria, VA: American Statistical Association, 2598-2605.
35. Danos M.D., **Oral E.***, Simonsen N., and Fontham E., 2012, Lung Cancer Risk Prediction with Stochastic Covariates. *In JSM Proceedings, Biometrics Section*. Alexandria, VA: American Statistical Association, 34-41.
36. **Oral E.**, 2011, Parameter Estimation in Generalized Linear Models through Modified Maximum Likelihood. *International Statistical Institute: Proc. 58th World Statistical Congress*, 4632-4637.
37. Oral E. and **Oral E.**, 2011, Volatility of High-frequency Returns on Foreign Exchange and Stable Innovations. *International Statistical Institute: Proc. 58th World Statistical Congress*, 5527-5532.
38. **Oral E.**, 2011, Non-normal Type-I Censored Samples in Logistic Regression. *In JSM Proceedings, Biometrics Section*. Alexandria, VA: American Statistical Association. 1944-1952.
39. **Oral E.**, 2010, Improving Efficiency of Ratio-Type Estimators through Order Statistics. *In JSM Proceedings, Section on Survey Research Methods*. Alexandria, VA: American Statistical Association. 4231-4239.
40. **Oral E.**, 2009, Estimation in Logistic Regression Models with Bivariate Stochastic Covariates. *Bulletin of the International Statistical Institute*, 1-6.
41. **Oral E.**, 2006, Modified Maximum Likelihood Estimation of the Proportional Odds Model. *2006 Proceedings of the American Statistical Association, Biometrics Section [CD-ROM]*, Alexandria, VA: American Statistical Association, 307-314.
42. **Oral E.**, 2005, Parameter Estimation in Poisson Regression via Modified Maximum Likelihood Method. *2005 Proceedings of the American Statistical Association, Biometrics Section [CD-ROM]*, Alexandria, VA: American Statistical Association, 347-355.

43. **Oral E.**, 2003, Nonlinear Relationship in Binary Regression. *Bulletin of the International Statistical Institute*, 60 (2) 196-197.
44. **Oral E.** and Gunay S., 1998, Comparing Estimators via Pitman's Measure of Closeness. *Proceedings of Research Symposium'98 of State Institute of Statistics, Prime Ministry Republic of Turkey*, 167-176.
45. **Oral E.** and Gunay S., 1998, Pitman's Measure of Closeness. *Proceedings of the Statistics Conference, Gazi University*, 69-83.

Published Abstracts (Peer Reviewed)

46. Rhodes S., Sausen N.J., Okeke-Eweni K., **Oral E.**, Moreno-Walton L., 2019, Gun-Related Injuries in Children in the Greater New Orleans Area. *Annals of Emergency Medicine*, 74(4): S93-S94.
47. Yang D., Okeke-Eweni K., Meyers F. Lowe M., Das A., Olinde A., Bond S., Rhodes S., **Oral E.**, Moreno-Walton L., 2019, Social Factors That Influence Frequent Utilization of the Emergency Department for Adults Presenting to an Urban Emergency Department With Suicidal Ideation. *Annals of Emergency Medicine*, 74(4): S81-S82.
48. Roth M., Okeke-Eweni K., Fontenot B. Tusa R., Rhodes S., **Oral E.**, Moreno-Walton L., Hunt I., and Castillo C., 2019, Adequacy of Health Care Advance Directives in Patients Admitted to the Intensive Care Unit. *Annals of Emergency Medicine*, 74(4): S59.
49. Avegno J., Zhang Q.C., **Oral E.**, Boisvert M., and Haber D., 2018, Risk Assessment Scoring of Emergency Department Frequent Utilizing Patients for Identification and Early Intervention. *Annals of Emergency Medicine*, 72(4): S107.
50. Spiers S. and **Oral E.***, 2017, Limits of Propensity Score Weighting Adjustment for Unit Nonresponse. *Annals of Epidemiology*, 27(8): 526.
51. Lilje C., Cardinale J.P., Cronan J., Kashyap L., , Clesi P., **Oral E.**, Gomez R., Hempe J., Chalew, S., 2015, Femoral and Aortic Intima-media Thickness but not Carotid or Brachial Intima-media Thickness are Abnormal in Children with Type 1 Diabetes. *Cardiology*, 131: 179-179.
52. Lilje C., Cronan J.C., Leone K., **Oral E.**, Patel, S., 2015, Morphologic Severity Does not Predict Myocardial Contractile Function in Pediatric Noncompaction Cardiomyopathy. *Cardiology*, 131: 42-42.

PRESENTATIONS

Presentations at Professional Meetings

1. **Oral E.**, 2019, Stochastic Covariates in Poisson Regression. *The 2019 Joint Statistical Meetings*, July, Denver, CO.
2. Zhang Q.C., Avegno J., **Oral E.**, Boisvert M., Haber D. and Niculescu A., 2018, Risk Assessment Scoring of Emergency Department Frequent Utilizing Patients for Identification and Early Intervention. *American College Of Emergency Physicians Meeting*, October, San Diego, CA.
3. **Oral E.** and Spiers L.S., 2018, Utilizing the Best Link Function in Propensity Score Weighting Adjustment. *International Total Survey Error Workshop*, June, Durham, NC.
4. Rung A.L., **Oral E.**, Fontham E., Harrington D.J., Trapido E.J. and Peters E.S., 2018, The Long-Term Effects of the Deepwater Horizon Oil Spill on Women's Depression and Mental Distress. *The Society of Behavioral Medicine*, April, New Orleans, LA.
5. **Oral E.** and Spiers L.S., 2017, Drawbacks of Utilizing the Logit Link in Propensity Score Weighting Adjustment. *International Symposium on Biomathematics and Ecology Education and Research*, October, Normal, IL.

6. **Oral E.** and Ardah H.I., 2016, A New Two-Stage Sampling Design for Sensitive Questions through Randomized Response Technique and Direct Questioning. *The 2016 International Indian Statistical Association Conference on Statistics*, August, Corvallis, OR (**INVITED**).
7. Danos D. and **Oral E.***, 2015, Inference in Binary Regression with Stochastic Covariates. *2015 Lloyd Roeling UL Lafayette Mathematics Conference: Statistics*, November, Lafayette, LA.
8. Ardah H.I. and **Oral E.***, 2015, Improving the Efficiency of Randomized Response Techniques by a Two-Stage Model for Binary Responses. *2015 Lloyd Roeling UL Lafayette Mathematics Conference: Statistics*, November, Lafayette, LA.
9. **Oral E.**, Ardah H.I. and Trapido, E.J., 2015, A Two-Stage Sampling Model for the Estimation of Population Proportion and Cheating with Randomized Response and Direct Questioning. *The 2015 Joint Statistical Meetings*, August, Seattle, WA.
10. Harrington, D.J., Peters E.S., Fontham, E., Rung, A.L., **Oral E.** and Trapido, E.J., 2015, Impact of the Deepwater Horizon Oil Spill on Seafood Consumption in Louisiana: The WaTCH Study. *The NIEHS Deepwater Horizon Research Consortium Annual Meeting*, January, New Orleans, LA.
11. Larson B., Heard A., Miller J. and **Oral E.**, 2014, Improving the Accuracy of Visual Estimation of Blood Loss through Simulation Training. *The 26th Annual LSU School of Medicine, Dept. of Obstetrics and Gynecology Resident Research Day*, May, New Orleans, LA (**Best Research Award**).
12. Clark L., **Oral E.** and Miller J., 2014, Umbilical Artery Doppler: The Small for Gestational Age Fetus and Single Umbilical Arteries, A Retrospective Cohort Study. *The 26th Annual LSU School of Medicine Dept. of Obstetrics and Gynecology Resident Research Day*, May, New Orleans, LA (**Presentation Award**).
13. Rybka A., Williams V. and **Oral E.**, 2014, Resident Run Journal Club: A New Approach. *The 26th Annual LSU School of Medicine Dept. of Obstetrics and Gynecology Resident Research Day*, May, New Orleans, LA.
14. Simonsen, N., **Oral E.** Brennan C. S., Berken J., Hayden J. and Fontham, E. T. H., 2012, Challenges in Surveying Elderly African-American Men. *International Conference on Methods for Surveying and Enumerating Hard to Reach Populations*, November, New Orleans, LA.
15. **Oral E.**, and Kadilar C., 2012, Robust Estimation in Survey Sampling via Modified Maximum Likelihood Methodology. *The International Conference on Advances in Interdisciplinary Statistics and Combinatorics*, October, Greensboro, NC. (**INVITED**)
16. Leonardi, C., **Oral E.*** and Robinson W. T., 2012, Mean and Sensitivity Estimation Using an Alternative Randomized Response Method. *The International Conference on Advances in Interdisciplinary Statistics and Combinatorics*, October, Greensboro, NC.
17. **Oral E.**, 2012, Stochastic and Nonstochastic Explanatory Variables in Generalized Linear Models. *The 2012 Joint Statistical Meetings*, August, San Diego, CA.
18. Danos M.D., Simonsen N., Fontham E. and **Oral E.***, 2012, Lung Cancer Risk Prediction with Stochastic Covariates. *The 2012 Joint Statistical Meetings*, August, San Diego, CA.
19. Korez M. K., **Oral E.**, Akdogan Y. and Kus C., 2012, Simulation Study for Modified Maximum Likelihood Estimators in Poisson Regression. *The 25th European Conference on Operational Research*, July, Vilnius-Lithuania.
20. Akdogan Y., **Oral E.**, Korez M. K. and Kus C., 2012, Simulation Study for the Comparison of Maximum Likelihood and Modified Maximum Likelihood Estimators in Logistic Regression. *The 25th European Conference on Operational Research*, July, Vilnius-Lithuania.

21. **Oral E.**, 2012, Estimation in Binary and Linear Regression Models with a Stochastic Predictor Variable. *Louisiana American Statistical Association Chapter Spring 2012 Meeting*, April, New Orleans, LA.
22. **Oral E.**, Thompson H. and Farris H., 2011, Analytic Problems in Two Photon Microscopy Data. *International Symposium on Biomathematics and Ecology: Education and Research*, December, Portland, OR. **(INVITED)**
23. **Oral E.**, 2011, Robust Estimation in Simple Random Sampling. *2011 Lloyd Roeling UL Lafayette Mathematics Conference*, November, Lafayette, LA.
24. **Oral E.**, 2011, Parameter Estimation in Generalized Linear Models through Modified Maximum Likelihood. *The 58th World Statistics Congress of the International Statistical Institute*, August, Dublin-Ireland.
25. Oral E. and **Oral E.**, 2011, Volatility of High-frequency Returns on Foreign Exchange and Stable Innovations. *The 58th World Statistics Congress of the International Statistical Institute*, August, Dublin-Ireland.
26. **Oral E.**, 2011, Non-normal Type-I Censored Samples in Logistic regression. *The 2011 Joint Statistical Meetings*, August, Miami, FL.
27. Brennan C. S., **Oral E.**, Simonsen N. R. and Fontham, E. T. H., 2011, The Differences in Quality of Life in Prostate Cancer. *The 6th International Conference on Interdisciplinary Social Sciences*, July, New Orleans, LA.
28. **Oral E.**, 2010, Modified Maximum Likelihood Estimators for Left Censored Bivariate Data under Non-normality. *The XXVth International Biometric Conference*, December, Florianopolis, Santa Catarina-Brazil.
29. **Oral E.**, 2010, Improving Efficiency of Survey Sampling Procedures through Order Statistics. *The 2010 Joint Statistical Meetings*, August, Vancouver, B.C.-Canada.
30. **Oral E.**, Beyl R. A. and Robinson W. T., 2010, Estimation in Type I Censored Viral Load Assays Under Non-normality. *IBS-ENAR Spring Meetings*, March, New Orleans, LA.
31. **Oral E.**, 2009, Estimation in Logistic Regression Models with Bivariate Stochastic Covariates. *The 57th Session of the International Statistical Institute*, August, Durban-South Africa.
32. **Oral E.** and Kadilar C., 2009, Modified Ratio Estimators in Simple Random Sampling. *The 2009 Joint Statistical Meetings*, August, Washington D.C.
33. **Oral E.**, 2007, Multinomial Logistic Regression Models with a Stochastic Design Variable. *The 2007 Joint Statistical Meetings*, July, Salt Lake City, UT.
34. **Oral E.**, 2006, Modified Maximum Likelihood Estimation of the Proportional Odds Model. *The 2006 Joint Statistical Meetings*, August, Seattle, WA.
35. **Oral E.**, 2006, Robust Estimation in Multinomial Logit Models. *The XXIIIrd International Biometric Conference*, July, Montreal, Quebec-Canada.
36. **Oral E.**, 2005, Parameter Estimation in Poisson Regression via Modified Maximum Likelihood Method. *The 2005 Joint Statistical Meetings*, August, Minneapolis, MN.
37. **Oral E.** and Miglioretti D. L., 2005, Multivariable Binary Regression with Stochastic Covariates. *IBS-ENAR Spring Meetings*, March, Austin, TX.
38. **Oral E.**, 2003, Nonlinear Relationship in Binary Regression. *The 54th Session of International Statistical Institute*, August, Berlin-Germany.

39. **Oral E.**, 2003, Modified Maximum Likelihood Estimators in Binary Regression. *The 2nd International Biometric Society Conference of the Eastern Mediterranean Region*, January, Antalya-Turkey.
40. **Oral E.** and Gunay S., 1998, Comparing Estimators via Pitman's Measure of Closeness. *Research Symposium' 98 of State Institute of Statistics, Prime Ministry Republic of Turkey*, November, Ankara- Turkey.
41. **Oral E.** and Gunay S., 1998, Pitman's Measure of Closeness. *Gazi University Statistics Conference*, October, Ankara-Turkey.

Posters at Professional Meetings

42. Wiley T., Harris D., Fox J., **Oral E.**, and Moreno-Walton, L., 2020, Racial Disparities in Associations of Stress with Increased Risk of Coronary Heart Disease: A Survey Study within an Urban Emergency Department. *2020 LSUHSC Virtual Summer Research Internship Poster Session*, July, New Orleans, LA. **(1st Place Winner)**
43. Mohiuddin A., Mierl J., Rhodes S., Fox J., **Oral E.**, and Moreno-Walton, L., 2020, Hepatitis C Among Incarcerated Population in an Urban Emergency Department. *2020 LSUHSC Virtual Summer Research Internship Poster Session*, July, New Orleans, LA. **(3rd Place Winner)**
44. Jones A., Harris D., Rhodes S., Fox J., **Oral E.**, and Moreno-Walton, L., 2020, The Efforts to Diversify Faculty Within Their Departments: A National Survey of Emergency Medicine Department Heads. *2020 LSUHSC Virtual Summer Research Internship Poster Session*, July, New Orleans, LA.
45. Hochwald L., Roth M., Fontenot B., Rhodes S., Fox J., **Oral E.**, and Moreno-Walton, L., 2020, Adequacy of Health Care Advance Directives in Patients Admitted to the Intensive Care Unit. *2020 LSUHSC Virtual Summer Research Internship Poster Session*, July, New Orleans, LA.
46. Conner J.M., Rung A., **Oral E.** and Peters, E., 2019, Urban/Rural differences in Non-Traumatic Dental Condition-Related Emergency Department Visits in Arkansas. *LSUHSC Graduate Research Day*, November, New Orleans-LA.
47. Rhodes S., Sausen N., Okeke-Eweni K., **Oral E.** and Moreno-Walton, L., 2019, Gun-related Injuries in Children in the Greater New Orleans Area. *American College Of Emergency Physicians Meeting*, October, Denver-CO.
48. Yang D., Okeke-Eweni K., Fontenot B., Meyers F., Adams E., Lowe M., Das A., Olinde A., Bond S., Hui A., Chan R., Rhodes S., **Oral E.** and Moreno-Walton, L., 2019, Social Factors that Influence Frequent Utilization of the Emergency Department for Adults Presenting to an Urban Emergency Department with Suicidal Ideation. *American College Of Emergency Physicians Meeting*, October, Denver-CO.
49. Maya R., Okeke-Eweni K., Fontenot B., Tusa R., Fu Q., **Oral E.** and Moreno-Walton, L., 2019, Adequacy of Health Care Advance Directives in Patients Admitted to the Intensive Care Unit. *American College Of Emergency Physicians Meeting*, October, Denver-CO.
50. Wapples B., Landefeld K., Clark T., Haber D., **Oral E.** and Butts, C., 2019, Factors Influencing Inaccurate FAST Exams At a Level 1 Trauma Center. *The Xth Mediterranean Emergency Medicine Congress MEMC19*, September, Dubrovnik-Croatia **(Selected among the top 25 outstanding abstracts at MEMC19)**.
51. Rouege Z.M., Rhodes S., **Oral E.**, Sausen N., Okeke-Eweni K. and Moreno-Walton, L., 2019, Disparities in Motor Vehicle Collision (MVC) among the Pediatric Patients. *LSUHSC Summer Research Internship Program Poster Day*, July, New Orleans, LA.

52. Lain K.A., Okeke-Eweni K. **Oral E.** and Moreno-Walton, L., 2019, Human Papilloma Virus, Herpes Simplex Virus, Syphilis, Gonorrhea and Chlamydia infections among HIV-positive Patients at the Emergency Department (ED) of University Medical Center New Orleans. *LSUHSC Summer Research Internship Program Poster Day*, July, New Orleans, LA.
53. Ogbuefi C.C., Okeke-Eweni K. **Oral E.** and Moreno-Walton, L., 2019, Low Clinic Attendance Rates for Hepatitis C Appointments at UMCNO. *LSUHSC Summer Research Internship Program Poster Day*, July, New Orleans, LA.
54. Rung A., **Oral E.**, Berghammer L.A., Peters E., 2019, Feasibility and Acceptability of a Mobile Mindfulness Meditation Intervention among Louisiana Women. *Society for Epidemiologic Research 2019 Annual Meeting*, June, Minneapolis, MN.
55. Bateman M.E., Oakland H. **Oral E.**, Fisher P., Walker C., Nuss H. and Parada N.A., 2019, Factors Affecting Asthma Control in an Underserved Patient Population. *American Thoracic Society International Meeting*, May, Dallas, TX.
56. Bateman M.E., Oakland H. **Oral E.**, Fisher P., Walker C., Nuss H. and Parada N.A., 2019, Effectiveness of a Multidisciplinary Disease Management Program to Improve Asthma Control in an Underserved Patient Population in Louisiana. *Tulane University 30th Annual Health Sciences Research Days*, March, New Orleans, LA.
57. Landefeld K., Clark T., Wapples B., Haber D., **Oral E.** and Butts, C., 2019, Factors Influencing Inaccurate FAST Exams At a Level 1 Trauma Center. *25th Annual Scientific Assembly of the American Academy of Emergency Medicine*, March, Las Vegas, NV.
58. Zabaleta J., **Oral E.**, Kepper M., Griffiths L., Skizim M., Cornwell K., Scribner R., Miele L. and Sothern M., 2018, Inflammatory and Epigenetic Changes Following Diet versus Exercise in African American Female Youth. *The Obesity Society, Obesity Week 2018*, November, Nashville, TN.
59. Nuss H., **Oral E.**, Griffiths L., Duhon A., Zabaleta J., Scribner R., Miele L. and Sothern M., 2018, The Association Between Breastfeeding and Insulin Resistance in Prepubertal Children. *The Obesity Society, Obesity Week 2018*, November, Nashville, TN.
60. Trusty S., Zabaleta J., Ravussin E., Larsen-Meyer E., **Oral E.**, Kepper M., Griffiths L., Skizim M., Scribner R., Nuss H., Cornwell K., Shrestha P., Duhon A., Affuso O., Tseng T., Miele L. and Sothern M., 2018, Intrahepatic Fat Prior to Puberty Promotes Insulin Resistance during Adolescence in a Multi-ethnic Cohort of Healthy Youth with and without Obesity. *The Obesity Society, Obesity Week 2018*, November, Nashville, TN.
61. Duhon A., Sothern M., Zabaleta J., **Oral E.**, Kepper M., Griffiths L., Skizim M., Scribner R., Shrestha P., Trusty S., Cornwell K., Affuso O., Miele L., and Nuss H., 2018, Maternal Weight Status Prior to Pubertal Development in Offspring is Linked to Obesity and Insulin Resistance Later during Adolescence. *The Obesity Society, Obesity Week 2018*, November, Nashville, TN.
62. Spiers S. and **Oral E.***, 2017, Limits of Propensity Score Weighting Adjustment for Unit Non-response. *The 2017 Annual Meeting of American College of Epidemiology: The Methods of Translating and Disseminating Epidemiology into Public Health*, September, New Orleans, LA.
63. Spiers S. and **Oral E.***, 2017, Effects of Link Misspecification in Propensity-score Weighting Adjustment. *The 2017 Joint Statistical Meetings*, August, Baltimore, MD.
64. Brennan C.S., **Oral E.**, Spiers, S. and Fontham E.T.H., 2017, Quality of Life Disparities in Prostate Cancer Survivors. *The 10th Anniversary Health Disparities Conference "Advances in Evidence-based Practices to Eliminate Disparities and Achieve Health Equity in Building Healthier Communities: Lessons Learned"*, March, New Orleans, LA.

65. **Oral E.** and Danos D., 2016, Link Misspecification in Binary Regression. *The 2016 International Indian Statistical Association Conference on Statistics*, August, Corvallis, OR.
66. Wischmeyer A., Hoang, T.T., Gutierrez A.G., Hernandez B.M., Roger, N.L., **Oral E.**, 2016, Relationship between Y-Balance Test scores and Injury Risk among CrossFit Participants. *American Physical Therapy Association Combined Section Meetings*, February, Anaheim, CA.
67. Danos D. and **Oral E.***, 2015, Noncanonical Links in Binary Regression. *LSUHSC-SOM Graduate Research Day 2015*, November, New Orleans, LA.
68. Danos D. and **Oral E.***, 2015, The effect of Link Misspecification in Binary Regression. *2015 LSUHSC School of Public Health 2015 Honors-Research Day*, May, New Orleans, LA.
69. Wischmeyer A., Gutierrez A.G., Hernandez B.M., Roger, N.L., **Oral E.**, Hoang, T.T., 2015, Does the Y Balance Test Predict Injury in CrossFit Participants? *Research Symposium, School of Allied Health Professionals, LSUHSC*, April, New Orleans, LA.
70. Sullivan S., Peters E., Trapido E., **Oral E.** and Rung A., 2015, A Multilevel Investigation of Neighborhood Disadvantage and Depression in the Women and Their Children's Health (WaTCH) Study in Louisiana. *2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference*, February, Houston, TX.
71. Gaston S., Peters E., **Oral E.**, Trapido E. and Rung A., 2015, Social Support, Race, and Psychological Distress Among Women in the in the Women and Their Children's Health Study (WaTCH) Exposed to the Deepwater Horizon Oil Spill (DWOS). *2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference*, February, Houston, TX.
72. Trapido E., Sullivan S., Rung A., **Oral E.**, Fontham, E.T.H., Harrington, D., Brashear M. and Peters E., 2015, Physical Health in the Women and Their Children's Health (WaTCH) Study in Louisiana. *The NIEHS Deepwater Horizon Research Consortium Annual Meeting*, January, New Orleans, LA.
73. Sullivan S., Peters E., Trapido E., **Oral E.** and Rung A., 2014, The Relationship Between Neighborhood Social Environment Stressors and Mental Health Outcomes in the Women and Their Children's Health (WaTCH) Study in Louisiana. *American Public Health Association Annual Meeting*, November, New Orleans, LA.
74. Clark L., **Oral E.** and Miller J., 2014, Is Umbilical Artery Doppler Evaluation Related to the Small for Gestational Age Singleton Fetus with an Isolated Single Umbilical Artery?, *The Central Association of Obstetricians and Gynecologist- 81st Annual Meeting*, October, Albuquerque, NM.
75. Rung A., **Oral E.**, Gaston S., Nugent N., Trapido E. and Peters E., 2014, Validating a Shortened Form of the CESD Among Women Affected by the Deepwater Horizon Oil Spill (DWOS) in Louisiana. *The 47th Annual Society for Epidemiologic Research Meeting*, June, Seattle, WA.
76. Sullivan S., Peters E., Trapido E., **Oral E.** and Rung A., 2014, The Relationship Between Neighborhood Social Environment Stressors and Body Mass Index (BMI), Waist Circumference (WC), and Waist-to-Hip Ratio (WHR) in the Women and Their Children's Health (WaTCH) Study in Louisiana. *The 47th Annual Society for Epidemiologic Research Meeting*, June, Seattle, WA.
77. Gaston S., Peters E., **Oral E.**, Trapido E. and Rung A., 2014, Predictors of Response to in-home Biological Specimen Collection in the Women and Their Children's Health Study (WaTCH). *The 47th Annual Society for Epidemiologic Research Meeting*, June, Seattle, WA.
78. Peacock L., Thomas A. **Oral E.** and Louviere C., 2014, The Use of Vaginal Packing at the Time of Surgery for Pelvic Organ Prolapse and Incontinence: A Retrospective Chart Review. *The*

26th Annual LSU School of Medicine Dept. of Obstetrics and Gynecology Resident Research Day, May, New Orleans, LA.

79. Williams V., Hodge K. and **Oral E.**, 2014, Clinical Staff Acceptability of Manual Vacuum Aspiration for Treatment of Incomplete Abortion in the Emergency Room Setting. *The 26th Annual LSU School of Medicine Dept. of Obstetrics and Gynecology Resident Research Day*, May, New Orleans, LA.
80. Harrington D.J., Rung A.L., **Oral E.** Trapido E.J. and Peters E.S., 2014, Challenges in Recruiting and Retaining Participants in the Women and Their Children's Health (WaTCH) Study Cohort. *Gulf of Mexico Oil spill and Ecosystem Science Conference*, January, Mobile, AL.
81. Leonardi C., **Oral E.*** and Robinson W.T., 2013, A Two-Stage Randomized Response Technique for Surveying Sensitive Topics. *The 27th Annual LSUHSC Graduate Research Day*, November, New Orleans, LA.
82. Gaston S., Peters E., **Oral E.**, Trapido E., Bronson M. and Rung A., 2013, An Examination of Perceived Social Support, Demographic Characteristics and Alcohol and Tobacco Use in Women who Experience Disaster. *The 28th Annual LSUHSC Graduate Research Day*, November, New Orleans, LA.
83. Leone K., Cardinale J. **Oral E.** and Lilje C., 2013, Feasibility and Reproducibility of Noninvasive Arterial Intima-Media Thickness Analysis at Different Vascular Sites. *2013 Medical Student Research Day*, October, New Orleans, LA.
84. Simonsen N.R., **Oral E.**, Berken J., Brennan C.S., Hayden, J. and Fontham E.T.H., 2013, Predicting Enrollment in a Multidisciplinary Prostate Cancer Study. *The Sixth Health Disparities Conference "Improving Medical Effectiveness and Health Outcomes to Achieve Health Equity Through Interprofessional Collaborations"*, March, New Orleans, LA.
85. Simonsen N.R., **Oral E.**, Berken J., Brennan C.S., Hayden, J. and Fontham E.T.H., 2013, Quality of Life Disparities in a Prostate Cancer Follow-up Study. *The Sixth Health Disparities Conference "Improving Medical Effectiveness and Health Outcomes to Achieve Health Equity Through Interprofessional Collaborations"*, March, New Orleans, LA.
86. Simonsen N.R., Brennan C.S., **Oral E.** and Fontham E.T.H., 2011, Quality of Life in Prostate Cancer: The Q-PCap Study. *Louisiana Cancer Research Consortium Annual Scientific Retreat 2011*, April, New Orleans, LA.
87. Brennan C.S., Simonsen N. R., **Oral E.** and Fontham E.T.H., 2011, Quality of Life in Prostate Cancer Project. *The Fourth Health Disparities Conference "Utilizing Interdisciplinary Strategies to Advance from Disparity to Reform"*, March, New Orleans, LA.
88. Erk G., **Oral E.** and Gogus N., 1999, The effects of VIMA and TIVA on Anesthesia Induction and Mental Functions in Geriatric Patients. *The 33 rd Turkish Anesthesiology and Reanimation Congress*, September, Mersin-Turkey.

Invited Talks

89. **Oral E.**, 2018, From Prevalence of Opioid Misuse to Lung Cancer Risk Prediction: Recent Advances in Survey Sampling and Generalized Linear Models. *Department of Population and Quantitative Health Sciences, Case Western Reserve University*, November 8, Cleveland, OH.
90. **Oral E.**, 2017, Working as a Statistician in the Big Easy. *Department of Business Administration, TED University*, December 18, Ankara-Turkey.
91. **Oral E.**, 2016, Recent Advances in Robust Estimation and Survey Sampling. *Department of Data Science, University of Mississippi Medical Center*, April 18, Jackson, MS.

92. **Oral E.**, 2016, From Cancer to the Deepwater Horizon Oil Spill: Analyzing Public Health Data. *Department of Preventive Medicine, University of Tennessee Health Sciences Center*, March 21, Memphis, TN.
93. **Oral E.**, 2016, Statistics in the Crescent City. *Department of Environmental Toxicology, Texas Tech University*, January 19, Lubbock, TX.
94. **Oral E.**, 2011, Robust Procedures: A Partial Review and Discussion for Applications in Signal Processing. *Research Seminars, Electrical Engineering Department, University of New Orleans*, October 27, New Orleans, LA.
95. **Oral E.**, 2011, Robust Estimators for Type-I Censored Samples under Non-normality. *Mathematics Colloquium Series, Department of Mathematics, University of Louisiana at Lafayette*, March 24, Lafayette, LA.
96. **Oral E.**, 2010, Robust Estimation in Logistic Regression via Modified Maximum Likelihood Methodology. *Stanley S. Scott Cancer Center*, March 12, New Orleans, LA.
97. **Oral E.**, 2005, Stochastic Covariates in Binary Regression. *Joint VA/CHS Biostatistics Seminars, Group Health Center for Health Studies*, January 7, Seattle, WA.

HONORS, AWARDS, SCHOLARSHIPS

- Travel Grant, The Society for Mathematical Biology (SMB), 2011.
- Travel Grant, International Statistical Institute (ISI), 2009.
- Travel Grant, The Scientific and Technological Research Council of Turkey (TUBITAK), 2007.
- Young Investigator Award, Middle East Technical University (METU), 2006.
- Travel Grant, The Scientific and Technological Research Council of Turkey, 2006.
- NATO Science Fellowship, 2004-2006.
- Postdoctoral Research Support from the President of the Middle East Technical University, 2004-2006.
- Travel Grant, The Scientific and Technological Research Council of Turkey, 2003.
- Second rank among the graduates of the Department of Statistics, a cohort of ≈ 100 students, 1995.

RESEARCH SUPPORT

Ongoing Research

- LA Medicaid Access for Treatment and Care for HCV (MATCH) Project
 - PI: Edward J. Trapido and Susanne Straif-Bourgeois, 11/1/2019 - Present
 - Louisiana Department of Health
 - Role: Co-Investigator, Effort: variable (10.0%-20.0%)
- LSUHSC, Section of Emergency Medicine, 1/1/2018 - Present
 - Role: Statistical Consultant, Effort: variable (5.0%-10%)
- mHealth Peer Support to Reduce Rates of STIs in Black MSM PrEP Users
 - PI: Meredith Clement, 9/2019 - Present
 - Mentored Patient-Oriented Research Career Development Award (K23) Project
 - Role: Biostatistician, Effort: 5.0%
- Examination of a Power Leg Press (PLP) Test in Cerebral Palsy: Reliability, Sensitivity to Change and Functional Significance
 - PI: Mattie Pontiff, 2019 - Present

Academy of Pediatric Physical Therapists (APPT) Mentored Grants
Role: Statistical Consultant/Biostatistician (Amount: 1500 \$ \approx 1%)

Completed Research

- Evaluating the Value of Implementing Asthma Guideline Recommendations and Asthma Control
PI: Nereida Parada, 3/2016 - 8/2018
LSU Health, HCSD Center for Healthcare Effectiveness Project
Role: Co-Investigator, Effort: variable (5.0%-30.0%)
- Improving Osteoporosis Screening for Women in the LSU HCSD Medical Home Patient Population
PI: Mary Thoesen Coleman, 2/10/2016 - 6/19/2018
LSU Health, HCSD Center for Healthcare Effectiveness Project
Role: Co-Investigator, Effort: variable (5.0%-30.0%)
- LSU-HCSD, Health Care Effectiveness Team, 3/1/2015 - 6/19/2018
Role: Biostatistician, Effort: variable (5.0%-30.0%)
- Barriers to Colorectal Screening of Patients in Medical Home Clinics
PI: Leigh Ann Burns, 2/24/2015 - 3/8/2017
LSU Health, HCSD Center for Healthcare Effectiveness Project
Role: Co-Investigator, Effort: variable (5.0%-30.0%)
- The Women and Their Children's Health (WaTCH) Study
PI: Edward J. Trapido, 7/1/2013 - 5/1/2016
National Institute of Health (1U01ES021497)
Role: Co-Investigator, Effort: 5%-8.0%
- Arterial Intima-Media Thickness and Glucose-Independent Protein Glycation in Children and Adolescents with Diabetes
PI: Lilje Christian, 6/1/2013 - 8/31/2014
Research Institute for Children, Intramural Clinical and Translational Grants Program: Independent Research Grant Application
Role: Biostatistician, Effort: 7.0%
- Quality of Life in Prostate Cancer Project (QPCaP)
PI: Brennan Christine, 7/1/2010 - 9/30/2013
National Institute of Health, National Cancer Institute, Recovery Act Limited Competition: Academic Research Enhancement Award (R15) NCI R15 CA151031
Role: Co-Investigator, Effort: 7.2%
- HHSN261201000030, Louisiana Tumor Registry, 7/1/2012 - 8/1/2013
Surveillance, Epidemiology and End Results (SEER) Expansion Program
Role: Biostatistician, Effort: 10%
- IMEX Study
PI, Ulrich Cornelia M., 9/2004 - 9/2005
National Institute of Health (R01 CA69334; T32 CA80416) and the U.S. Department of Agriculture Cooperative Research Agreement 58-1950-4-401
Role: Biostatistician

Pending Funding

- Can the Addition of Lung Ultrasound Increase the Sensitivity of the Clinical Analysis of Patients with COVID-19?
PI: Stephen Lim , Christine Butts
Submitted to EMF FUJIFILM SonoSite COVID-19 Point of Care Ultrasound Acceleration

Research Grant, 2020
Role: Co-Investigator

Genomics, mutational load and immune response in African American and Caucasian individuals with colorectal cancer
PI: Jovanny Zabaleta
Submitted to NIH (R01), 2020
Role: Biostatistician

Molecular determinants of Luminal B breast cancer in Latinas: roles of ancestry and obesity
PI: Jovanny Zabaleta
Submitted to NIH (R01), 2020
Role: Biostatistician

Not-funded Applications (Last 5 years)

Improving Population Prevalence Estimates for Opioid Use and Misuse
PIs: Evrim Oral, Rick Zimmerman
Submitted to NIDA-NIH (R21), 2020
Role: PI (Impact score: 49)

Improving Prevalence Estimates of Sensitive Behaviors for Men who Have Sex with Men
PI: Rick Zimmerman, Evrim Oral
Submitted to NIH (R21), 2020
Role: PI

The comparative effects of multiple nutrition support mechanisms on food security and nutrition status in low-income families in Louisiana
PI: Henry Nuss
Submitted to Robert Wood Johnson Foundation, 2019
Role: Co-Investigator

Evaluating a Peer-Based Smoking Cessation Program and a Social Justice Communication Campaign for Older Economically Disadvantaged African-American Men in Louisiana With a Cluster Randomized Design
PI: Rick Zimmerman
Submitted to NIDA-NIH (R01), 2018
Role: Biostatistician

Inflammation-related Genomics in African American and Caucasians with Colorectal Cancer
PI: Jovanny Zabaleta
Submitted to NIH (R21), 2018
Role: Biostatistician

Reducing the Negative Impact of News of Biomedical Advances in HIV on Risk Behavior: Providing the Foundation for Intervening with Public Relations Professionals
PI: Rick Zimmerman
Submitted to NIH (R21), 2018
Role: Biostatistician

Racial Disparities in Mental Health among Women after an Oil Spill: A Secondary Analysis
PI: Ariane Rung
Submitted to NIH (R03), 2018
Role: Co-Investigator

Identifying Epigenomic and Social Mechanisms in Support of Healthy Eating in African American Adolescent Females

PIs: Jovanny Zabaleta and Melinda Sothorn
Submitted to NIH (R01), 2018
Role: Co-Investigator/Biostatistician

The Social Environment and Race: Impact on Post-Disaster Mental Health Recovery
PI: Ariane Rung
Submitted to NIH (R03), 2018
Role: Co-Investigator

Genomic Markers of Immune Response of Colorectal Cancer in African Americans
PI: Jovanny Zabaleta
Submitted to NIH (R21), 2017
Role: Biostatistician

Improving Estimates of Prevalence of condom and drug use among women with high HIV risk
Submitted to: LA CaTS, 2017
Role: Principal Investigator

Maintaining and Enhancing the Women and their Children's Health (WaTCH) Cohort Study
PI: Edward J. Trapido
Submitted to: R24 Resource Related Research Projects, NIH/NIEHS, 2016
Role: Co-Investigator

Factors affecting BMI of injection drug users living in New Orleans with or without HIV
Submitted to: LA CaTS Pilot Funding Opportunity (Round 5), 2016
Role: Principal Investigator

Improving Patient Outcomes and Decreasing Chemotherapy Toxicities in Breast Cancer Patients
PI: Tekeda Ferguson
Submitted to PCORI, 2015
Role: Co-Investigator

Impact of DHOS on Women and their Children's Health
PI: Edward J. Trapido
Submitted to GoMRI, 2015
Role: Co-Investigator

Implementing Survivorship Care in clinical Trial Participants with Low Health Literacy
PI: Lorrie Powel
Submitted to NCORP CCDR Committee, 2015
Role: Biostatistician

PROFESSIONAL ACTIVITIES

Affiliated Institutions

Statistical Consultant: LSUHSC, Section of Emergency Medicine, New Orleans, LA, 2018 - Present

Statistical Consultant: LSUHSC, Department of Obstetrics and Gynecology, New Orleans, LA, 2013 - 2014

Adjunct Faculty: Institute of Applied Mathematics, METU, Ankara-Turkey, 2007 - 2008

Research Associate: Fred Hutchinson Cancer Research Center, Seattle, WA, 2004 - 2006.

Research Associate: Group Health Research Institute (Formerly: Group Health Cooperative, Center for Health Studies), Seattle, WA, 2004 - 2006.

Departmental Service

- PhD Comprehensive Exam Committee Member: LSUHSC-SPH, Biostatistics Program, New Orleans, LA, 2009 - Present
- Biostatistics Program Seminar Coordinator: LSUHSC-SPH, Biostatistics Program, New Orleans, LA, Fall 2018 - Spring 2019
- Biostatistics Program Seminar Coordinator: LSUHSC-SPH, Biostatistics Program, New Orleans, LA, Fall 2010 - Spring 2011
- MS/PhD Admissions Committee Member: Department of Statistics, METU, Ankara-Turkey, 2006 - 2008
- PhD Qualifying Exam Committee Member: Department of Statistics, METU, Ankara-Turkey, 2006 - 2008.
- Department of Statistics Seminar Coordinator: Department of Statistics, METU, Ankara-Turkey, Fall 2006 - Spring 2007.

University Service

- LSUHSC Faculty Annual Review System Committee Member: LSUHSC, New Orleans, LA, 2019 - Present (Elected)
- Faculty Senator: LSUHSC, New Orleans, LA, 2017 - Present (Elected)
- Grievance Committee Member: LSUHSC-SPH, New Orleans, LA, 2020 - Present (Appointed)
- Chair of the Bylaws, Nominations, Elections Committee: LSUHSC-SPH, New Orleans, LA, 2020
- Bylaws, Nominations, Elections Committee Member: LSUHSC-SPH, New Orleans, LA, 2019 - Present (Elected)
- Grievance Committee Member: LSUHSC-SPH, New Orleans, LA, 2018 - 2020 (Elected)
- Evaluation Committee Member: LSUHSC-SPH, New Orleans, LA, 2012 - 2018 (Appointed)
- Grievance Committee Member: LSUHSC-SPH, New Orleans, LA, 2010 - 2013 (Elected)
- Strategic Planning-Technology/Communication Ad-Hoc Committee Member: LSUHSC-SPH, New Orleans, LA, 2009 (Appointed)
- Moodle Implementation Project Ad-Hoc Committee Member: LSUHSC-SPH, New Orleans, LA, 2009 (Appointed)
- Academic Assessment and Quality Improvement Committee Member: METU, Ankara-Turkey, 2006 - 2008 (Appointed)

Professional Service

- Associate Editor: *Biometrics and Biostatistics International Journal*, 2014- Present
- Judge: Summer Research Program Poster Day, LSUHSC, New Orleans, LA, July 2018
- Judge: The 31st Graduate Research Day, LSUHSC, New Orleans, LA, November 2017
- Secretary/Treasurer: Louisiana Chapter of the American Statistical Association, 2017 - 2018
- President: Louisiana Chapter of the American Statistical Association, 2016 - 2017
- Vice President: Louisiana Chapter of the American Statistical Association, 2015 - 2016
- Secretary/Treasurer: Louisiana Chapter of the American Statistical Association, 2014 - 2015

President: Louisiana Chapter of the American Statistical Association, 2013 - 2014

Vice President: Louisiana Chapter of the American Statistical Association, 2012 - 2013

Organizer: LA Chapter of the American Statistical Association Spring Meeting, New Orleans, LA, April 2015

Chairman and Organizer of the two Invited Sessions entitled 'Recent Advances in Survey Sampling I' and 'Recent Advances in Survey Sampling II', at the *International Conference on Advances in Interdisciplinary Statistics and Combinatorics*, Greensboro, North Carolina, October 2012

Facilitator of the 'ISI Committee on Women in Statistics Meetings' (Roundtable Discussions at *The 58th World Statistics Congress of the International Statistical Institute*, Dublin-Ireland, August 2011

Organizing Committee Member, Program Committee Member, and Instructor: *The Graduate Summer School on New Advances in Statistics*, METU, Ankara-Turkey, August 2007

Peer Review Activities: journal name, year (number of manuscripts reviewed)

Applied Mathematical Modeling, 2011 (1)

BMJ Open, 2017 (1)

Colombian Journal of Statistics, 2012 (1)

Communications in Statistics - Simulation and Computation, 2018 (1), 2019 (2)

Communications in Statistics - Theory and Methods, 2017 (1), 2018 (1), 2019 (3)

Epidemiology, 2020 (1)

International Journal of Computing Science and Mathematics, 2017 (1)

Involve, 2016 (1)

Journal of Applied Statistics, 2012 (1)

Journal of Multivariate Analysis, 2014 (1)

Journal of Statistical Computation and Simulation, 2010 (1), 2011 (2), 2015 (1)

Journal of Statistical Theory and Practice, 2018 (1), 2019 (1)

Journal of Official Statistics, 2014 (1), 2020 (1)

Mathematical Population Studies: An International Journal of Mathematical Demography, 2019 (1)

Mathematics, 2019 (2), 2020 (1)

Pakistan Journal of Statistics, 2013 (2)

Plos ONE, 2014 (1)

Scientific Research and Essays, 2011 (1)

Statistics, 2009 (1)

Statistics, Optimization and Information Computing, 2017 (1)

Symmetry, 2019 (1)

The American Statistician, 2012 (1), 2015 (1)

STATISTICAL CONSULTING

- Project/Grant Name: Use of ketamine therapy to relieve treatment-resistant depression. Investigator: Rachel E. Landrum, Department of Medicine, LSUHSC, New Orleans, LA, 2020.
- Project/Grant Name: Models of Pharmacological Agonism. Investigator: Charles Nichols, PhD, Department of Pharmacology and Experimental Therapeutics, LSUHSC, New Orleans, LA, 2019.
- Project/Grant Name: Characteristics and Demographics of Patients Who Tested Positive for HIV in the UMCNO-ED. Investigator: Lisa Moreno-Walton, MD, MS, FACEP, FAAEM, LSUHSC, School of Medicine, New Orleans, LA, 2019.
- Project/Grant Name: Advancing Diversity and Inclusion: An Organized Approach through a Medical Specialty Academy. Investigator: Lisa Moreno-Walton, MD, MS, FACEP, FAAEM, LSUHSC, School of Medicine, New Orleans, LA, 2019.
- Project/Grant Name: Racial Disparities in the Management of Pediatric Trauma in Greater New Orleans. Investigator: Lisa Moreno-Walton, MD, MS, FACEP, FAAEM, LSUHSC, School of Medicine, New Orleans, LA, 2019.
- Project/Grant Name: Determining Social Predictors of Sexually Transmitted Infections in Black MSM. Investigator: Meredith Clement, MD, LSUHSC, Department of Medicine, New Orleans, LA, 2019.
- Project/Grant Name: Factors Influencing Inaccurate Focused Assessment with Sonography in Trauma Exams at a Level 1 Trauma Center. Investigator: Christine Butts, MD, LSUHSC, Section of Emergency Medicine, New Orleans, LA, 2018.
- Project/Grant Name: Identifying Frequent Utilizing Emergency Department Patients Through Risk Assessment Scoring for Early Intervention. Investigators: Jennifer Avegno, MD and Qi C. Zhang, MD, LSUHSC, Section of Emergency Medicine, New Orleans, LA, 2018.
- Project/Grant Name: Effects of Treatment with Branched-chain Amino Acid Supplementation During Sorafenib Therapy for Hepatocellular Carcinoma. Investigators: Richard H. Marshall, MD, Laura Kerns, MPH, RD, CSO, Department of Radiology, LSUHSC, New Orleans, LA, 2017.
- Project/Grant Name: LSU Faculty Burnout and Well-Being Index. Investigators: Jayne Weiss, MD, Department of Ophthalmology, LSUHSC, New Orleans, LA, 2017.
- Project/Grant Name: Does the Y-Balance Test Predict Injury in CrossFit Participants? Investigators: Thuha Hoang, PT, MHS, Department of Physical Therapy, LSUHSC, New Orleans, LA, 2014-2015.
- Project/Grant Name: Novel Function for DNA-Dependent Protein Kinase in Lung Inflammation (R01 grant application). Investigators: Hamid Boulares, PhD, Department of Pharmacology and Experimental Therapeutics, LSUHSC, New Orleans, LA, 2014.
- Statistical Consulting Services to the Residents and Faculty of the LSUHSC Department of Obstetrics and Gynecology, New Orleans, LA, 2013-2014.
- Project/Grant Name: The NICU Microbiome and Gastrointestinal Bacterial Colonization in the Hospitalized Premature Infant. Investigators: Duna Penn, MD, Department of Pediatrics, Children's Hospital, New Orleans, LA, 2013.
- Project/Grant Name: Factors Affecting Premature Babies' Alkaline Phosphatase Levels. Investigators: Christy G. Mumphrey, Ricardo Gomez, MD, Department of Endocrinology and Diabetes, Children's Hospital, New Orleans, LA, 2013.
- Project/Grant Name: Factors Affecting Use of Child Booster Seats. Investigator: Jerussa Aita-Levy, MD, MPH, Department of Pediatrics, Children's Hospital, New Orleans, LA, 2013.

Project/Grant Name: Repair of Total Anomalous Pulmonary Venous Return: Long Term Follow-up. Investigator: Joseph Caspi, MD, LSUHSC, Division of Cardiothoracic Pediatric Surgery, New Orleans, LA, 2013.

Project/Grant Name: Assessment of Myocardial Injury after Pediatric Cardiac Catheterisation by Troponin Assays and Other Markers. Investigator: Christian Lilje, MD, FACC, Pediatric Cardiology, Prenatal Cardiology LSUHSC School of Medicine and Children's Hospital, New Orleans, LA, 2012.

Project/Grant Name: Arsenic Exposure and Pancreatic Cancer in South Louisiana. Investigators: Elizabeth Fontham, PhD and Neal Simonsen, PhD, LSUHSC, School of Public Health, Epidemiology Program, LA, 2012.

Project/Grant Name: Disability in Children with Irritable Bowel Syndrome (IBS) and Fibromyalgia. Investigators: Charles G. Otu-Nyarko, MD and Paul E. Hyman, MD, Pediatric Gastroenterology, LSUHSC, Childrens Hospital of New Orleans, LA, 2011.

Project/Grant Name: Glucose-Independent Protein Glycation and Development of Diabetes Complications (ADA Grant Application). Investigator: Stuart Chalew, MD, Endocrinology Division, Children's Hospital, New Orleans, LA, 2011.

Project/Grant Name: Exploration of Food Groups and Nutrients in Lung Cancer. Investigators: Neal Simonsen, PhD, and Elizabeth Fontham, PhD LSUHSC, School of Public Health, Epidemiology Program, LA, 2011.

Project/Grant Name: The Effects of Implementation of Standardized Medication Reconciliation Strategies in an Electronic Health Records Enabled Outpatient Clinic on Cardiovascular Risk Factors in Diabetic Adults. Investigator: Diana McDermott, MD, MPH, Department of Medicine, Section of General Internal Medicine, LSUHSC School of Medicine, New Orleans, LA, 2010.

Project/Grant Name: Review of Fracture Patterns in Motor Vehicle Related Maxillofacial Trauma Associated with Method of Restraint. Investigators: Jules A. Walters, III, MD and M. Whitten Wise, MD, Department of Surgery, Division of Plastic and Reconstructive Surgery, LSUHSC School of Medicine, New Orleans, LA, 2009.

Project/Grant Name: Quantifying Effects of Age and Gender on Vocal Fold Vibration by Using High-speed Digital Imaging and Phonovibrogram. Investigator: Melda Kunduk, Department of Clinical Otorhinolaryngology, LSUHSC School of Medicine, New Orleans, LA, 2008.

COMPUTING SKILLS

Programming Languages	FORTRAN, R, S-PLUS, MATLAB, Python
Statistical Packages	SAS, S-PLUS, MINITAB, SPSS, STATISTICA, STATA
Other Software & Tools	PASS, LaTeX, Scientific Word, Mathematica, Mathcad, HTML

PROFESSIONAL MEMBERSHIPS

American Statistical Association (ASA)

American Statistical Association (ASA)- Louisiana Chapter

International Indian Statistical Association (IISA)

International Biometric Society (IBS)-The Eastern Mediterranean Region (EMR)