

Evrin 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 Tikun, 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

<i>Undergraduate Level:</i>	Summer Health Professions Education Program (SHPEP), Basic Statistics (School of Nursing)
<i>PhD/MS/MPH Level:</i>	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

<i>Undergraduate Level:</i>	Biostatistics, Probability I, Probability II, Probability Theory, Statistics for Engineers, Statistical Quality Control, Nonparametric Statistics, Statistical Computing I
<i>PhD/MS Level:</i>	Advanced Probability Theory I, Advanced Probability Theory II

Hacettepe University

<i>Undergraduate Level:</i>	Mathematical Statistics I, Mathematical Statistics II (as TA)
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GRADUATE STUDENT SUPERVISION

Supervisor

- PhD Student: Mohamed S. Mohamed, LSUHSC, School of Public Health, Biostatistics Program, 2024-Present.
- MS Student: Mykia N. Wiggins, LSUHSC, School of Public Health, Biostatistics Program, 2024-Present.
- PhD Student (dropped out): Yaqi Zou, LSUHSC, School of Public Health, Biostatistics Program, 2023-2024.
- MS (completed): Katie Sternberger, LSUHSC, School of Public Health, Biostatistics Program, 2023. Thesis title: Assessing the Effects of Oil Spill Exposure and Parental Resources on Children's Mental Health after the Deepwater Horizon Oil Spill.

- MS (completed): Tina Trosclair, LSUHSC, School of Public Health, Biostatistics Program, 2022. Thesis title: Extension of Ardah and Oral's Two-Stage Sampling Design to the Polychotomous Case: A Simulation Study. (*Statistician, Neptune and Company*).
- MS (completed): Jessica K. Fox, LSUHSC, School of Public Health, Biostatistics Program, 2021. Thesis title: Comparison of Some Indirect Questioning Techniques with an Application to Intimate Partner Violence. (*Data Analyst, Lockheed Martin*).
- 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 student: Helen Neil, LSUHSC, School of Nursing, 2023-Present.
- PhD student: Monchielle Bolds, LSUHSC, School of Nursing, 2023-Present.
- PhD student: Carla Vidrine, LSUHSC, School of Nursing, 2023-Present.
- PhD (completed): Xiaodan Zhu, LSUHSC, School of Public Health, Biostatistics Program, 2024.
- PhD (completed): Harun Mazumder, LSUHSC, School of Public Health, Biostatistics Program, 2024.
- PhD (completed): Tyler Prusisz, LSUHSC, School of Public Health, Epidemiology Program, 2024.
- PhD (completed): Indrani Sarkar, LSUHSC, School of Public Health, Biostatistics Program, 2024.
- PhD (completed): Lisa B. Moses, LSUHSC, School of Public Health, Behavioral & Community Health Sciences Program, 2023.
- PhD (completed): Muhammad Amjad, Department of Mathematics and Statistics Faculty of Basic and Applied Sciences, International Islamic University, Islamabad, Pakistan, 2022 (**External Reviewer**).
- PhD (completed): Wentao Cao, LSUHSC, School of Public Health, Biostatistics Program, 2022.
- PhD (completed): Pontiff Mattie, LSUHSC, School of Allied Health Professions, Department of Physical Therapy, 2022.
- PhD (completed): Asad Ali, Department of Economics and Statistics, School of Business and Economics, University of Management and Technology in Lahore, Pakistan, 2022 (**External Reviewer**).
- PhD (completed): Madhav KC, LSUHSC, School of Public Health, Epidemiology Program, 2021.

PhD (completed): Muhammad Umair Tariq, The National College of Business Administration and Economics, Department of Applied Statistics, 2021 (**External Reviewer**).

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): Nick Sorrell, LSUHSC, School of Public Health, Biostatistics Program, 2023.

MS (completed): Alex Martinez, LSUHSC, School of Public Health, Biostatistics Program, 2023.

MS (completed): Chaoyi Zeng, LSUHSC, School of Public Health, Biostatistics Program, 2021.

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.

MS (completed): Vilda Purutcuoglu, METU, Statistics Department, 2003.

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. Moses L., Oral E., and Williams D., 2024, The Relationship Between Social Support and Patient Characteristics Among Young Women with Breast Cancer, To Appear in: *Journal of the Louisiana Public Health Association*.
4. Davis A.H. Giarratano G. and Oral E., 2024, The Impact of a High-Risk Obstetric Simulation Program on Pre-Licensure Student Clinical Reasoning, To Appear in: *Nursing Education Perspectives*.
5. Rung A., Oral E., Prusisz T., and Peters ES., 2024, Disparities and Protective Factors in Pandemic-Related Mental Health Outcomes: A Louisiana-Based Study. To Appear in: *Frontiers in Public Health*.
6. Fitzpatrick-Schmidt T., Oral E., Welsh D.A., Molina P.E., Ferguson T.F. and Edwards S., 2024, Moderate to severe cognitive impairment is associated with both recent and chronic alcohol misuse: The New Orleans Alcohol Use in HIV (NOAH) Study. To Appear in: *Alcohol: Clinical and Experimental Research*.
7. Kansara S., Oral E., Sarkar I., Sandulache V., Mualla R., Walvekar R.R., Ryan W. and Ha P., 2024, Rate of Occult Metastasis in Lip Squamous Cell Carcinoma: A Systematic Review and Meta-Analysis. To Appear in: *Head & Neck*.
8. Rung A., Oral E., Prusisz T., and Peters ES., 2024, Pandemic Experiences among Louisiana Adults: Demographic and Behavioral Correlates. To Appear in: *Journal of the Louisiana Public Health Association*.
9. Kumar S. and Oral E., 2024, Assessment of Covid-19 Pandemic in Europe using Hierarchical Clustering Based on Principal Components Analysis. To Appear in: *Journal of Autonomous Intelligence*.
10. Ahmed A., Hanif M. and Oral E.*, 2023, Robust Ratio Estimation with an Application to Covid-19 Data from Louisiana. *Journal of Advances in Mathematics and Computer Science*, 38:9, 65-80. doi: <https://doi.org/10.9734/jamcs/2023/v38i91805>
11. Joslyn P., Oral E., Martin A., Surcouf J., and Barkemeyer B., 2023, Maternal hypertension and early-onset neonatal neutropenia. To Appear in: *Fetal and Pediatric Pathology*, doi: 10.1080/15513815.2023.2220406.
12. Ikuma T., McWhorter A.J., Oral E., and Kunduk M., 2023, Formant-Aware Spectral Analysis of Sustained Vowels of Pathological Breathy Voice. To Appear in: *Journal of Voice*.
13. Choo EK., Strehlow M., Del Rios M., Oral E., et al., 2023, An Observational Study of Organizational Responses of 17 U.S. Hospitals Over the First Year of the COVID-19 Pandemic. *BMJ Open* 2023;13:e067986. doi: 10.1136/bmjopen-2022-067986
14. Ahmed A. Sanaullah A. Oral E. and Hanif M., 2023, Robust Ratio Estimators of Population Mean for Skewed and Contaminated Population. *Journal of Statistical Computation and Simulation*, 93:5, 800-817. doi: 10.1080/00949655.2022.2120994
15. KC M., Oral E. Rung A.L., Trapido E., Rozek L.S., Fontham E.T.H., Bensen J.T., Farnan L., Steck S., Song L., Mohler J.L. and Peters E.S., 2023, Prostate Cancer Aggressiveness and Financial Toxicity among Prostate Cancer Patients. *The Prostate*, 83:44-55. doi: 10.1002/pros.24434.

16. KC M., **Oral E.**, Rung A.L., Trapido E., Rozek L.S., Fontham E.T.H., Bensen J.T., Farnan L., Steck S., Song L., Mohler J.L., Khan S., Vohra S. and Peters E.S., 2022, Neighborhood Deprivation and Risk of Mortality Among Men with Prostate Cancer: Findings from a Long-term Follow-up Study. *The Prostate*, doi: 10.1002/pros.24320
17. Afaneh H., Straif-Bourgeois S. **Oral E.**, Wennerstrom A., Sugarman O., Robinson W.T., Whittington A. and Trapido E., 2021, Louisiana Medicaid Access for Treatment and Care for Hepatitis C Virus (LA-MATCH) Project: A Cross-sectional Study Protocol. To Appear in: *PLOS ONE*.
18. Butts C., Wilson J., Lasseigne L., **Oral E.**, and Kaban N., 2021, Ultrasound of the Optic Nerve does not Appear to be a Consistently Reliable or Generalizable Method to Monitor Changes in Intracranial Pressure. To Appear in: *Journal of Intensive Care Medicine*.
19. Yang D., **Oral E.**, Kim J., Craft T. and Moore M.B., 2021, Depression and Perceived Social Support in Asian American Medical Students. To Appear in: *Journal of Racial and Ethnic Health Disparities*.
20. Rung A.L., **Oral E.** and Peters E.S., 2020, Work-family spillover and depression: Are there racial differences among employed women? To Appear in: *Social Science & Medicine-Population Health*.
21. KC M., **Oral E.**, Straif-Bourgeois S. Rung A.L. and Peters E.S., 2020, The Effect of Area Deprivation on COVID-19 Risk in Louisiana. To Appear in: *PLOS ONE*.
22. 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*.
23. 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. *Annals of Data Science* 8(4) 733-753, doi:10.1007/s40745-020-00258-0.
24. 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.
25. 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*.
26. 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.
27. **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.
28. **Oral E.** and Danos D., 2018, Modeling Binary Regression with Stochastic Covariates. *Communication in Statistics-Theory and Methods* 48(11) 2619-2640.
29. 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, <https://doi.org/10.1186/s12874-018-0518-6>

30. 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.
31. 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.
32. 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.
33. 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.
34. **Oral E.**, 2017, Modified Maximum Likelihood Estimation in Poisson Regression. *Biometrics & Biostatistics International Journal*, 6(1): 00154, doi:10.15406/bbij.2017.06.00154.
35. **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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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>
43. **Oral E.**, 2012, Robust Estimation in Non-normal Samples with Known Detection Limits, *International Journal of Mathematics and Statistics*, 12(2), 16-37.

44. **Oral E.** and Kadilar C., 2011, Robust Ratio-type Estimators in Simple Random Sampling. *Journal of the Korean Statistical Society*, 40(4), 457-467.
45. **Oral E.** and Oral E., 2011, A Robust Alternative to the Ratio Estimator under Non-normality. *Statistics and Probability Letters*, 81(8), 930-936.
46. **Oral E.** and Kadilar C., 2011, Improved Ratio Estimators via Modified Maximum Likelihood. *Pakistan Journal of Statistics*, 27(3), 269-282.
47. 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.
48. **Oral E.**, 2006, Binary Regression with Stochastic Covariates. *Communications in Statistics-Theory and Methods*, 35(8), 1429-1447.
49. 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.
50. **Oral E.** and Gunay S., 2004, Stochastic Covariates in Binary Regression. *Hacettepe Journal of Mathematics and Statistics*, 33, 97-109.
51. 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

52. 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>.
53. **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.
54. 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.
55. **Oral E.**, 2011, Parameter Estimation in Generalized Linear Models through Modified Maximum Likelihood. *International Statistical Institute: Proc. 58th World Statistical Congress*, 4632-4637.
56. 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.
57. **Oral E.**, 2011, Non-normal Type-I Censored Samples in Logistic Regression. *In JSM Proceedings, Biometrics Section*. Alexandria, VA: American Statistical Association. 1944-1952.
58. **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.
59. **Oral E.**, 2009, Estimation in Logistic Regression Models with Bivariate Stochastic Covariates. *Bulletin of the International Statistical Institute*, 1-6.

60. **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.
61. **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.
62. **Oral E.**, 2003, Nonlinear Relationship in Binary Regression. *Bulletin of the International Statistical Institute*, 60 (2) 196-197.
63. **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.
64. **Oral E.** and Gunay S., 1998, Pitman's Measure of Closeness. *Proceedings of the Statistics Conference, Gazi University*, 69-83.

Published Abstracts (Peer Reviewed)

65. Fitzpatrick-Schmidt T., **Oral E.**, Welsh D.A., Molina P.E., Ferguson T.F. and Edwards S., 2024, Comprehensive Assessment of the Impact of Alcohol Use on Cognitive Deficits in People with HIV. *Physiology* V. 39, Issue S1 .<https://doi.org/10.1152/physiol.2024.39.S1.1552>
66. DeCastro-Vazquez J.P., Rhodes S., Hutchings J., **Oral E.**, Moreno-Walton L, 2022, Disparities in Treatment of Hepatocellular Carcinoma in Hepatitis C Positive Patients. *International Journal of Academic Medicine* , 8(4) p 321-348, Oct–Dec 2022.
67. Akpan N., Fondong M., Tusa A., DeBlieux P., Janz D., Rhodes S., **Oral E.**, Moreno-Walton L, 2022, Assessing Clinical, Demographic, and Epidemiological Variables among the First 500 COVID-19 Patients in an Urban Emergency Department. *International Journal of Academic Medicine* , 8(4) p 321-348, Oct–Dec 2022.
68. Maupin K. L., Akpan N., Rhodes S., Murphy-Lavoie H., **Oral E.**, Moreno-Walton L, 2022, Evaluation of Rashes among Patients Testing Positive for COVID-19 in an Urban Emergency Department. *International Journal of Academic Medicine* , 8(4) p 321-348, Oct–Dec 2022.
69. Rung A., Li T., **Oral E.**, Peters E.S., 2022, The Impact of Individual-level Social Capital Resources on Mental Health. *Annals of Epidemiology (ACE Abstracts)*, doi: <https://doi.org/10.1016/j.annepidem.2022.08.010>.
70. 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.
71. 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.
72. 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.
73. 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.
74. Spiers S. and **Oral E.***, 2017, Limits of Propensity Score Weighting Adjustment for Unit Nonresponse. *Annals of Epidemiology*, 27(8): 526.

75. 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.
76. 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. Rung A., Sternberger K., **Oral E.***, Nugent N., and Peters E., 2024, Maternal Exposure to Oil Spill and Children's Mental Health: Examining the Mediating Role of Resource Loss, *The 2024 World Congress of Epidemiology*, September, Cape Town, South Africa.
2. Rizvi N., Mannan M., and **Oral E.***, 2024, Robustness of Best Linear Unbiased Estimators Based on Order Statistics, *Accepted to the 2024 Joint Statistical Meetings*, August, Portland, Oregon.
3. **Oral E.***, Zou Y. and Oral E., 2024, Assessing the Robustness of Mediation Analysis in the Presence of Outliers: A Simulation Study, *Accepted to the 2024 Joint Statistical Meetings*, August, Portland, Oregon.
4. Prusisz T., Rung A., **Oral E.**, Nugent N., Smith A.K., Trapido E.J. and Peters E., 2024, Short-term Associations of Ambient Fine Particulate Matter on Mental Distress and Depression in Women of Southeastern Louisiana, *Accepted to the 36th Annual Conference of the International Society for Environmental Epidemiology*, April, Santiago, Chile.
5. Sternberger K., Rung A., Nugent N., Peters E., Trapido E. and **Oral E.***, 2023, Evaluating Children's Mental Health after the Deepwater Horizon Oil Spill, *The 2nd Annual Joseph Moerschbaeher III, PhD Graduate Research Day*, November, New Orleans, LA.
6. Ahmed A., Hanif M. and **Oral E.***, 2023, A Novel Robust Ratio Estimator Applied to Covid-19 Data. *The 2023 Joint Statistical Meetings*, August, Toronto, Canada.
7. Tiao J., Ganier S., **Oral E.**, KC M., Lim S. and DeWulf A., 2021, Geospatial Analysis of Pediatric Gunshot Wounds Presenting to a Level I Trauma Center in New Orleans, Louisiana. *27th Annual AAEM Scientific Assembly (AAEM21)*, June, St. Louis, MO.
8. **Oral E.**, 2019, Stochastic Covariates in Poisson Regression. *The 2019 Joint Statistical Meetings*, July, Denver, CO.
9. 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.
10. **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.
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. *The Society of Behavioral Medicine*, April, New Orleans, LA.
12. **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.
13. **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**).

14. Danos D. and **Oral E.***, 2015, Inference in Binary Regression with Stochastic Covariates. *2015 Lloyd Roeling UL Lafayette Mathematics Conference: Statistics*, November, Lafayette, LA.
15. 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.
16. **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.
17. 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.
18. 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**).
19. 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**).
20. 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.
21. 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.
22. **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**)
23. 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.
24. **Oral E.**, 2012, Stochastic and Nonstochastic Explanatory Variables in Generalized Linear Models. *The 2012 Joint Statistical Meetings*, August, San Diego, CA.
25. 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.
26. 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.
27. 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.
28. **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.

29. **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)**
30. **Oral E.**, 2011, Robust Estimation in Simple Random Sampling. *2011 Lloyd Roeling UL Lafayette Mathematics Conference*, November, Lafayette, LA.
31. **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.
32. 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.
33. **Oral E.**, 2011, Non-normal Type-I Censored Samples in Logistic regression. *The 2011 Joint Statistical Meetings*, August, Miami, FL.
34. 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.
35. **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.
36. **Oral E.**, 2010, Improving Efficiency of Survey Sampling Procedures through Order Statistics. *The 2010 Joint Statistical Meetings*, August, Vancouver, B.C.-Canada.
37. **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.
38. **Oral E.**, 2009, Estimation in Logistic Regression Models with Bivariate Stochastic Covariates. *The 57th Session of the International Statistical Institute*, August, Durban-South Africa.
39. **Oral E.** and Kadilar C., 2009, Modified Ratio Estimators in Simple Random Sampling. *The 2009 Joint Statistical Meetings*, August, Washington D.C.
40. **Oral E.**, 2007, Multinomial Logistic Regression Models with a Stochastic Design Variable. *The 2007 Joint Statistical Meetings*, July, Salt Lake City, UT.
41. **Oral E.**, 2006, Modified Maximum Likelihood Estimation of the Proportional Odds Model. *The 2006 Joint Statistical Meetings*, August, Seattle, WA.
42. **Oral E.**, 2006, Robust Estimation in Multinomial Logit Models. *The XXIIIrd International Biometric Conference*, July, Montreal, Quebec-Canada.
43. **Oral E.**, 2005, Parameter Estimation in Poisson Regression via Modified Maximum Likelihood Method. *The 2005 Joint Statistical Meetings*, August, Minneapolis, MN.
44. **Oral E.** and Miglioretti D. L., 2005, Multivariable Binary Regression with Stochastic Covariates. *IBS-ENAR Spring Meetings*, March, Austin, TX.
45. **Oral E.**, 2003, Nonlinear Relationship in Binary Regression. *The 54th Session of International Statistical Institute*, August, Berlin-Germany.
46. **Oral E.**, 2003, Modified Maximum Likelihood Estimators in Binary Regression. *The 2nd International Biometric Society Conference of the Eastern Mediterranean Region*, January, Antalya-Turkey.

47. **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.
48. **Oral E.** and Gunay S., 1998, Pitman's Measure of Closeness. *Gazi University Statistics Conference*, October, Ankara-Turkey.

Posters at Professional Meetings

49. Rung A., Li T., **Oral E.**, Nugent N. and , Peters E., 2024, Social Capital and Mental Health: The Role of Access to Social Network Resource, *The 2024 World Congress of Epidemiology*, September, Cape Town, South Africa.
50. Peters E., **Oral E.**, Prusisz T., and Rung A., 2024, Examining Disparities and Protective Factors in COVID-19 Pandemic-Related Mental Health Outcomes: A Louisiana-Based Study, *The 2024 World Congress of Epidemiology*, September, Cape Town, South Africa.
51. Bam A., Mohamed M., and **Oral E.***, 2024, Investigating the Role of Polycyclic Aromatic Hydrocarbons (PAHs) on Cancer in Louisiana, *2024 LSUHSC School of Public Health Delta Omega Honors Day*, April, New Orleans, LA.
52. Bam A., Mohamed M., and **Oral E.***, 2024, Investigating the Role of Polycyclic Aromatic Hydrocarbons (PAHs) on Cancer in Louisiana, *2024 LSUHSC School of Public Health Delta Omega Honors Day*, April, New Orleans, LA.
53. Esmeralda J., Al-Mamun Md A., and **Oral E.***, 2024, Implementing Binary Regression in R: An Application in Environmental Data, *2024 LSUHSC School of Public Health Delta Omega Honors Day*, April, New Orleans, LA.
54. Mannan M., Rizvi N., and **Oral E.***, 2024, Comparing Robust Estimators with an Application to Environmental Data, *2024 LSUHSC School of Public Health Delta Omega Honors Day*, April, New Orleans, LA.
55. Sternberger K., Rung A., Nugent N., Peters E., Trapido E. and **Oral E.***, 2024, Using Structural Equation Modeling to Assess Children's Mental Health after the Deepwater Horizon Oil Spill, *Conference on Statistical Practice*, February, New Orleans, LA.
56. Trosclair T. and **Oral E.***, 2023, Extension of Ardah and Oral's Two-stage RRT to the Polychotomous Case. *The 2023 Joint Statistical Meetings*, August, Toronto, Canada.
57. Wolfe A., Bornstein K., Dixon-Gleaves A., Prestenburgd E., Miro L., **Oral E.**, Janz D., Hurley B., and Detiege P., 2023, Disparities in Sedation after Rapid Sequence Intubation. *The ATS 2023 International Conference*, May, Washington, DC.
58. Doguet K., Maginnis C., Selva J., **Oral E.**, and Vaitaiti V., 2023, Comparing initial staging of head and neck cancer at time of diagnosis in incarcerated vs. non incarcerated individuals at a tertiary care center. *LSU School of Medicine Dept. of Otolaryngology Head and Neck Surgery The 26th Annual Resident Research and Alumni Day*, June, New Orleans, LA.
59. Sobiesk J.L., Dunham M., Evans A. and **Oral E.**, 2023, Establishment of the efficacy of the bedside Safe Airway Application (SAA), a digital bedside signage model. *LSU School of Medicine Dept. of Otolaryngology Head and Neck Surgery The 26th Annual Resident Research and Alumni Day*, June, New Orleans, LA.
60. Guidry H.J., Kraft A., Hickham L., Lemoine J., Kahane J., Arriaga M., Mehta R., **Oral E.**, Maxwell A., 2023, Temporal Bone Trauma: Facial Nerve and Audiologic Outcomes and Follow Up. *LSU School of Medicine Dept. of Otolaryngology Head and Neck Surgery The 26th Annual Resident Research and Alumni Day*, June, New Orleans, LA.

61. Fitzpatrick-Schmidt, T., **Oral E.**, Welsh, D., Simon, L., Molina, P., Edwards, S., Ferguson, T., 2023, Cardiometabolic Risk Factors, Alcohol Use, and Cognitive Decline in People Living with HIV. *Alcohol-Induced End Organ Diseases Gordon Research Conference* Ventura, CA. March 2023.
62. Fitzpatrick-Schmidt T., **Oral E.**, Welsh D., Simon L., Molina P., Edwards S. and Ferguson T., 2022, Cardiometabolic risk factors, alcohol use, and cognition in people living with HIV. *Inaugural Dr. Joseph Moerschbaecher, III Graduate Research Day 2022*, November, New Orleans, LA.
63. Rung A., Li T., **Oral E.**, Peters E.S., 2022, The impact of individual-level social capital resources on mental health. *2022 Annual Meeting of the American College of Epidemiology*, September, Scottsdale, AZ (**1 st Place Award**).
64. Clement ME., Beckford J., Lovett A., LeGrand S., Mayer KH., Hightow-Weidman L., Kissinger P., **Oral E.**, Naggie S., 2022, STI Incidence and Care Discontinuation Among PrEP Using Black Men Who Have Sex with Men in New Orleans, Louisiana. *AIDS 2022, The 24th International Aids Conference*, July, Montreal, CA.
65. Fox T., Gare G., Lowery P.B., Zamora K., Tran H.V., Smith D.L., Brito-Encarnacion F., Danrad R., Krishnan A., **Oral E.**, Rodriguez R., Galeotti J.M., DeBoisblanc B.P., 2022, Correlation of human and artificial intelligence scoring of lung ultrasounds with radiologic comparators in hospitalized patients. *2022 Medical Research Day*, January, LSUHSC, New Orleans (**Best Presentation Award**).
66. **Oral E***, Mazumder H., Grunblatt S. and Zeng C., 2021, A Simulation Study to Compare the Bias and Efficiency of the Sample Mean Obtained from Simple Random and Convenience Samples. *The 2021 Joint Statistical Meetings*, August, Virtual Conference.
67. Fox J. and **Oral E***, 2021, A Comparison of Indirect Questioning Techniques for Binary Responses. *The 2021 Joint Statistical Meetings*, August, Virtual Conference.
68. Akpan N., Fondong M., Tusa A., Trosclair T., Rhodes S., DeBlieux P., Janz D., **Oral E.**, Moreno-Walton L., 2021, Assessing Clinical Variables Among the First 500 COVID-19 Patients in an Urban Emergency Department. *The 2021 Medical Student Research Virtual Poster Symposium*, July, LSUHSC, New Orleans.
69. Anderson J., Rhodes S., Butts C., Kaban N., **Oral E.**, Moreno-Walton L., 2021, Accuracy of Emergency Medicine Resident Performed Point-of-Care Ultrasound. *The 2021 Medical Student Research Virtual Poster Symposium*, July, LSUHSC, New Orleans.
70. Benes G., Roth M., Fontenot B., Rhodes S., **Oral E.**, Wheeler C., Fox J., Moreno-Walton L., 2021, Adequacy of Advance Directives in Patients Admitted to the Intensive Care Unit. *The 2021 Medical Student Research Virtual Poster Symposium*, July, LSUHSC, New Orleans.
71. DeCastro-Vazquez J., Rhodes S., Hutchings J., **Oral E.**, Moreno-Walton L., 2021, Disparities in Treatment of Hepatocellular Carcinoma in Hepatitis C Positive Patients. *The 2021 Medical Student Research Virtual Poster Symposium*, July, LSUHSC, New Orleans.
72. Maupin K., Akpan N., Rhodes S., Murphy-Lavoie H., **Oral E.**, Moreno-Walton L., 2021, Evaluation of Rashes in Patients Diagnosed with COVID-19. *The 2021 Medical Student Research Virtual Poster Symposium*, July, LSUHSC, New Orleans.
73. Fox J., Zhu X., Jawla, M. and **Oral E***, 2021, Effects of Unit Nonresponse on Estimating the Population Mean. *LSUHSC School of Public Health 2021 Delta Omega Honors Day Poster Session*, April, New Orleans, LA (Online).
74. Sarkar I., Shrestha P., Rosenbaum, C. and **Oral E***, 2021, Comparing Different Sampling

Schemes to Estimate the Population Mean: A Simulation Study. *LSUHSC School of Public Health 2021 Delta Omega Honors Day Poster Session*, April, New Orleans, LA (Online).

75. Mazumder H., Grunblatt S., Zeng, C. and **Oral E***, 2021, A Simulation Study to Compare the Bias and Efficiency of Sample Mean Obtained from Probability and Nonprobability Samples. *LSUHSC School of Public Health 2021 Delta Omega Honors Day Poster Session*, April, New Orleans, LA (Online).
76. Fox J. and **Oral E***, 2020, Direct Questioning of Sensitive Topics in Public Health Studies: A Simulation Study. *The 13th International Symposium on Biomathematics and Ecology Education and Research, e-BEER*, November, Normal, IL (Online).
77. 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)**
78. 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)**
79. 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.
80. 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.
81. 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.
82. 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.
83. 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.
84. 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.
85. 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)**.
86. 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.
87. 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.

88. 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.
89. 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.
90. 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.
91. 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.
92. 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.
93. Zabaleta J., **Oral E.**, Kepper M., Griffiths L., Skizim M., Cornwell K., Scribner R., Miele L. and Sothorn M., 2018, Inflammatory and Epigenetic Changes Following Diet versus Exercise in African American Female Youth. *The Obesity Society, Obesity Week 2018*, November, Nashville, TN.
94. Nuss H., **Oral E.**, Griffiths L., Duhon A., Zabaleta J., Scribner R., Miele L. and Sothorn M., 2018, The Association Between Breastfeeding and Insulin Resistance in Prepubertal Children. *The Obesity Society, Obesity Week 2018*, November, Nashville, TN.
95. 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 Sothorn 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.
96. Duhon A., Sothorn 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.
97. 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.
98. Spiers S. and **Oral E.***, 2017, Effects of Link Misspecification in Propensity-score Weighting Adjustment. *The 2017 Joint Statistical Meetings*, August, Baltimore, MD.
99. 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.

100. **Oral E.** and Danos D., 2016, Link Misspecification in Binary Regression. *The 2016 International Indian Statistical Association Conference on Statistics*, August, Corvallis, OR.
101. 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.
102. Danos D. and **Oral E.***, 2015, Noncanonical Links in Binary Regression. *LSUHSC-SOM Graduate Research Day 2015*, November, New Orleans, LA.
103. 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.
104. 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.
105. 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.
106. 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.
107. 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.
108. 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.
109. 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.
110. 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.
111. 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.
112. 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.
113. 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.

114. 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.
115. 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.
116. 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.
117. 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.
118. 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.
119. 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.
120. 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.
121. 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.
122. 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.
123. 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

124. **Oral E.**, 2022, Biostatistics: A Gentle Introduction. *LSU ENT Didactic Day*, July 5, New Orleans, LA.
125. **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.
126. **Oral E.**, 2017, Working as a Statistician in the Big Easy. *Department of Business Administration, TED University*, December 18, Ankara-Turkey.

127. **Oral E.**, 2016, Recent Advances in Robust Estimation and Survey Sampling. *Department of Data Science, University of Mississippi Medical Center*, April 18, Jackson, MS.
128. **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.
129. **Oral E.**, 2016, Statistics in the Crescent City. *Department of Environmental Toxicology, Texas Tech University*, January 19, Lubbock, TX.
130. **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.
131. **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.
132. **Oral E.**, 2010, Robust Estimation in Logistic Regression via Modified Maximum Likelihood Methodology. *Stanley S. Scott Cancer Center*, March 12, New Orleans, LA.
133. **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

- Certificate, The Center for Clinical and Translational Science (CCTS) Case Studies in Mentoring, CCTS Training Academy, March 2024.
- Service Award, In recognition and appreciation of services provided to the Faculty Assembly of School of Public Health, LSUHSC, 2022-2023.
- Service Award, In recognition and appreciation of services provided to the Faculty Assembly of School of Public Health, LSUHSC, 2021-2022.
- Nominated for Full Membership in Sigma Xi, The Scientific Research Honor Society, 2021.
- Service Award, In recognition and appreciation of services provided to the Faculty Assembly of School of Public Health, LSUHSC, 2020-2021.
- 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

Poisson Regression with Stochastic Covariates for Environmental Data Modeling

PI: Evrim Oral, 8/1/2024- 11/30/2024

CCTS's Statistical and Analytical Methods Development Funding

NCATS Research of the NIH under award number UM1TR004771

Role: Principal Investigator, Effort: 5%

Claiborne Reborn: "In-powering" Treme through a Multi-Generational Campaign of Citizen Science, Cultural Preservation, and Deliberative Community Engagement to Redress Interstate-10 Inequities

PI: Adrienne Katner, 8/1/2024- Present

US Environmental Protection Agency (EPA)

Role: Biostatistician, Effort: 10%

Characterizing Hazards, Exposures, Disease Mechanisms, and Health Disparities Associated with Traffic-Related Air Pollutants Along New Orleans' Claiborne Avenue Expressway

PI: Adrienne Katner, 8/1/2024- Present

LSU Health Science Center-Wide Intramural Research Program (WIRP) Role: Co-Investigator, Effort: 10%

Comprehensive Alcohol-HIV/AIDS Research Center (CARC)

PI: Patricia Molina, 7/1/2022- Present

Role: Biostatistician, Effort: 10%

Tanzania AIDS Malignancies Training and Research Program (TAMTRIP)

PI: Charles Wood, 4/1/2022 - 4/1/2027

Fogarty International Center at the U.S. National Institutes of Health

Role: Biostatistician, Effort: variable

IntiMate Partner violence during the covid-19 pandemic in Louisiana (IMPERIAL) Study

PI: Evrim Oral, 5/1/2021 - Present

LSUHSC School of Public Health Project

Role: Principal Investigator

LSUHSC, School of Nursing, 7/1/2022 - Present

Role: Statistical Consultant, Effort: 10%

LSUHSC, School of Medicine, Section of Emergency Medicine, 1/1/2018 - Present

Role: Statistical Consultant, Effort: 15%

Completed Research

Building Strong Foundations: A Needs Assessment of Developmental Monitoring Practices in Southeast Louisiana's Early Head Start Programs

PI: Leslie Lopez, 11/1/2023- 11/30/2024

CDC Act Early/AAP Special Projects

Role: Biostatistician, Effort: 5%

LSUHSC, School of Medicine, Department of Otolaryngology, 7/1/2022 - 11/1/2023

Role: Statistical Consultant, Effort: 10%

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%)

mHealth Peer Support to Reduce Rates of STIs in Black MSM PrEP Users

PI: Meredith Clement, 9/2019 - 12/2021

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, 12/31/2019 - 12/31/2021

Academy of Pediatric Physical Therapists (APPT) Mentored Grants

Role: Statistical Consultant/Biostatistician (Amount: 1500 \$ \approx 1%)

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

Longitudinal effects of maternal high fat diet and early life deprivation on anhedonia in rats
PI: Elizabeth Avegno
Submitted to NIH (UO1), 2024
Role: Biostatistician

Not-funded Applications (Last 5 years)

Evaluating Emission Effects on Emergency Visits: Temporal and Spatial Perspectives
PI: Evrim Oral
Submitted to Basic and Advanced Clinical Science Research Collaboration in Action Program (CAP) 2024 Our Lady of the Lake Health and LSU, 2024
Role: PI

Caregiver Burden Following Telehealth Compared to Enhanced-Integrated On-site Care
PI: Melinda Sothern
Submitted to Patient-Centered Outcomes Research Institute (PCORI), 2023
Role: Biostatistician

Investigation of Perceptual Rankings of Pathological Voice Qualities Towards Validation of Objective Correlates
PI: Takeshi Ikuma
Submitted to NIH (R21), 2023
Role: Biostatistician

Genomics, mutational load and immune response in African American and Non-Hispanic White individuals with colorectal cancer
PI: Jovanny Zabaleta
Submitted to NIH (R01), 2022
Role: Biostatistician

Career Paths of Emergency Medicine Physicians and Gender Representation
PI: Lisa Moreno-Walton
Submitted to NIH (PAR-20-103), 2021
Role: Biostatistician

Molecular determinants of Luminal B breast cancer in Latinas: roles of ancestry and obesity
PI: Jovanny Zabaleta
Re-submitted to NIH (R01), 2021
Role: Biostatistician

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

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

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

PROFESSIONAL ACTIVITIES

Affiliated Institutions

Member of the panel of foreign reviewers/experts in Statistics for evaluation of instructors' dossiers and Ph.D. theses: Department of Mathematics and Statistics, International Islamic University Islamabad, Pakistan, 2020 - Present

Statistical Consultant: LSUHSC, Department of Otolaryngology, New Orleans, LA, 2022 - Present

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

Chair of the PhD Comprehensive Exam Committee: LSUHSC-SPH, Biostatistics Program, New Orleans, LA, 2024

Chair of the Assistant/Associate Search Committee: LSUHSC-SPH, Biostatistics Program, New Orleans, LA, 2023

Chair of the Biostatistics Instructor Search Committee: LSUHSC-SPH, Biostatistics Program, New Orleans, LA, 2022

PhD Comprehensive Exam Committee Member: LSUHSC-SPH, Biostatistics Program, New Orleans, LA, 2009 - Present

Biostatistics Colloquium Coordinator: LSUHSC-SPH, Biostatistics Program, New Orleans, LA, Fall 2018 - Spring 2019

Biostatistics Colloquium 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 Colloquium Coordinator: Department of Statistics, METU, Ankara-Turkey, Fall 2006 - Spring 2007

University Service

Faculty Assembly President: LSUHSC-SPH, New Orleans, LA, 2024 - Present (Elected).

Center for Innovation and Excellence Steering Committee Member: LSUHSC, New Orleans, LA, 2023-Present (Elected).

Faculty Senator: LSUHSC, New Orleans, LA, 2017 - 2023.

LSUHSC Campus Disaster Relief Committee Member: LSUHSC, New Orleans, LA, 2022 - Present.

Appointments, Promotions and Tenure Committee Member: LSUHSC-SPH, New Orleans, LA, 2021 - Present (Elected).

LSUHSC Faculty Senate Moodle Committee Member: LSUHSC, New Orleans, LA, 2022 - 2023 (Sub-committee).

LSUHSC Faculty Senate Dress Code-PM Ad-hoc Committee Member: LSUHSC, New Orleans, LA, 2020 - 2022.

LSUHSC Faculty Senate COVID-19 Guideline Policies Ad-hoc Committee Member: LSUHSC, New Orleans, LA, 2020 - 2023 (Sub-committee).

LSUHSC Faculty Senate Shared Leave Pool Policies Ad-hoc Committee Member: LSUHSC, New Orleans, LA, 2020 - 2023 (Sub-committee).

LSUHSC Chancellor's Excellence Awards Committee: LSUHSC, New Orleans, LA, 2021-2022.

Co-chair of the LSUHSC Multi-cultural Colleague Network Group: LSUHSC, New Orleans, LA, 2021 - 2022.

Co-chair of the LSUHSC Women Colleague Network Group: LSUHSC, New Orleans, LA, 2021 - 2022.

LSUHSC Faculty Annual Review System Committee Member: LSUHSC, New Orleans, LA, 2019 - 2021 (Elected).

Grievance Committee Member: LSUHSC-SPH, New Orleans, LA, 2020 - 2022 (Appointed).

Chair of the Bylaws, Nominations, Elections Committee: LSUHSC-SPH, New Orleans, LA, 2020 - 2021 (Elected).

Bylaws, Nominations, Elections Committee Member: LSUHSC-SPH, New Orleans, LA, 2019 - 2021 (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

Editorial Board Member: *Scientific Reports*, 2024 - Present

Associate Editor: *Scandinavian Journal of Statistics*, 2022 - Present

Review Editor: *Statistical Genetics and Methodology* (specialty section of *Frontiers in Genetics*), 2022 - Present

Topic Editor: *Mathematics*, 2020 - Present

Associate Editor: *Biometrics and Biostatistics International Journal*, 2014 - Present

Panel Member: 2022 Congressionally Directed Medical Research Programs (CDMRP), Traumatic Brain Injury and Psychological Health Research Program Research Program (TBIPHRP), 2022

External grant reviewer: Call for proposals 'Research projects in social and human sciences, epidemiology and public health -SHSESP-2021' funded by *The French National Cancer Institute*, 2021

President: Louisiana Chapter of the American Statistical Association, 2023 - 2024

Vice President: Louisiana Chapter of the American Statistical Association, 2022-2023

Secretary/Treasurer: Louisiana Chapter of the American Statistical Association, 2021 - 2022

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: Implementation of a preoperative cannabis screening tool to identify patients at risk for adverse perioperative outcomes: A knowledge to action project. Investigator: Maggie Nguyen, School of Nursing, LSUHSC, New Orleans, LA, 2023.
- Project/Grant Name: Continuity of Tracheostomy Care Safety between in-patient and out-patient settings: Rationale for implementation of a Pediatric Tracheostomy Remote Home Monitoring Program (PTRHMP). Investigator: Adele Evans, LSU Department of Otolaryngology - Head and Neck Surgery, LSUHSC, New Orleans, LA, 2023.
- Project/Grant Name: Disparities in Analgesia and Sedation after RSI. Investigators: Amy Wolfe, Kasha Bornstein, Apre Dixon-Gleaves, Eric Prestenburgd Luka Miro, David Janz, Bruce Hurley and Pierre Detiege, Department of Medicine, LSUHSC, New Orleans, LA, 2023.
- Project/Grant Name: A Malignant Hyperthermia Simulation to Improve Emergency Readiness among Anesthesia Providers. Investigator: Madeline Seals, School of Nursing, LSUHSC, New Orleans, LA, 2023.
- Project/Grant Name: Assessment of Post-Traumatic Stress Disorder Among Emergency Medical Services Workers: A Survey Study Within an Urban Medical Service. Investigator: Lisa Moreno-Walton, MD, MS, FACEP, FAAEM, LSUHSC, School of Medicine, New Orleans, LA, 2022-2023.
- 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 Cardi-

ology, 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 Phonovibrograph. 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)

Louisiana Public Health Association (LPHA)