

# *Evrin Oral, PhD*

Updated: July 18, 2018

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## ***MAILING ADDRESS***

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2020 Gravier Street 3rd Floor  
LSUHSC-SPH, Biostatistics Program  
New Orleans, LA 70122

**Phone:** (504) 568-6094  
**Fax:** (504) 568-5701  
**E-mail:** eoral@lsuhsc.edu

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## ***EDUCATION***

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

**Master of Science in Statistics:** Hacettepe University 9/1998  
**Dissertation Title:** Comparing Estimators Using Pitmans 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*)

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## ***PROFESSIONAL EXPERIENCE AND APPOINTMENTS***

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**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 Assistant**

2/1996 - 4/2003

Hacettepe University, Department of Statistics  
Ankara, Turkey

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**TEACHING EXPERIENCE**

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**LSUHSC**

**Undergraduate Level:** Summer Health Professions Education Program (SHPEP)

**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/MPH Level:** Advanced Probability Theory I, Advanced Probability Theory II

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**GRADUATE STUDENT SUPERVISION**

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**Supervisor**

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. (*Post-doc, Stanley S. Scott Cancer Center*).

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 Prof., Behavioral and Community Health Sciences Program, LSUHSC*).

**Committee Member**

MS candidate: McKensie P. Osborn, LSUHSC, School of Public Health, Biostatistics Program, 2018-Present.

PhD candidate: Tat Yau, LSUHSC, School of Public Health, Biostatistics Program, 2017-Present.

PhD candidate: Christie Watters, LSUHSC, School of Public Health, Biostatistics Program, 2017-Present.

- 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): Jennifer Hayden, LSUHSC, School of Public Health, Biostatistics Program, 2011.
- MS (completed): Vilda Purutcuoglu, METU, Statistics Department, 2003.

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## **PUBLICATIONS**

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### **Book Chapters**

1. **Oral E.**, 2007, Recent Developments in Robust Statistical Methods in "Recent Advances in Statistics", Turkish Statistical Institute Press, Chapter 12, pp. 151-166. ISBN: 978-975-01606-0-8.

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

2. **Oral E.** and Danos D., 2018, Modeling Binary Regression with Stochastic Covariates. To Appear in: *Communication in Statistics-Theory and Methods*.
3. 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
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 Womens Depression and Mental Distress. *Disaster Medicine and Public Health Preparedness*, DOI: 10.1017/dmp.2018.14.
5. 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.
6. 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 Childrens Health (WaTCH) Study. *Environment and Behavior*, DOI: 10.1177/0013916517726827.
7. 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 Childrens 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.
8. **Oral E.**, 2017, Modified Maximum Likelihood Estimation in Poisson Regression. *Biometrics & Biostatistics International Journal*, 6(1): 00154. DOI:10.15406/bbij.2017.06.00154.
9. **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.

10. 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.
11. 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 Childrens Health Study. *Environmental Health Prespectives*, DOI:10.1289/EHP167.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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. *American Medical Journal*, 3(2), 104-114.
17. **Oral E.**, 2012, Robust Estimation in Non-normal Samples with Known Detection Limits, *International Journal of Mathematics and Statistics*, 12(2), 16-37.
18. **Oral E.** and Kadilar C., 2011, Robust Ratio-type Estimators in Simple Random Sampling. *Journal of the Korean Statistical Society*, 40(4), 457-467.
19. **Oral E.** and **Oral E.**, 2011, A Robust Alternative to the Ratio Estimator under Non-normality. *Statistics and Probability Letters*, 81(8), 930-936.
20. **Oral E.** and Kadilar C., 2011, Improved Ratio Estimators via Modified Maximum Likelihood. *Pakistan Journal of Statistics*, 27(3), 269-282.
21. 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.
22. **Oral E.**, 2006, Binary Regression with Stochastic Covariates. *Communications in Statistics-Theory and Methods*, 35(8), 1429-1447.
23. 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.
24. **Oral E.** and Gunay S., 2004, Stochastic Covariates in Binary Regression. *Hacettepe Journal of Mathematics and Statistics*, 33, 97-109.

25. 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 and Non-refereed Journals

26. **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.
27. 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.
28. **Oral E.**, 2011, Parameter Estimation in Generalized Linear Models through Modified Maximum Likelihood. *International Statistical Institute: Proc. 58th World Statistical Congress*, 4632-4637.
29. 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.
30. **Oral E.**, 2011, Non-normal Type-I Censored Samples in Logistic Regression. *In JSM Proceedings, Biometrics Section*. Alexandria, VA: American Statistical Association. 1944-1952.
31. **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.
32. **Oral E.**, 2009, Estimation in Logistic Regression Models with Bivariate Stochastic Covariates. *Bulletin of the International Statistical Institute*, 1-6.
33. **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.
34. **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.
35. **Oral E.**, 2003, Nonlinear Relationship in Binary Regression. *Bulletin of the International Statistical Institute*, 60 (2) 196-197.
36. **Oral E.** and Gunay S., 1998, Comparing Estimators via Pitmans Measure of Closeness. *Proceedings of Research Symposium98 of State Institute of Statistics, Prime Ministry Republic of Turkey*, 167-176.
37. **Oral E.** and Gunay S., 1998, Pitmans Measure of Closeness. *Proceedings of the Statistics Conference, Gazi University*, 69-83.

#### Published Abstracts (Peer Reviewed)

38. Spiers, S. and **Oral E.\***, 2017, Limits of Propensity Score Weighting Adjustment for Unit Non-response. *Annals of Epidemiology*, 27(8): 526.
39. 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.

40. 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.

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## PRESENTATIONS

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### Presentations at Professional Meetings

1. **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.
2. 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 Womens Depression and Mental Distress. *The Society of Behavioral Medicine*, April, New Orleans, LA.
3. **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.
4. **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**).
5. Danos D. and **Oral E.\***, 2015, Inference in Binary Regression with Stochastic Covariates. *2015 Lloyd Roeling UL Lafayette Mathematics Conference: Statistics*, November, Lafayette, LA.
6. 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.
7. **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.
8. 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.
9. 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).
10. 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).
11. 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.
12. 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.

13. **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)**
14. 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.
15. **Oral E.**, 2012, Stochastic and Nonstochastic Explanatory Variables in Generalized Linear Models. *The 2012 Joint Statistical Meetings*, August, San Diego, CA.
16. 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.
17. 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.
18. 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.
19. **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.
20. **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)**
21. **Oral E.**, 2011, Robust Estimation in Simple Random Sampling. *2011 Lloyd Roeling UL Lafayette Mathematics Conference*, November, Lafayette, LA.
22. **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.
23. 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.
24. **Oral E.**, 2011, Non-normal Type-I Censored Samples in Logistic regression. *The 2011 Joint Statistical Meetings*, August, Miami, FL.
25. 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.
26. **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.
27. **Oral E.**, 2010, Improving Efficiency of Survey Sampling Procedures through Order Statistics. *The 2010 Joint Statistical Meetings*, August, Vancouver, B.C.-Canada.
28. **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.
29. **Oral E.**, 2009, Estimation in Logistic Regression Models with Bivariate Stochastic Covariates. *The 57th Session of the International Statistical Institute*, August, Durban-South Africa.

30. **Oral E.** and Kadilar C., 2009, Modified Ratio Estimators in Simple Random Sampling. *The 2009 Joint Statistical Meetings*, August, Washington D.C.
31. **Oral E.**, 2007, Multinomial Logistic Regression Models with a Stochastic Design Variable. *The 2007 Joint Statistical Meetings*, July, Salt Lake City, UT.
32. **Oral E.**, 2006, Modified Maximum Likelihood Estimation of the Proportional Odds Model. *The 2006 Joint Statistical Meetings*, August, Seattle, WA.
33. **Oral E.**, 2006, Robust Estimation in Multinomial Logit Models. *The XXIIIrd International Biometric Conference*, July, Montreal, Quebec-Canada.
34. **Oral E.**, 2005, Parameter Estimation in Poisson Regression via Modified Maximum Likelihood Method. *The 2005 Joint Statistical Meetings*, August, Minneapolis, MN.
35. **Oral E.** and Miglioretti D. L., 2005, Multivariable Binary Regression with Stochastic Covariates. *IBS-ENAR Spring Meetings*, March, Austin, TX.
36. **Oral E.**, 2003, Nonlinear Relationship in Binary Regression. *The 54th Session of International Statistical Institute*, August, Berlin-Germany.
37. **Oral E.**, 2003, Modified Maximum Likelihood Estimators in Binary Regression. *The 2nd International Biometric Society Conference of the Eastern Mediterranean Region*, January, Antalya-Turkey.
38. **Oral E.** and Gunay S., 1998, Comparing Estimators via Pitmans Measure of Closeness. *Research Symposium 98 of State Institute of Statistics, Prime Ministry Republic of Turkey*, November, Ankara- Turkey.
39. **Oral E.** and Gunay S., 1998, Pitmans Measure of Closeness. *Gazi University Statistics Conference*, October, Ankara-Turkey.

#### Posters at Professional Meetings

40. 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.
41. Spiers, S. and **Oral E.\***, 2017, Effects of Link Misspecification in Propensity-score Weighting Adjustment. *The 2017 Joint Statistical Meetings*, August, Baltimore, MD.
42. 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.
43. **Oral E.** and Danos D., 2016, Link Misspecification in Binary Regression. *The 2016 International Indian Statistical Association Conference on Statistics*, August, Corvallis, OR.
44. 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.
45. Danos D. and **Oral E.\***, 2015, Noncanonical Links in Binary Regression. *LSUHSC-SOM Graduate Research Day 2015*, November, New Orleans, LA.
46. 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.

47. 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.
48. 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 Childrens Health (WaTCH) Study in Louisiana. *2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference*, February, Houston, TX.
49. 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 Childrens Health Study (WaTCH) Exposed to the Deepwater Horizon Oil Spill (DWOS). *2015 Gulf of Mexico Oil Spill & Ecosystem Science Conference*, February, Houston, TX.
50. 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 Childrens Health (WaTCH) Study in Louisiana. *The NIEHS Deepwater Horizon Research Consortium Annual Meeting*, January, New Orleans, LA.
51. 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 Childrens Health (WaTCH) Study in Louisiana. *American Public Health Association Annual Meeting*, November, New Orleans, LA.
52. 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.
53. 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.
54. 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 Childrens Health (WaTCH) Study in Louisiana. *The 47th Annual Society for Epidemiologic Research Meeting*, June, Seattle, WA.
55. 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 Childrens Health Study (WaTCH). *The 47th Annual Society for Epidemiologic Research Meeting*, June, Seattle, WA.
56. 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.
57. 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.
58. 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 Childrens Health (WaTCH) Study Cohort. *Gulf of Mexico Oil spill and Ecosystem Science Conference*, January, Mobile, AL.

59. 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.
60. 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.
61. 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.
62. 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.
63. 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.
64. 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.
65. 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.
66. 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

67. **Oral E.**, 2017, Working as a Statistician in the Big Easy. *Department of Business Administration, Faculty of Economics and Administrative Sciences, Ted University*, December 18, Ankara, Turkey.
68. **Oral E.**, 2016, Recent Advances in Robust Estimation and Survey Sampling. *Center of Biostatistics and Bioinformatics, Department of Preventive Medicine, University of Mississippi Medical Center*, April 18, Jackson, Mississippi.
69. **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, Tennessee.
70. **Oral E.**, 2016, Statistics in the Crescent City. *Department of Environmental Toxicology, The Institute of Environmental and Human Health, Department of Environmental Toxicology, Texas Tech University*, January 19, Lubbock, Texas.
71. **Oral E.**, 2011, Robust Procedures: A Partial Review and Discussion for Applications in Signal Processing. *Research Seminars at Electrical Engineering Department, University of New Orleans*, October 27, New Orleans, Louisiana.
72. **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, Louisiana.

**73. Oral E.**, 2010, Robust Estimation in Logistic Regression via Modified Maximum Likelihood Methodology. *Stanley S. Scott Cancer Center*, March 12, New Orleans, Louisiana.

**74. Oral E.**, 2005, Stochastic Covariates in Binary Regression. *Joint VA/CHS Biostatistics Seminars, Group Health Center for Health Studies*, January 7, Seattle, Washington.

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## ***RESEARCH INTERESTS***

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

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## ***HONORS, AWARDS, SCHOLARSHIPS***

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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, 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  $\approx 100$  students, 1995.

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## ***RESEARCH SUPPORT***

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### **Ongoing Research**

LSUHSC, Section of Emergency Medicine, 1/1/2018 - Present  
Role: Statistical Consultant, Effort: variable

Evaluating the Value of Implementing Asthma Guideline Recommendations and Asthma Control,  
PI: Nereida Parada, 3/2016 - Present  
LSU Health, HCSD Center for Healthcare Effectiveness Project  
Role: Co-Investigator, Effort: variable

### **Completed Research**

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

LSU-HCSD, Health Care Effectiveness Team, 3/1/2015 - 6/19/2018  
Role: Biostatistician, Effort: variable (1.0%-30.0% (max))

The Women and Their Childrens 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**

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

Genomic Markers of Immune Response of Colorectal Cancer in African Americans

PI: Jovanny Zabaleta

Submitted to NIH (R21), 2017

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

### **Not-funded Applications (Last 3 years)**

The Social Environment and Race: Impact on Post-Disaster Mental Health Recovery

PI: Ariane Rung

Submitted to NIH (R03), 2018

Role: Co-Investigator

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 Childrens 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 Childrens 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, L. Powel  
Submitted to NCORP CCDR Commitee, 2015  
Role: Biostatistician

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## ***PROFESSIONAL ACTIVITIES***

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### **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

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

Researcher: 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 2010 - Spring 2011 & Fall 2018 - Spring 2019

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**

Faculty Senator: LSUHSC, New Orleans, LA, 2017 - Present

Evaluation Committee Member: LSUHSC-SPH, New Orleans, LA, 2012 - Present

Grievance Committee Member: LSUHSC-SPH, New Orleans, LA, 2010 - 2013 & 2018 - Present

Strategic Planning-Technology/Communication Ad-Hoc Committee Member: LSUHSC-SPH, New Orleans, LA, 2009

Moodle Implementation Project Ad-Hoc Committee Member: LSUHSC-SPH, New Orleans, LA, 2009

Academic Assessment and Quality Improvement Committee Member: METU, Ankara-Turkey, 2006 - 2008

### **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)**

Journal of Statistical Theory and Practice, 2018 (1)

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

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

Statistics, Optimization and Information Computing, 2017 (1)

BMJ Open, 2017 (1)

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

Involve, 2016 (1)

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

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

Journal of Multivariate Analysis, 2014 (1)

Journal of Official Statistics, 2014 (1)

Plos ONE, 2014 (1)  
Pakistan Journal of Statistics, 2013 (2)  
Colombian Journal of Statistics, 2012 (1)  
Journal of Applied Statistics, 2012 (1)  
Applied Mathematical Modeling, 2011 (1)  
Scientific Research and Essays, 2011 (1)  
Statistics, 2009 (1)

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## ***STATISTICAL CONSULTING***

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- 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.

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## ***COMPUTING SKILLS***

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

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## ***PROFESSIONAL MEMBERSHIPS***

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American Statistical Association (ASA)

American Statistical Association (ASA)- Louisiana Chapter

International Indian Statistical Association (IISA)

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