BRODERICK O. OLUYEDE

WORK ADDRESS:

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EDUCATION:

Ph.D., Mathematics (Concentration: Statistics), Bowling Green State University, 1991
M.A., Mathematics, Bowling Green State University, 1987
M.S., Applied Statistics and Operations Research, Bowling Green State University, 1985
B.S., Statistics and Mathematics, University of Ilorin, 1981

PROFESSIONAL EXPERIENCE:

2009-Present	Professor of Mathematics and Statistics Department of Mathematical Sciences Georgia Southern University, GA
Spring 2015	Visiting Professor of Statistics Department of Mathematical and Computational Sciences Botswana International University of Science and Technology
2004-2009	Associate Professor of Mathematics and Statistics Department of Mathematical Sciences Georgia Southern University, GA
2000-2004	Assistant Professor of Mathematics and Statistics, Tenured Department of Mathematical Sciences Georgia Southern University, GA
1999-2000	Visiting Assistant Professor of Statistics Department of Statistics Oklahoma State University, OK
1995-1999	Assistant Professor of Statistics Department of Statistics The University of Georgia, GA

1991-1995	Temporary Assistant Professor of Mathematics and Statistics Department of Mathematics and Computer Science Georgia State University, GA
1990-1991	Lecturer Department of Mathematics and Statistics Bowling Green State University, OH
1985-1990	Graduate Assistant/Fellow Department of Mathematics and Statistics Bowling Green State University, OH

ADMINITRATIVE APPOINTMENTS:

2005-Present	Director, Statistical Consulting Unit (SCU) Department of Mathematical Sciences Georgia Southern University, GA

RESEARCH INTERESTS:

Categorical Data Analysis, Order Restricted Inference, Clinical Trials, Reliability and Survival Analysis, Multivariate Statistical Analysis and Stochastic Dependence, Stochastic and Mathematical Inequalities, Mathematical Finance, Stochastic Convergence/Statistical Computation, Distribution/Large Sample Theory, Weighted Distributions, Normed Approximations of Weighted and Parent Distributions, Biostatistics and Consulting in Health Sciences, Stochastic Differential Equation, Statistical Learning Theory and Information Theory.

REFEREED PUBLICATIONS:

Research Papers

1. The Log-logistic Weibull Distribution with Application to Lifetime Data, (with S. Foya, G. Warahena-Liyanage and S. Huang), **Austrian Journal of Statistics, Vol. 45, 43-69, 2016.**

2. The McDonald Log-logistic Distribution with Applications to Lifetime and Pricing Data, (with S. Huang), **Journal of Probability and Statistical Sciences, Vol. 14, No. 2, 123-139, 2016.**

3. Dagum-Poisson Distribution: Model, Properties and Application, (with G. Motsewabagale, S. Huang, G. Warahena-Liyanage, and M. Pararai), **Electronic Journal of Applied Statistical Sciences (EJASA), Vol. 09, Issue 01, 169-197, April 2016.**

4. Gamma-Exponentiated Modified Weibull Distribution with Applications to Lifetime Data, (with S. Pu, Y. Qiu and D. Linder), **Journal of Data Science, Vol. 14, Issue 4, 585-614, 2016.**

5. Beta Linear Failure Rate Distribution with Applications, (with I. Elbatal and S. Huang), **Journal of Data Science, Vol. 14, 317-346, 2016.**

6. The beta Lindley-Poisson Distribution with Applications (with G. Warahena-Liyanage, and M. Pararai), **Journal of Statistical and Econometric Methods, Vol. 5, No. 4, 1-37, 2016**.

7. A New Compound Class of Log-logistic Weibull-Poisson Distribution: Model, Properties and Applications (with G. Warahena-Liyanage and M. Pararai), **Journal of Statistical Computations and Simulations, Vol. 00, No. 00, 00-00, 2016.**

8. A New Class of Generalized Log-logistic Weibull Distribution: Theory, Properties and Applications, (with G. Basele, S. Huang and B. Makubate), **Journal of Probability and Statistical Sciences, Vol. 14, No. 2, 171-201, 2016.**

9. A New class of Generalized Power Lindley Distribution with Applications to Lifetime Data, (with T. Yang and B. Makubate), **Asian Journal of Mathematics and Applications, Vol. 2016, Article ID ama00279, 1-34, 2016.**

10. Exponentiated Power Lindley Poisson Distribution: Properties and Applications, (with M. Pararai and G. Warahena-Liyanage), **Communications in Statistics: Theory and Methods, Vol. 00, Issue 00, 00-00, 2016.**

11. Weighted generalizations of the generalized Rayleigh Distribution with Applications, (with O. Odubote and X. Shi), **Journal of Probability and Statistical Sciences, Vol. 13(2), 197-215, Aug. 2015.**

12. An Extended Lindley Poisson Distribution, (with M. Pararai and G. Warahena-Liyanage), **Journal of Mathematics and Statistical Sciences, Volume 2015, 167-198, 2015.**

13. Kumaraswamy Lindley-Poisson Distribution: Theory and Applications, (with M. Pararai and G. Warahena-Liyanage), **Asian Journal of Mathematics and Applications, Volume 2015, Article ID ama0261, 30 pages.**

14. A New Class of Generalized Modified Weibull Distribution with Applications, (with S. Huang and T. Yang), **Austrian Journal of Statistics, Vol. 44, 43-68, 2015.**

15. Inequalities and Approximations of Weighted Distribution by Lindley Reliability Measures and the Lindley-Cox Model with Applications, (with M. Okwuokenye

and K. Peace), **International Journal of Statistics and Probability, Vol. 4, No. 2, 61-72, 2015.**

16.   Estimation in the Exponentiated Kumaraswamy Dagum Distribution with Censored samples, (with S. Huang), **Electronic Journal of Applied Statistical Sciences, Vol. 8, Issue 1, 122-135, April 2015.**

17.   Theoretical Properties of the Weighted Generalized Gamma and Related Distributions, (with H. Priyashardani), **Probability in the Engineering and Informational Sciences, Vol. 39, Issue 3, 421-432, 2015.**

18.   The Log-Generalized Lindley-Weibull Distribution with Applications, (with F. Mutiso and S. Huang), **Journal of Data Science, Vol. 13, No. 2, 2015.**

19.   A New Class of Generalized Lindley Distribution with Applications (with T. Yang), **Journal of Statistical Computation and Simulation, Vol. 85, No. 10, 2072-2100, 2015**.

20.   A Generalized Class of Kumaraswamy Lindley Distribution with Applications to Lifetime Data, (with T. Yang and B. Omolo), **Journal of Computations and Modeling, Vol. 5, No. 1, 27-70, 2015.**

21.   A New Class of Generalized Power Lindley Distribution with Applications, (with G. Warahena-Liyanage and M. Pararai), **Theoretical Mathematics and Applications, Vol. 5, No. 1, 53-96, 2015.**

22.   A New Class of Generalized Dagum Distribution with Applications to Income and Lifetime Data (with S. Huang and M. Pararai), **Journal of Statistical and Econometric Methods, Vol. 3, No. 2, 125-151, 2014**.

23.   Exponentiated Kumaraswamy-Dagum Distribution with Applications to Income and Lifetime Data (with S. Huang), **Journal of Statistical Distributions and Applications, Vol. 1, No 8, 2014**.

24.   Theoretical Properties of the Weighted Feller-Pareto and Related Distributions, (with O. Odubote), **Asian Journal of Mathematics and Applications, Vol. 2014, Article ID ama0173, 1-12, 2014**.

25.   Structural Equation Modeling of Multivariate Gamma Density (with N. Diawara and R. A. R. King), **Afrika Matematika, Vol. 25, No. 2, 345-356, 2014**.

26.   Generalizations of the Inverse Weibull and Related Distributions with Applications, (with T. Yang), **Electronic Journal of Applied Statistical Analysis, Vol. 7, No. 1, 94-116, 2014.**

27. Weighted Inverse Weibull Distribution: Statistical Properties and Applications, (with V. Sherina), **Theoretical Mathematics & Applications, Vol. 4, No. 2, 1-30, 2014.**

28. Weighted Dagum and Related Distributions, (with Y. Ye), **Afrika Matematika, Vol. 25, No. 2, 345-356, 2014**.

29. The Mc-Dagum Distribution and Its Statistical Properties with Applications (with S. Rajasooriya), **Asian Journal of Mathematics and Applications, Vol. 2013, Article ID ama0085, 1-16, 2013.**

30. Theoretical Properties of the Length-Biased Inverse Weibull Distribution, (with J. Kersey), **Involve - A Journal of Mathematics, Vol. 5, No. 4, 379-391, 2012.**

31. Theoretical Properties of the Weighted Generalized Rayleigh and Related Distributions, (with X. Shi and M. Pararai), **Theoretical Mathematics and Applications, Vol. 2, No. 2, 45-62, 2012.**

32. Estimation of Parameters in Weighted Generalized Beta Distribution of the Second Kind, (with Y. Ye and M. Pararai), **Journal of Statistical and Econometric Methods, Vol. 1, No. 1, 1-12, 2012.**

33. Weighted Generalized Beta Distribution of the Second Kind, (with Y. Ye and M. Pararai), **Journal of Statistical and Econometric Methods, Vol. 1, No. 1, 13-31, 2012.**

34. Exponential Dominance and Uncertainty for Weighted Residual Life Measures, **Probability in the Engineering and Informational Sciences, 25, 251–263, 2011.**

35. On Weighted Distributions and Mean Advantage Over Inferiors Functions, (with N. Diawara), **International Journal of Contemporary Mathematical Sciences, Vol. 6, No. 5, 229 – 239, 2011**.

36. On Proximity of Weighted and Exponential Distributions, **International Journal of Reliability, Quality and Safety Engineering, Vol. 17, No. 1, pp 1-14, 2010.**

37. On Fourier Parabolic and Wave Equation, (with M. Terbeche), **International Journal of Mathematical Analysis, Vol. 3, No. 25, 1221-1228, 2009.**

38. Establishment of Weak Conditions for Darboux-Goursat-Beudon Theorem, (with M. Terbeche), **International Journal of Mathematical Analysis, Vol. 3, No. 25, 1229-1237, 2009.**

39. On Some Differential Equations, (with M. Terbeche), **International Journal of Mathematical Analysis, Vol. 3, No. 11, 505-526, 2009.**

40.   Order Restricted Inference for Risk Difference and Discordant Probability, (with M. Pararai), **JP Journal of Biostatistics, Vol. 2, Issue 1, 45-55, 2008.**

41.   Inequalities and Exponential Approximations for Residual Life Reliability Functions, (with M. Pararai), **Applied Mathematical Sciences, Vol. 2, No. 39, 1919-1928, 2008.**

42.   A Note on Extreme Bernoulli and Dependent Families of Bivariate Distributions, (with M. Pararai), **International Journal of Contemporary Mathematical Sciences, Vol. 3, No. 23, 1103-1112, 2008.**

43.   A Note on Relations for Reliability Measures in Zero-Adjusted Models, (with M. Pararai), **Applied Mathematical Sciences, Vol. 1, No. 56, 2789-2798, 2007.**

44.   On Weighted Covariance and Vitality Orderings with Applications to the Exponential Family, (with M. Terbeche), **Advances and Applications in Statistics, Vol. 7, No. 2, 175-192, 2007.**

45.   Bounds and Comparisons for Weighted Renewal-Type Integral Equations, **Applied Mathematical Sciences, Vol. 1, No. 36, 1759-1771, 2007.**

46.   On Energy and Expected Uncertainty Measures in Weighted Distributions, **International Mathematical Forum,** (with M. Terbeche), **Vol. 2, No. 20, 947-956, 2007.**

47.   On Bounds and Approximating Weighted Distributions by Exponential Distributions, **Probability in the Engineering and Informational Sciences, Vol. 20, No. 3, 517-528, 2006.**

48.   A Note on Probability Weighted Moment Inequalities for Reliability Measures. **Journal of Inequalities in Pure and Applied Mathematics, Vol. 7, Issue 1, Article 28, 2006.**

49.   Some General Notions of Stochastic Orderings for Weighted Reliability and Uncertainty Measures with Applications, **International Mathematical Forum, Vol. 1, No. 2, 51-60, 2006.**

50.   Sequential and Fixed Designs for Estimation with Comparisons and Applications, (with M. Terbeche and A. Barbour), **Statistics and Operations Research Transactions, Vol. 29, No. 2, 217-234, 2005.**

51.   Two Stage Design for Estimation of Mean Difference in the Exponential Family, (with M. Terbeche), **Advances and Applications in Statistics, Vol. 5(3), 281-295, 2005.**

52. On Inequalities and Comparisons of the Cauchy, Gauss and Logistic Distributions, **Applied Mathematics Letters, Vol. 17, 77-82, 2004.**

53. On Local Dependence and Stochastic Inequalities with Applications to Contingency Tables, **Journal of Applied Mathematics and Computation, Vol. 151, 801-813, 2004.**

54. Fixed and Sequential Designs for Estimation in the Exponential Family with Comparisons and Applications to the Binomial Proportions Using Gamma Priors, (with M. Terbeche), **Journal of Computational and Applied Mathematics, Vol. 154, Issue 1, 175-182, 2003.**

55. On Stochastic Inequalities and Dependence Orderings, **Journal of Applied Mathematics and Computation, Vol. 146, 601-610, 2003.**

56. Inequalities and Bounds for Kernel Length-Biased Density Estimation, **Journal of Applied Mathematics and Computation, Vol. 135, 541-551, 2003.**

57. Some Inequalities and Bounds for Weighted Reliability Measures, **Journal of Inequalities in Pure and Applied Mathematics, Vol. 3, Issue 4, Article 60, 1-12, 2002.**

58. On Stochastic Inequalities and Comparisons of Reliability Measures for Weighted Distributions, (with E. O. George), **Mathematical Problems in Engineering-Theory, Method and Applications, Vol. 8, No. 1, 1-13, 2002.**

59. On Inequalities and Partial Orderings for Weighted Reliability Measures, **Journal of Inequalities and Applications, Vol. 7, No. 5, 647-661, 2002.**

60. Some General Notions of Variability Ordering with Applications, **Stochastic Analysis and Applications, Vol. 19, No. 5, 841-856, 2001.**

61. On Moment Inequalities and Stochastic Ordering for Weighted Reliability Measures, (with M. Terbeche), **International Journal of Mathematics and Mathematical Sciences, Vol. 28, No. 6, 321-330, 2001.**

62. On Stochastic Comparisons of Energy Functions with Applications, **International Journal of Mathematics and Mathematical Sciences, Vol. 28, No. 4, 201-209, 2001.**

63. Stochastic Inequalities for Availability and Reliability Measures, **Journal of Fundamental Science and Applications, Series A-Pure and Applied Mathematics, Vol. 9, 71-80, 2000.**

64. On Some Length Biased Inequalities for Reliability Measures, **Journal of Inequalities and Applications, Vol. 5, 447-466, 2000.**

65. On Inequalities and Selection of Experiments for Length Biased Distributions, **Probability in the Engineering and Informational Sciences, Vol. 13, No. 2, 169-185, 1999.**

66. On the Estimation of Odds Ratios under Order Restrictions with Incomplete Data, **Computing Science and Statistics, 30, 444-449, 1998.**

67. Limiting Forms for Some Discrete Models, **InterStat, No. 1, 1-11, 1997.**

68. A Comparative Study of Tests of Positive Association in Ordinal Discrete Data, **Computing Science and Statistics, 16, 565-572, 1997.**

69. Dependence Functions and Frailties, **Biometrical Journal, Vol. 36, No. 6, 1-16, 1996.**

70. A Modified Chi-square Test of Independence against a Class of Ordered Alternatives in an R X C Contingency Table, **The Canadian Journal of Statistics, Vol. 22, No. 1, 75-87, 1994.**

71. A Family of Bivariate Binomial Distribution Generated by Extreme Bivariate Bernoulli Distributions, **Communications in Statistics, Vol. 23, No. 5, 1531-1547, 1994.**

72. Tests of Equality of Several binomial Populations against an Ordered Restricted Alternative and Model Selection for One- Dimensional Multinomials, **Biometrical Journal, Vol. 36, No. 1, 17-32, 1994.**

73. Stochastic Ordering, **The College Mathematics Journal, No 534, 1994.**

74. A Modified Chi-square Test for Testing the Equality of Two Multinomial Populations Against an Order Restricted Alternative, **Communications in Statistics, Vol. 22, No. 4, 1133-1155, 1993.**

75. Positive Dependence of Bivariate Random Variables, **American Mathematical Monthly, Vol. 100, No. 7, 689, 1993.**

PROCEEDINGS:

76. On Analyzing Dichotomous Data under Order Restrictions, (with R. Paterson). **Proceedings of the American Statistical Association, Biometric Section, 334-339, 1996.**

77. Estimation and Testing of Multinomial Parameters under Order Restrictions. **Proceedings of American Statistical Association, Section on Quality and Productivity, 267-280, 1994.**

78.   On Testing for and Against Order Restrictions Including Hazard and Continuation Ratio Probability Ordering. **IMS Bulletin Abstract, pp212, 1994.**

79.   Tests for Equality of Several Proportions and Model Selection for One-dimensional Multinomials. **Proceedings of American Statistical Association, Social Statistics Section, 671-676, 1993.**

MANUSCRIPTS SUBMITTED:

1.   The Gamma-Weibull-G Family of Distributions with Applications, (with S. Pu, Y. Qiu and B. Makubate), 2016.

2.   The Gamma-Generalized Inverse Weibull Distribution with Applications, (with V. Sherina), 2016.

3.   A New Class of Generalized Log-logistic Modified Weibull Distribution: Theory, Properties and Applications, (with G. Basele and S. Huang), 2016.

4.   A New Class of Distributions for Survival and Lifetime Data Analysis: Theory and Applications, 2016.

5.   A New Model for Lifetime Data: The Exponentiated Burr XII-Weibull Distribution, Properties and Applications, 2016.

6.   A New Compound Model: the Dagum-Power Series Distribution with Application to Lifetime Data, 2016.

7.   Marshall-Olkin Log-logistic Extended Weibull Distribution with Applications to Lifetime Data, (with L. Lepetu, B. Makubate, S. Foya and P. Mdlongwa), 2016.

RESEARCH IN PROGRESS:

1.   A New Class of Burr XII-Weibull-Poisson Distribution with Applications, (with P. Mdlongwa and B. Makubate).

2.   A Generalized Extended Weibull Distribution for Lifetime Data Analysis.

3.   Generalized New Modified Weibull Distribution with Applications.

4.   Dependence and Variability Orderings with Applications to Life Distributions.

5.   A Note on Exponential Approximations for Weighted Equilibrium Distributions.

6.   The Lomax Weibull-Poisson Distribution with Applications, (with P. Mdlongwa).

7. The Log-logistic Modified Weibull Distribution with Application to Lifetime Data, (with H. Bindele and S. Huang), 2015.

PRESENTATION AT PROFESSIONAL MEETINGS:

A) International

1. "A New class of Distributions for Survival and lifetime Data Analysis", **The 58th Annual Conference of the South African Statistical Association, Capetown, South Africa,** November 30, 2016.

2. "The Burr XII-Weibull Poisson Distribution: Properties and Applications", **International Conference on Statistical Distributions and Applications (ICOSDA-2016),** October 15-16, 2016, Niagara Falls, Canada.

3. "Weighted Dagum and Related Distributions with Applications to Lifetime Data", (with B. Kimitei), **International Conference on Statistical Distributions and Applications (ICOSDA), Mount Pleasant, Michigan, USA,** October 10-13, 2013.

4. "Estimation of Weighted Generalized Beta Distribution of the Second Kind with applications to United States Family Income Data, (with Y. Ye and M. Pararai), **Joint Statistical Meetings, Montreal, Canada,** August 5, 2013**.**

5. "Proximity of Weighted and Lindley Models with Estimation from Censored Samples" **ENAR 2013 Spring Meeting, Orlando, FL,** March 10-13, 2013.

6. "Characterization and Dispersive Ordering of the Cauchy, Gauss and Logistics Laws", **Joint Mathematics Meetings, San Francisco, CA,** January 13-16, 2010.

7. "On Length-Biased Exponential Approximations and Current Duration Sampling", **ENAR/IBS Spring Meeting, San Antonio, Texas,** March 15-18, 2009.

8. "On Mean Advantage Over Inferiors Ordering and Weighted Distributions", **Joint Mathematics Meetings, Washington, D. C.,** January 5-8, 2009.

9. "A Note on Length-Biased and Current duration Sampling", Blackwell-Tapia Conference, **Statistical and Applied Mathematical Sciences Institute (SAMSI),** November 14-15, 2008.

10. "Inference for Multinomial Parameters and Odds Ratios under Order Restrictions", **ENAR/IBS Spring Meeting, Arlington, Virginia,** March 16-19, 2008.

11. "Length-Biased and Current Duration Sampling", **Invited Session, AMS Special Session on Biomathematical Modeling II, Joint Mathematics Meetings, San Diego, California,** January 6-9, 2008.

12. "Exponential Approximations for Length Biased and Weighted Residual Life Reliability Functions", **International Conference on Advances in Interdisciplinary Statistics and Combinatorics, University of North Carolina at Greensboro, North Carolina, Session 2e,** October 12-14, 2007.

13. "Selection of Experiments for Weighted Distributions", **International Biometric Society/Eastern North American Region Spring Meeting, Atlanta, Georgia,** March 11-14, 2007.

14. "On the Exponential Approximation of Weighted and Transformed Distributions with Applications", **Twelfth International Conference on Statistics, Combinatorics, Mathematics and Applications, Auburn University, Alabama,** December 2 – 4, 2005.

15. "Limiting Distributions Generated by Extreme Bernoulli Distributions", **The Fourth Congress of Nonlinear Analyst (WCNA), Orlando, Florida,** June 30 to July 7, 2004.

16. "On Sequential and Fixed Designs for Estimation with Comparisons and Applications", **International Biometric Society, Eastern North American Region (IBS-ENAR),** Hyatt Regency Crystal City, Arlington, Virginia, March 17 to March 20, 2002.

17. "On Moment Inequalities and Stochastic Ordering for Weighted Reliability Measures", **Joint Statistical Meetings,** New York, August 11 to August 15, 2002.

18. "On the Estimation of Reliability Measures under Length Biased Sampling", **Joint Statistical Meetings,** Atlanta Marriott Marquis Hotel, Atlanta, GA, August 5 to August 9, 2001.

19. "On Length Biased Inequalities and Reliability Estimation", **International Conference on Applied Statistics,** Rider University, New Jersey, May 22-23, 1999.

20. "Inequalities for Length Biased Distributions with Monotone Hazard Functions", **International Conference in Reliability and Survival Analysis,** Northern Illinois University, Illinois, May 21-24, 1998.

21. "On the Estimation of Odds Ratios under Order Restrictions with Incomplete Data", **30th Symposium on Interface: Dimension Reduction, Computational**

Complexity, and Information, Computer Science and Statistics, St. Paul, Minnesota, May 13-16, 1998.

22. "A Note on Statistical Inference via Informational Energy", **American Statistical Association/Institute of Mathematical Statistics/Statistical Society of Canada Annual Meetings,** Dallas, Texas, August 9-13, 1998.

23. "A Comparative Study of Tests of Positive Association in Ordinal Discrete Data", **International Association for Statistical Computing, Second World Conference,** Pasadena, California, February 1997.

24. "On Analyzing Dichotomous Data under Order Restrictions", **American Statistical Association Meetings,** Atlanta, Georgia, 1996.

25. "On Testing for and against Order Restrictions including Hazard and Continuation Ratio Probability Ordering", **Third World Congress of Bernoulli Society and 57th Annual Meeting of Institute of Mathematical Statistics,** June 1994.

26. "A Family of Bivariate Binomial Distribution Generated by Extreme Bivariate Bernoulli Distributions", **American Statistical Association Annual Meeting,** August 1992.

27. "A Modified Chi-square Test for Testing the Equality of Two Multinomial Populations Against an Order Restricted Alternative", **American Public Health Association Annual Meeting,** November 1992.

B) Regional/Sectional

28. "Local Dependence, Stochastic Inequalities and Orderings of Distributions with Applications", **The 31st Annual Southeastern-Atlantic Regional Conference on Differential Equations-SEARCDE-31",** Georgia Southern University, Statesboro, September 30 - October 1, 2011.

29. **"Characterization and Dispersive Ordering of the Cauchy, Gauss and Logistic Laws",** The 29th Annual Southeastern-Atlantic regional Conference on Differential Equations-SEARCDE-29", **Mercer University, Macon Campus, October 16-17, 2009.**

30. "Exponential Approximations of Equilibrium and Residual Life Distribution Functions**", The 33st Society of the Industrial and Applied Mathematics-Southeast-Atlantic Section Meeting**, University of South Carolina, Columbia, SC, April 4 to May 5, 2009.

31. "Exponential Approximations of Equilibrium and Residual Life Distribution Functions**", The 31st Society of the Industrial and Applied Mathematics-**

Southeast-Atlantic Section Meeting, University of Memphis, Memphis, TN, May 4 to May 5, 2007.

32. "On Fixed and Random Designs for Estimation with Comparisons", **Joint Meeting of Mathematical Association of America and Society of Industrial and Applied Mathematics,** Auburn University, Auburn, AL, March 31 to April 1, 2006.

33. "Bounds and Inequalities for Length-Biased Distributions with Monotone Reliability Functions", **Southeastern Sectional Meeting of the Mathematical Association of America**, Raleigh, NC, March 2005.

34. "Some General Results on Variability Orderings via Probability Weighted Moments and Vitality Measures**", Society of the Industrial and Applied Mathematics- Southeast-Atlantic Section Meeting**, Charleston, SC, March 2005.

35. "A Note on Informational Energy and Stochastic convergence for Weighted Functions with Applications", **SIAM Southeast-Atlantic Section and SIAM-SEAS Student Conference,** East Tennessee State University, Johnson City, Tennessee, April 2 to April 3, 2004.

36. "On Inequalities and Bounds for Weighted Renewal-Type Integrals with Applications" **SIAM Southeast-Atlantic Section and MAA Southeastern Section Joint Regional Meeting,** Clemson University, Clemson, South Carolina, March 21 to March 22, 2003.

37. "On Stochastic Comparisons and Inference via Informational Energy", **Special Session**, **The 26th Annual Meeting of the Society for Industrial and Applied Mathematics, South Eastern Atlantic Section (SIAM-SEAS),** Western Carolina University, April 19 to April 20, 2002.

38. "On Inequalities, Characterization and Comparisons of the Cauchy, Gauss and Logistics Distributions", **American Mathematical Society Sectional Meeting, Georgia Institute of Technology, Atlanta, Georgia,** March 8 to March 10, 2002.

39. "On Inequalities and Estimation of Reliability Measures Under Length Biased Sampling", **Special Session**, **The 25th Annual Meeting of the Society for Industrial and Applied Mathematics, South Eastern Atlantic Section (SIAM-SEAS),** Coastal Carolina University, March 16, 2001.

40. "Some General Notions of Variability Ordering with Applications", **Fourth Annual Southeastern Probability Days,** Georgia Institute of Technology, Georgia, May 7-8, 1999.

41. "Estimation and Testing of Odd-Ratios with Incomplete Data", **Western North American Regional, American Statistical Association and Institute of Mathematical Statistics Regional Meeting,** Stanford University, California, June 1995.

42. "Estimation and Testing of Multinomial Parameters Under Order Restrictions", **American Statistical Association Winter Conference,** January 1994.

43. "A Test of Independence against a Class of Ordered Alternatives in an R X C Contingency Table", **Eastern North American Regional Spring Conference,** April 1994.

COLLOQUIUM AND OTHER TALKS:

A) Research Level

1. **"**A New Compound Class of Log-logistic Weibull Poisson Distribution: Properties and Applications", Probability and Statistics Seminar, Department of Mathematical Sciences, Georgia Southern University, September 2015.

2. **"**Exponentiated Kumaraswamy Dagum Distribution and Censored Samples with Applications, Seminar, Department of Mathematics and Computational Sciences, Botswana International University of Science and Technology, Palapye, Botswana, April 2015.

3. **"**Exponential Dominance and Uncertainty for Weighted Residual Life Measures, Probability and Statistics Seminar, Department of Mathematical Sciences, Georgia Southern University, February 4, 2011.

4. "Order Restricted Inference for Multinomial Parameters", Colloquium, Department of Mathematics and Statistics, Old Dominion University, Norfolk, Virginia, March 20, 2008.

5. "Proximity of Weighted and Exponential Distributions", Colloquium, Department of Mathematics, Elizabeth City State University, Elizabeth City, North Carolina, March 19, 2008.

6. "Length Biased and Current Duration Sampling", Mathematical Sciences Colloquium Series, Department of Mathematical Sciences, Georgia Southern University, November 5, 2007.

7. "On Dependence and Asymptotic Comparisons for Tests of Association", Probability and Statistics Seminar, Department of Mathematical Sciences, Georgia Southern University, March 2, 2007.

8.   "On the Approximation of Transformed Life Distributions with Applications II", Probability and Statistics Seminar, Department of Mathematical Sciences, Georgia Southern University, November 4, 2005.

9.   "On the Approximation of Transformed Life Distributions with Applications I", Probability and Statistics Seminar, Department of Mathematical Sciences, Georgia Southern University, October 28, 2005.

10. "Modified Chi-Square Test for a Class of Ordered Alternatives", Department of Mathematical Sciences, Georgia Southern University, October 2004.

11. "Inference under Order Restrictions", Department of Mathematics and Computer Science, Georgia Southern University, November 2002.

12. "Inference for Ordered Categorical Response Data", Department of Mathematics and Computer Science, Georgia Southern University, March 2001.

13. "Length Biased Inequalities and Stochastic Comparison of Ageing and Reliability Measures", Department of Mathematics and Computer Science, Georgia Southern University, September 2000.

14. "On Length Biased Inequalities and Exponential Reliability Estimation", Department of Statistics, Oklahoma State University, October 1999.

15. "An Overview of Categorical Data Analysis", College of Education, University of Georgia, June 1998.

16. "Estimation and Goodness of Fit for the Multidimensional Exponential Distribution", Department of Statistics, University of Georgia, April 1996.

17. "A Family of Bivariate Binomial Distribution Generated by Extreme Bivariate Bernoulli Distributions", Department of Statistics, University of South Carolina, February 1995.

18. "Estimation under Order Restrictions", Department of Mathematics and Computer Science, Georgia State University, February 1994.

B) Discussant

Southern Regional Conference on Statistics (SRCOS). Summer Research Conference in Statistics, Navarre Beach, Florida, June 1998.

C) Chair of Scientific Program Sessions

1.   Session on compounding and copulas: generalized extended Distributions, TI 17, International Conference on Statistical Distributions and Applications (ICOSDA-2016), October 15-16, 2016, Niagara Falls, Canada.

2.   Concurrent Session SoTL Commons, Conference, Session 15.3, A comparison of Delivery Methods for Distance Learning Mathematics Courses, A conference for the Scholarship of Teaching and Learning, Coastal Georgia Center, Georgia Southern University, March   28, 2014.

3.   Session on Applications of Distributions II, S5, International Conference on Statistical Distributions and Applications (ICOSDA), Mount Pleasant, Michigan, October 11, 2013.

4.   Session on Distributions and Inference II, S15, International Conference on Statistical Distributions and Applications (ICOSDA), Mount Pleasant, Michigan, October 12, 2013.

5.   Session on Semiparametric and Nonparametric Methods for Survival Analysis, Eastern North American Region (ENAR) of the International Biometric Society (IBS), Orlando, FL, March 12, 2013.

6.   Session on Probability and Statistics: The 31st Annual Southeastern-Atlantic Regional Conference on Differential Equations-SEARCDE-31, Georgia Southern University, Statesboro, September 30- October 1, 2011.

7.   AMS Session on Probability and Statistics IV, Joint Mathematics Meetings, San Francisco, CA, January 16, 2010.

8.   Concurrent Session 15.1: Conference on the Scholarship of Teaching and Learning: A Story Time for Mathematics, Georgia Southern University, Georgia, March 12, 2010.

9.   Concurrent Session 16.1: Conference on the Scholarship of Teaching and Learning: Faculty-Student Differences in Perception of Group Work, Georgia Southern University, Georgia, March 12, 2010.

10.   Session 2A: (SEB 143) The 29th Annual Southeastern-Atlantic regional Conference on Differential Equations-SEARCDE-29, Mercer University, Macon Campus, October 16-17, 2009.

11.   Session 4A: (SEB 143) The 29th Annual Southeastern-Atlantic regional Conference on Differential Equations-SEARCDE-29, Mercer University, Macon Campus, October 16-17, 2009.

12.   Concurrent Session 1.3: Conference on the Scholarship of Teaching and Learning: Using Thin-Aloud to Examine Pre-Service Elementary Teachers', Georgia Southern University, Georgia, November 1-2, 2009.

13.   Concurrent Session 4.1: Microteaching for Pre-service Teachers in a Mathematics Teacher Education Program, Georgia Southern University, Georgia, November 1-2, 2009.

14.   Concurrent Session 13.3: Caring Professor-Student Relationships-Making our Students Feel Known, Georgia Southern University, Georgia, November 1-2, 2009.

15.   Session Chair: No. 787, World Congress for Nonlinear Analysts (WCNA), Hyatt Grand Cypress Resort, Orlando Florida, July 7, 2008.

16.   Contributed Session 10: Design of Experiments: Spring Research Conference on Statistics for Industry and Technology, Georgia Institute of Technology, Atlanta, Georgia, May 21, 2008.

17.   Session 35: Contributed Papers on General Methods: Categorical and Survival Data, International Biometric Society/Eastern North American Region Spring Meeting, Atlanta, Georgia, March 11-14, 2007.

18.   Concurrent Session 9: Conference on the Scholarship of Teaching and Learning: Measuring Learning in an Honors Interdisciplinary Course on Video Games, Georgia Southern University, Georgia, November 1-2, 2007.

D) Judge for Scientific Organizations and Program Sessions:

Reviewer and Judge for the Annual Biomedical Research Conference for Minority Students (ABRCMS), undergraduate, post baccalaureate and graduate students abstracts, Nashville, Tennessee, November 13-16, 2013.

Reviewer and Judge for the Annual Biomedical Research Conference for Minority Students (ABRCMS), undergraduate, post baccalaureate and graduate students abstracts, San Jose, California, November 7-10, 2012.

Reviewer and Judge for the Annual Biomedical Research Conference for Minority Students (ABRCMS), undergraduate, post baccalaureate, graduate students sessions, and poster sessions, St. Louis, MO, November 9-13, 2011.

Reviewer and Judge for the Annual Biomedical Research Conference for Minority Students (ABRCMS) poster sessions, Charlotte, NC, November 10-13, 2010.

Judge for the Annual Society for the Advancement of Chicanos and Native Americans in sciences (SACNAS) Conference poster sessions, Anaheim, CA, September 20-October 3, 2010.

RESEARCH GRANTS:

Georgia Southern University

Grant to support Center for Nursing Research, Georgia Southern University, 2014-2016 (25% of academic salary plus support for graduate student in the Mathematical Sciences Department (James Dow)-over $20,000.

Grant to participate in Beyond Bioinformatics Opening Workshop at SAMSI, RTP, NC, September 8-September 12, 2014, (over $800).

Grant to participate Workshop on Statistical and Computational Methods in Social Sciences, SAMSI, RTP, NC, August 18- August 22, 2013, (over $800).

Grant to participate Workshop on Statistical and Computational Methodology for Massive Datasets, SAMSI, RTP, NC, September 9-September 12, 2012, (over $600).

Grant to participate Workshop on Computational Advertising, SAMSI, RTP, NC, August 6-August 17, 2012, (over $1700).

Grant to attend the Sixth International Workshop on Statistical Analysis of Neural Data (SAND6), University of Pittsburgh, PA, May 31-Jine 2, 2012, (over $600).

Grant to attend the Institute of Mathematics and Its Applications (IMA) Workshop on The Mathematics of the New Financial Systems, University of Minnesota, MN, May 16- May 19, 2012, (over $1000).

Grant to attend the Statistical and Applied Mathematical Sciences Institute (SAMSI) Workshop on Models with Complex and Uncertain Domains, Research Triangle Park, NC, March 21-March 24, 2012, (over $600).

Grant to attend the Institute of Mathematics and Its Applications (IMA) Workshop on Large Data Sets in Medical Informatics, University of Minnesota, MN, November 14-November 18, 2011, (over $1000).

Grant to participation in the AMP Reproducible Research: Tools and Strategies for Scientific Computing, University of British Columbia, Canada, July 13 - July 17, 2011, (over $1100).

Several Travel Grants, Department of Mathematical Sciences, Georgia Southern University, 2000-present.

Travel grant to SAND5: Statistical Analysis of Neuronal Data, University of Pittsburgh, PA, ($300.00), May 22 –May 23, 2010.

Grant to attend the Summer Program on Semi parametric Bayesian Inference Workshop: Applications in Pharmacokinetics and Pharmacodynamics, Statistical and Applied Mathematical Sciences Institute, (SAMSI), Research Triangle Park, NC, July 12-23, 2010, (Over $1200).

Grant to attend Mathematics Institutes Modern Mathematics Workshop, Institute for Mathematics and its Applications (IMA), September 28-30, 2010, Anaheim, CA, ($988).

Grant to attend the Workshop on Analysis of Object Data, Statistical and Applied Mathematical Sciences Institute, (SAMSI), Research Triangle Park, NC, September 12-15, 2010, (Over $500).

Travel grant to serve as Reviewer and Judge for the Annual Biomedical Research Conference for Minority students (ABRCMS), on November 10-13, 2010 in Charlotte, NC, (Over $1200).

Travel Grant to Active Learning in STEM Disciplines Workshop, Georgia Institute of Technology, GA, February 19, 2010 ($200).

Grant for 2008 Blackwell-Tapia Conference from SAMSI, Research Triangle, North Carolina, November 13-16, 2008.

Publication Grant, Faculty Research Publication Fund, 2006, 2007, 2008.
Grant for 2006 Blackwell-Tapia Conference from IMA, University of Minnesota, Minneapolis, Minnesota, November 3-5, 2006.

Foundation Grant (for Statistical Consulting Unit), Department of Mathematical Sciences, 2005.

Foundation Grant, Department of Mathematical Sciences, 2004, 2007.

Travel Grants, Department of Mathematics and Computer Science, 2001, 2002.

McNair Summer Research Institute Mentor Grant, Department of Mathematics and Computer Science, 2001.

Foundation Grant, Department of Mathematics and Computer Science, 2001.

The University of Georgia

Equipment Grant, Department of Statistics, $10,000, 1995.

Travel Grants, Department of Statistics, (1995, 1996, 1997, 1998).

Comparison Procedures and the Analysis of Categorical Response Data. NSF. 1997-2000. Not Funded.

Georgia State University

Positive Dependence and Tail Orderings. Summer Faculty Research Grant, 1992.

One-Sided Multiple Comparisons of Response Rates. Summer Faculty Research Grant, 1993.

Travel Grants, (1993, 1994, 1995) and McNair Summer Research Institute Mentor Grant, 1993.

COURSES TAUGHT:

Statistics

Introduction to Statistics I (Undergraduate)
Introduction to Statistics II (Undergraduate)
Elementary Statistics (Undergraduate)
Engineering Statistics (Undergraduate)
Matrix Analysis in Statistics (Undergraduate)
Probability (Undergraduate)
Statistical Methods I (Undergraduate/Graduate)
Non-parametric Statistics (Undergraduate/Graduate)
Mathematical Statistics I (Graduate)
Mathematical Statistics II (Graduate)
Statistical Methods II (Graduate)
Categorical Data Analysis (Graduate)
Regression Analysis (Graduate)
Design of Experiments (Graduate)
Analysis of Discrete Data (Graduate)
Applied Multivariate Statistics (Graduate)
Multivariate Statistical Analysis (Graduate)
Advanced Statistical Applications I (Graduate)
Applied Regression Analysis (Graduate)

Mathematics

College Algebra (Undergraduate)
Discrete Mathematics (Undergraduate)
Calculus I (Undergraduate)
Calculus II (Undergraduate)
Advanced Calculus (Undergraduate)

Independent Studies

Georgia Southern University:

Topic: Generalized Modified Weibull-Poisson Distribution with Applications to Lifetime Data (Research-Generalizations of Weibull-Type Distributions, Graduate).

Topic: Exponentiated Modified Weibull Distribution with Applications to Lifetime Data (Research-Generalizations of Weibull-Type Distributions, Graduate).

Topic: Generalized Inverse Weibull Distribution with Applications to Lifetime Data (Research-Generalizations of Inverse Weibull-Type Distributions, Graduate).

Topic: Generalized Burr Distribution with Applications to Income and Lifetime Data (Research-Generalizations of Burr-Type Distributions, Graduate).

Topic: Exponentiated Kumaraswamy-Dagum with Applications to Income and Lifetime Data (Research-Generalizations of Dagum-Type Distributions, Graduate).

Topic: Generalized Lindley and Related Distributions with Applications to Lifetime Data (Research-Generalizations of Exponentiated Lindley -Type Distributions, Graduate).

Topic: Generalized Modified Weibull and Related Distributions with Applications (Research-Generalizations of Modified Weibull-Type Distributions, Graduate).

Topic: Mc-Dagum and Related Distributions with Applications (Research-Generalizations of Weighted Beta and Dagum-Type Distributions, Graduate).

Topic: Burr III and Related Distributions with Applications (Research-Generalizations of Burr III and Income-Type Distributions, Graduate).

Topic: Analysis of Ordered Multinomial Data (Research, Graduate).

Topic: Weighted Distributions and Related Functions (Research-Weighted Weibull Distribution, Graduate).

Topic: Weighted Distributions and Related Functions (Research-Inverse Weighted Weibull Distribution, Graduate).

Topic: Statistical Properties of Weighted Generalized Beta Distribution of Second Kind and Related Weighted Distributions (Research, Graduate).

Topic: Order Restricted Statistical Inference (Undergraduate).

Georgia State University:

Design of Experiments (Graduate).

NEW COURSES DEVELOPED:

Georgia Southern University

Analysis of Discrete Data (Graduate, STAT 7135), initiated 2009.

The University of Georgia

Created a sequence of advance courses (with Dr. Jaxk Reeves):
Advanced Statistical Applications I (Graduate), initiated 1997.
Advanced Statistical Applications II (Graduate), initiated 1997.
Matrix Analysis in Statistics (Undergraduate), initiated 1997.

INSTITUTIONAL SERVICE:

Georgia Southern University

University-Wide:

Director, Statistical Consulting Unit (2009 – present).
Statistical Consulting Unit (SCU), Coordinator (2005 - 2009).
Faculty Grievance Committee (2011 – 2013).
Faculty Senate (2005 - 2008).
COST Post-Tenure Committee (2007-2009).
Faculty Roles and Reward Task Force Committee (2002 - 2005).
COST Academic Excellence Committee (2004 - 2006).
Department Chair Search Committee (2001 - 2002, 2003 – 2004, 2016 - 2017).

College:

COST Post-Tenure (2007-2008).
COST Academic Excellence (2004 - 2006), (2011 – 2013).
Department Chair Search Committee (2001 – 2002, 2003 - 2004).

Departmental:

>   **Chair:** Tenure and Promotion Committee (2010 – 2012, 2015-present).
>   Tenure and Promotion Committee (2013 – 2014).
>   Post-Tenure Review Committee (2010 – 2014).
>   Statistics Committee (2002 - 2006).
>   Peer-Review Committee (2003 - 2005).
>   Statistics Search Committee (2004 – 2005, 2016 - 2017).
>   Advisory Council (2016 – present).
>
>   Advisory Council (2009 – present).
>   Graduate Coordinating Committee (2009 – 2011).
>   Statistics Search Committee (2009 – 2014).
>   Peer Review Committee (2009 – 2011).
>   Mentor to Oluseyi Odubote (2013 - 2014).
>   Mentor to Dr. Solomon Osifodunrin (2008 - 2009).
>   Search Committee (2005 - 2006).
>   Tenure and Promotion Committee (2004 – 2006, 2007-2009).
>   Post Tenure Review Committee (2005 - 2007).
>   Mentor to Dr. Mavis Pararai (2005 - 2006).
>   Statistics Committee (2000 - Present).
>   Graduate Committee (2003 - 2004).
>   Grants and Scholarship Committee (2003 - 2005).
>   Recruiting Committee (2003 - 2005).
>   Colloquia and Seminars Committee (2000 - 2002).
>   Statistics Faculty Search Committee (2001 – 2002).
>   Faculty Evaluations Committee (2001 - 2002**).**

The University of Georgia

>   **Chair:** Statistics Equivalency Examination Committee (1997 - 1998).
>
>   Graduate Faculty Committee (1995 - 1999).
>   Recruiting Committee (1998 - 1999).
>   Statistics Equivalency Examination Committee (1995 - 1997).
>   STA 621-622 Committee (1996 - 1998).

Georgia State University

>   Statistics Committee (1991 - 1995).
>   Grade Appeal Committee (1994).
>   Library Committee (1993 - 1995).
>   Colloquium Committee (1993 - 1995).
>   Executive Committee (1994 - 1995).

DIRECTION OF THESES AND DISSERTATIONS:

Georgia Southern University

Chair

Topic: Generalized Burr XII Weibull Distribution with Applications
Sarah Ayoku, College of Science and Mathematics, 2016-2017

Topic: Generalized Modified Weibull Poisson Distribution with Applications to
Lifetime Data
Toussaint Towa, College of Science and Mathematics, 2014-2015

Topic: Gamma-Exponentiated New Modified Weibull Distribution with
Applications to Lifetime Data
Shusen Pu, College of Science and Mathematics, 2013-2014

Topic: Exponentiated Kumaraswamy-Dagum-Weibull Distribution with
Applications to Income and Lifetime Data
Shujiao Huang, College of Science and Mathematics, 2013-2014

Topic: A New Class of Generalized Lindley Distribution with Applications to
Lifetime Data
Tiantian Yang, College of Science and Mathematics, 2013-2014

Topic: Family of Weighted Proportional Inverse Weibull Distribution with
Applications
Valeriia Sherina, College of Science and Mathematics, 2013-2014

Topic: Income Inequality Measures and Statistical Properties of Weighted Burr-
Type Distributions with Applications
Meznah Al Buqami, College of Science and Mathematics, 2013-2014

Topic: Family of Weighted Feller-Pareto, Kumaraswamy-Generalized Pareto and
Related Distributions with Applications
Oluseyi Odubote, College of Science and Mathematics, 2012-2013

Topic: Family of Generalized Lindley-Weibull Distribution and Related
Distributions with Applications
Fedelis Mutiso, College of Science and Mathematics, 2012-2013

Topic: Family of Generalized Dagum Distribution and Applications
Benson Kimitei, College of Science and Mathematics, 2012-2013

Topic: Family of Generalized Mc-Dagum Distributions with Applications
Sasith Rajasooriya, College of Science and Mathematics, 2012-2013

Topic: Kumaraswamy-Generalized Inverse Weibull Distribution and Its Properties
Tao Yang, College of Science and Mathematics, 2011-2012

Topic: Statistical Properties of the Weighted Generalized Beta Distributions of Second Kind with Applications.
Yuan Ye, College of Science and Mathematics, 2011-2012

Topic: Weighted Generalized Gamma Distribution and Related Models.
Hewa Priyadarshani, College of Science and Technology, 2011-2012

Topic: A Family of Generalized Rayleigh Models with Applications,
Xueheng Shi, College of Science and Technology, 2010-2011

Topic: Weighted Weibull Distribution and Related Functions
Roman Ryan, College of Science and Technology, 2009-2010

Topic: Properties of Weighted Inverse - Weibull Distribution and Related Functions
Jing Kersey, College of Science and Technology, 2009-2010

Topic: Analysis of Binomial and Multinomial Data under Order Restrictions
Jeff Campbell, College of Science and Technology, 2009-2010

Membership of Thesis and Dissertation Committees

Served on the thesis committee for:
Jing Sun, College of Science and Mathematics, 2014 – 2015

Served on the thesis committee for:
Anna Khamitova, College of Science and Mathematics, 2013 - 2014

Served on the thesis committee for:
Brittany Waters, College of Science and Mathematics, 2013 - 2014

Served on the thesis committee for:
Tony Yaacoub, College of Science and Mathematics, 2013 - 2014

Served on the thesis committee for:
Yiran Zhang, College of Science and Mathematics, 2013 – 2014

Served on the thesis committee for:
Yuxiang Li, College of Science and Technology, 2012 - 2013

Served on the Dr.P.H. Dissertation committee for:
Macaulay Okwuokenye, Jiann-Ping Hsu College of Public Health, 2011 – 2013

Served on the thesis committee for:
Wenmin Wang, College of Science and Technology, 2011 - 2012

Served on the thesis committee for:
Kellen Parham, College of Science and Technology, 2009 – 2010

Served on the thesis committee for:
Fengjiao Hu, College of Science and Technology, 2009 - 2010

Served on the thesis committee for:
Heather King, College of Science and Technology, 2009 - 2010

Served on the thesis committee for:
Jesse King, College of Science and Technology, 2007 - 2008

Served on the thesis committee for:
Martin Dunbar, College of Science and Technology, 2006 - 2007

Served on the thesis committee for:
Mina Vora, College of Science and Technology, 2003 – 2004

Thesis and Dissertation External Reviewer

Reviewer for PhD Dissertation, University of Zimbabwe, Fall 2015.
Dissertation: A Generalized Multilevel Linear Model for Likert Responses
Student: Charles Chimedza

Reviewed and Served on the Doctor of Public health (DrPH) Dissertation
committee for:
Macaulay Okwuokenye, Jiann-Ping Hsu College of Public Health, Georgia
Southern University, 2011 - 2013

Supervisor of Research Symposium

Supervisor for the Phi Kappa Research Symposium.
Research Project: Comparisons of Sequences of Binomial Populations with
Applications
Student: Marlow Lemons, 2000 - 2001

Supervisor and Mentor to the Ronald McNair Program
Research Project: Ordered Analysis of Grade Distributions
Student: Marlow Lemons, 2000 - 2001

Advisement

Advisor for Pre-computer Science major students 2001 – 2004

University of Georgia

Served on the following dissertation committees:

Laureen Lowman: College of Education, 1997 - 1999
Michael Patrick Watson: College of Business Administration, 1997 - 1998
David Smith: College of Arts and Science, 1998 - 1999
Rodolfo Ramirez-Valverde: Animal and Dairy Science, 1998 - 1999

Georgia State University

Supervisor and Mentor to the Ronald McNair Program
Students: Karen Smith and Gani Lawal, 1992 - 1994

Served on the comprehensive and thesis committees of the following students:

Computer Science Comprehensive Examinations:
Student: Shou (Roy) Zou, 1994

Thesis: Comparisons of Some Tests on a Single Change in Independent Copies of Short Sequences.
Student: Jiang Jin, 1994 - 1995

Thesis: Negative Dependence.
Student: Theresa J. Murphy, 1994 – 1995

Comprehensive Examination Committee:
Student: Ms Neva Latty, 1994 – 1995

REFEREE FOR:

Journal of Statistical Distributions and Applications (4)
Applied Mathematics and Information Sciences (1)
Journal of Multivariate Analysis (4)
Journal of Statistical Computation and Simulation (9)
Scandinavian Journal of Statistics (1)
Communications in Statistics (7)
Computational Statistics and Data Analysis (4)
Computational Statistics (1)
The American Statistician (1)
Journal of Nonparametric Statistics (1)

Questio (Spanish Journal devoted to Statistics, Operations Research and Biometry) (1)
Neural, Parallel and Scientific Computation (1)
The Open Operational Research Journal (1)
Scientific Journals International (2)
Mathematical Reviews (over 20)
Involve (1)
Columbian Journal of Statistics (1)
Statistical Methodology (1)
Pakistan Journal of Statistics and Operations Research (5)
Journal of Testing and Evaluation (1)
Applied Mathematics and Computation (1)
Statistics and Its Interface (1)
Electronic Journal of Applied Statistical Analysis (2)

REVIEWER FOR:

Mathematical Reviews
Society for Industrial and Applied Mathematics (SIAM)
McGraw-Hill/Irwin
Pearson/Prentice Hall
Brooks/Cole - Thomson Learning
Elsevier Publishing Company

EDITORIAL BOARD MEMBERSHIP:

Journal of Statistical Distribution and Applications
Applied Mathematical Sciences
The Open Operational Research Journal

NSF RESEARCH CONFERENCE:

CBMS Regional Research Conference on Generalized Linear Mixed Models and Related Topics, University of Florida, June 8 – 12, 1999.

PROFESSIONAL TRAINING/WORKSHOP:

Invited to attend and chair sessions on Distributions and Inference at the International Conference of Statistical Distributions and Applications, Mount Pleasant, Michigan, October 10-13, 2013.

Invited to attend and participate in the Workshop on Statistical and Computational Methods in Social Sciences, SAMSI, RTP, NC, August 18-August 22, 2013.

Participated in the 2nd Workshop on Biostatistics and Bioinformatics: Celebrating the International Year of Statistics, Georgia State University, Atlanta, GA, May 10-12, 2013.

Invited to attend the Statistical and Applied Mathematical Sciences Institute (SAMSI) Massive Data opening Workshop, Research Triangle Park, NC, September 9-September 12, 2012.

Invited to attend the Sixth International Workshop on Statistical Analysis of Neural Data (SAND6), University of Pittsburgh, PA, May 31-Jine 2, 2012.

Invited to attend the Institute of Mathematics and Its Applications (IMA) Workshop on The Mathematics of the New Financial Systems, University of Minnesota, MN, May 16- May 19, 2012.

Invited to attend the Statistical and Applied Mathematical Sciences Institute (SAMSI) Workshop on Models with Complex and Uncertain Domains, Research Triangle Park, NC, March 21-March 24, 2012.

Invited to attend the Institute of Mathematics and Its Applications (IMA) Workshop on Large Data Sets in Medical Informatics, university of Minnesota, November 14-November 18, 2011.

Invited participation in the AMP Reproducible Research: Tools and Strategies for Scientific Computing, University of British Columbia, Canada, July 13-July17, 2011.

Invited to the summer program on Semi parametric Bayesian Inference Workshop: Applications in Pharmacokinetics and Pharmacodynamics, Statistical and Applied Mathematical Sciences Institute, (SAMSI), Research Triangle Park, NC, July 12-23, 2010.

Invited to attend Mathematics Institutes Modern Mathematics Workshop, Institute for Mathematics and its Applications (IMA), September 28-30, 2010.

Invited to attend the Workshop on Analysis of Object Data, Statistical and Applied Mathematical Sciences Institute, (SAMSI), Research Triangle Park, NC, September 12-15, 2010.

Frontiers in Quantitative Methods for Cancer Research
Theme: Statistical Issues in Translational Oncology, Medical College of Georgia, August 7, 2009.

MyStatLab Statistics Forum Invitation Forum Pearson Education, Pearson Education, Boston, MA, February 27 –March 1, 2009.

BIOINFORMATICS: Unraveling the Secrets of Life, Armstrong Atlantic State University, Savannah, GA, November 14-15, 2000.

Modeling of Pharmacokinetic and Ecological Systems, ASA/ IMS General Meeting, Boston, MA, August 1992.

How to Use PC-SUDAAN to Analyze Sample Survey Data, ASA Winter Conference, Louisville, KY, January 1992.

COMPUTING AND CONSULTING EXPERIENCES:

Statistical Consulting Unit (SCU) Activities:

SGA Vision 20/20, Grantson Martin, Student Government Association, Georgia Southern University,
Consulting Completed October 21, 2016.

Examining Relationship between Music Skills: naming intervals (sounds) and identifying errors performance, Laura Stambaugh, Department of Music, Georgia Southern University,
Consulting Completed September 30, 2016.

Panel data on Executive Careers, Kerry Kuenzi, Department of IPNS, Georgia Southern University,
Consulting Completed September 30, 2016.

Proposed Project on Use of Nursing Practioner to run Medical Home, Sharon Radzyminski and Knicole Lee, School of Nursing, Georgia Southern University,
Consulting Completed August 26, 2016.

Advantages/Disadvantages of Using Weibull and/or Markov Chains to Project Condition Deterioration Rates of Steel Bridges Elements, Department of Civil Engineering, College of engineering, Georgia Southern University.
Consulting Completed August 28, 2016.

Survey of below ground carbon volume on GSU Campus, Stuart Baker, Department of Biology, Georgia Southern University.
Consulting Completed April 29, 2016.

Fertilizer Treatment Effects Compared on Biomass Yield Using Randomized Block Design, Department of Biology, Georgia Southern University.
Consulting Completed April 22, 2016.

Measure of Internal Consistency Reliability of Questionnaires by Jeniba Dart, East Georgia College, **November 2014. Consulting Completed January 2015.**

Family and Faith Interventions to Improve Chronic Illness, Marian Tabi and Kathy Anderson, School of Nursing, Georgia Southern University, **October 31, 2014, Ongoing.**

End-of-Life "Not on my watch" Simulation Study, Christy Dubert, Rose Mary Gee and Linda Upchurch, School of Nursing, Georgia Southern University, **October 3, 2014, Ongoing.**

Transformation of Nursing Students Attitude Towards Care of Dying, Peggy Mossholder, School of Nursing, Georgia Southern University, **October 21, 2014, Ongoing.**

Developing Outcome Measures for HRSA Grant Proposal, Ursula Pritham, School of Nursing Georgia Southern University, **October 14, 2014, Ongoing.**

Subjective Social Status and Positive Indicators of Well-Being, Jennifer Zorotovich, School of Human Ecology, Georgia Southern University. **Consulting Completed September 9, 2014.**

Question About Probability of Having a Stroke, Sherra Durden, Brewton-Parker College. **Consulting Completed September 19, 2014.**

Reporting of Data and Analysis, Marie Graf, School of Nursing, Georgia Southern University. **Consulting Completed August 8, 2014.**

Difference in Student Achievement Based on Teacher Quality (Nontraditional versus Traditional), Cynthia Griffin, Burke County High School. **Consulting Completed April 14-April 15, 2014.**

Developing Nursing Scholarship/Research Center to Support Faculty Scholarship, Sharon Radzyminski and Kathy Anderson, School of Nursing, Georgia Southern University, **April 4, 2014, Ongoing.**

National Graduate Nursing Scholarship and Grant Development, Kim Kuebler and Dellaire Shilling, School of Nursing, Georgia Southern University. **Consulting Completed May 13, 2014.**

Assist in Planning Analysis to Questions on Survey for Dissertation, Peggy Mossholder, School of Nursing, Georgia Southern University, **May 13, 2014, Ongoing.**

Service Learning and Its Contribution to Course Objectives in Early Childhood Curriculum Class, Nancy Arrington, Department of Teaching and Learning, Georgia Southern University. **Consulting Completed February 10, 2014.**

Retention Programs of African Americans by Thaddeus L. Shubert, College of Education, Georgia Southern University. **Consulting Completed May 02, 2013.**

National graduate nursing survey-comparison of actual knowledge with self-perceived knowledge by Kim Kuebler and Dellaire Shilling, School of Nursing, Georgia Southern University. **Consulting Completed January 18, 2013.**

How positive behavior interventions and support impact student office discipline referrals and attendance rates by Amy Gill, Liberty University. **Consulting Completed January 18, 2013.**

Nonequivalent group pretest posttest research design by Kathy Hood, Candler County Board of Education, Georgia, **March 2, 2012. Consulting Completed March 9, 2012.**

Discussions on Preliminary Dissertation Project, Marie Ennis, School of Nursing, Georgia Southern University. **Completed May, 25, 2012.**

Multivariate Regression Analysis, Effect Coding to predict DV by Amy Hackney. **Consulting Completed July 6, 2012.**

Relationship between Job Satisfaction and Full Montessori Training by Jacquelyn L. Mesco, Department of Education, Georgia Southern University. **Consulting Completed June 22, 2012.**

Analysis of information from Process to Obtain Four Goals, Crider Inc., Stillmore, Georgia. **Consulting Completed September 28, 2012.**

Introduction to SPSS by Jerome Ouedraogo, Department of Mathematical Sciences, Georgia Southern University. **Consulting Completed February 2011.**

Installation and Usage of R Package by Wenmin Wang, Department of Mathematical Sciences, Georgia Southern University. **Consulting Completed February 2011.**

Volunteer Pre and First Semester Nursing Students Critical Thinking Quantitative Analysis by Marie Graf, Department of Nursing, Georgia Southern University. Several sessions (February 25, March 25, April 22, 2011). **Consulting Completed April 22, 2011.**

Relationship among Calling, Religiousness and Dysfunctional Career Thoughts via Structural Equation Modeling by Stefanie Rodriguez, Counseling Center, Georgia Southern University. **Consulting Completed April 1, 2011.**

Dose Dependent Survivability of a Gram Positive and Gram Negative Bacteria SPP in Housefly Alimentary Canal by Rabecca Chifanzwa, Department of Biology, Georgia Southern University. **Consulting Completed April 8, 2011.**

Dose Dependent Survivability of Bacteria in Houseflies by Naveen Kumar, Department of Biology, Georgia Southern University. Two sessions (April 4 and April 22, 2011). **Consulting Completed April 22, 2011.**

Installation of the Statistical R Package-Gave Basic Instruction in the Use of R and How to Download Routines of Interest to the Client, Cancer Center, Georgia Health Sciences University Faculty. Client-Dr. Philip Burkhaldt. **Consulting Completed April 26, 2011.**

Installation of the Statistical R Package-Gave Basic Instruction in the Use of R and How to Download Routines of Interest to the Client, Department of Biology, Georgia Southern University Faculty. Client-Dr. John Scott Harrison. **Consulting Completed May 4, 2011.**

Evaluating Restoration Potential: Shade and Litter Effects on Early Life Stages, by Timothy Estep, Department of Biology, Georgia Southern University. **Consulting Completed October, 2011.**

Differences in Algae Community Composition in the Altamaha River Estuary by Marshall West, Department of Biology, Georgia Southern University. **Consulting Completed December 2, 2011.**

Analysis of Facial Perceptions Across Ethnic Groups by Robert Shanafelt, Department of Sociology and Anthropology, Georgia Southern University Faculty. **Consulting Completed February 26, 2010.**

Social Networking of College Students by Melanie Stone, Department of communication Arts, Georgia Southern University Faculty. **Consulting Completed April 30, 2010.**

Study Data in Support/consideration of a National Policy document by Randall McClure, Department of Writing and Linguistics, Georgia Southern University Faculty. **Consulting Completed February 26, 2010.**

Study Data in Support/consideration of a National Policy document by Randall McClure, Department of Writing and Linguistics, Georgia Southern University Faculty. **Consulting Completed August 27, 2010.**

Describe the difference between the scores of a group of students who used the IPOD and students who did not use it, by Rachel Smith, Student at Georgia Southern University. **Consulting Completed June 10, 2009.**

Single Sex Education and its impact on academic achievement, discipline, referral frequency and attendance for first and, second grade public school students, by Katherine Bradley, department of Educational leadership, Mercer University, (High School Administrator: Southeast Bulloch High School). **Consulting Completed April 29, 2009.**

Use of a confidence-assessment technique to examine student perceptions of learning before and after learning/instruction by Don Slater, CMCET, Georgia Southern University Faculty. **Consulting Completed April 28, 2009.**

Comparing the effects of independent variables across multiple models in MLR, by Ted M. Brimeyer, Georgia Southern University Faculty. **Consulting Completed February 13, 2009.**

A Pre-Post Test Control Group Design, Flint River Technical College, Thomaston, GA. **Consulting Completed May 27, 2008.**

Effectiveness of an After School Program, Walden University. **Consulting Completed April 1, 2008.**

Comparison of Number of Sick Days for Nurse Smokers versus Nonsmokers, Department of Nursing, Georgia Southern University. **Consulting Completed April 4, 2007.**

Statistical data analysis for the examination of elephant occurrence and behavior at a water hole in Northern Tanzania, Department of Biology, Georgia Southern University. **Consulting Completed March 9, 2007.**

Statistical Data Analysis for Crop management, National Onion Laboratory, Inc. Collins, GA. **Consulting Completed October 6, 2006.**

Spatial Dispersion, Oceanography Institute, Savannah, GA. **Consulting Completed August 2006.**

Mediational Regression Procedures with Multiple Intercorrelated Dependent Variables and Categorical Independent Variables, Department of Hospitality, Tourism, Family and Consumer Sciences, Georgia Southern University. **Consulting Completed June 2006.**

Log linear Models in Categorical Data Analysis, College of Education, Department of Educational Psychology, Research and Measurement, University of Georgia. **Consulting Completed 1998.**

Statistical Consultant with Kinko's Inc.: Determination of Sample Sizes for Regional Growth Projections, Atlanta, GA. **Consulting Completed 1996.**

Extensive programming experiences in R, FORTRAN, MATLAB, SAS, and SPSS.

Familiar with SPLUS, BMDP, MINITAB, C, C++, MATHEMATICA and MAPLE V.

AWARDS AND APPRECIATION:

Certificate of Appreciation in recognition of outstanding contribution in reviewing and judging student contributions and presentations for the 2013 ABRCMS in Nashville, Tennessee, 2013.

Certificate of Appreciation in recognition of outstanding contribution in reviewing and judging student contributions and presentations for the 2012 ABRCMS in San Jose, California, 2012.

Certificate of Appreciation in recognition of outstanding contribution in reviewing and judging student contributions and presentations for the 2011 ABRCMS in St. Louis, Missouri, 2011.

Certificate of Appreciation in recognition of outstanding contribution in reviewing and judging student contributions and presentations for the 2010 ABRCMS in Charlotte, North Carolina, 2010.

Student Disability Resource Center Recognition Award, Georgia Southern University, January 23, 2007.

Certificate of Appreciation, Summer Research Program, Georgia Southern University, August 2001.

Award of Appreciation, Second World Conference of the International Association of Statistical Computing, February 1997.

Certificate of Appreciation, Summer Research Program, Georgia State University, August 1993.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

International Biometric Society (IBS)
American Statistical Association (ASA)