STEPHEN M. SCARIANO

PERSONAL

P.O. Box 8818 Huntsville, Texas 77340

PRESENT POSITION

Professor, Department of Mathematics and Statistics 1900 Avenue I, Suite 417-A Sam Houston State University Huntsville, Texas 77341 (936) 294-1506 Email: scariano@shsu.edu

EDUCATION

 Ph.D., Mathematical Statistics, Texas Tech University, 1983 Dissertation: Regression Analysis with Correlated Observations.
 M.S., Mathematical Statistics, Texas Tech University, 1981 Thesis: A Four Moment Solution to the Behrens-Fisher Problem.
 B.S. (Honors), Mathematics, Loyola, 1977

Honor Diploma, De La Salle High School, New Orleans, LA. 1973

ACADEMIC EXPERIENCE

Sam Houston State University Mathematics and Statistics Faculty Professor with complete responsibility for teaching various undergraduate and graduate mathematics and statistics courses. (Fall 2008 – present)

Loyola University Mathematical Sciences Faculty Professor with complete responsibility for teaching various undergraduate and graduate mathematics and statistics courses. (Spring 2001 – Spring 2008)

Loyola University Mathematical Sciences Faculty Associate Professor with complete responsibility for teaching various undergraduate and graduate mathematics and statistics courses. (Spring 1987 – Spring 2001)

Loyola University Mathematical Sciences Faculty Assistant Professor with complete responsibility for teaching various undergraduate and graduate mathematics and statistics courses. (Fall 1984 - Spring 1987)

Texas Tech University Mathematics Faculty - Visiting Assistant Professor of Mathematics and Statistics with complete responsibility for teaching various graduate and undergraduate mathematics and statistics courses. (Fall 1983 - Summer 1984)

Texas Tech University Mathematics Staff Part-time instructor with complete responsibility or teaching various mathematics and introductory statistics courses. (Summer 1981- Summer 1983)

Texas Tech University Mathematics Graduate Teaching Assistant (Fall 1978 - Spring 1981)

PROFESSIONAL SOCIETIES AND ASSOCIATIONS

American Statistical Association Institute of Mathematical Statistics American Society for Quality National Council of Teachers of Mathematics

OFFICIAL POSITIONS HELD PROFESSIONAL ORGANIZATIONS

Publicity Director for the 1986 Joint Annual Meetings of the American Mathematical Society and the Mathematical Association of America.

Secretary-treasurer (1985-1988) of the Louisiana Chapter of the American Statistical Association.

HONORARIES

B.S. Honor Diploma - Magna Cum Laude
University Fellow, Loyola University
Outstanding Graduate Mathematics Student 1982-83 Texas Tech University
Plaque of Appreciation (1984-85) awarded by the Loyola Chapter of Pi Mu Epsilon mathematics organization.
Selected by the Student Alumni Association of Loyola University for excellence

dedication, and enthusiasm in the field of education (1992).

RESEARCH INTERESTS

Statistical Quality Control Statistical Consulting Mathematical Statistics Stochastic Modeling Actuarial Science Nonparametric Statistical Techniques Theory and Application of Multivariate Analysis

INDUSTRIAL EXPERIENCE

President, StatData Consulting, LLC (2008 - present) President, Statistical Consulting Associates, LLC (2006 - 2008) President, Old South Distributing Company, Inc. (1991- 2005)

PROFESSIONAL CONSULTING

Contributing co-author of the statistics section of the <u>Business Analyst Guidebook</u> published by Texas Instruments Inc. to aid students who purchase the Student Business Analyst TM calculator. Consumer products Division, Education and Communication Center, Texas Instruments, Inc. (Consulting Agreement #82-114; Decemberl981 -May 1982)

Faculty consultant and presenter for the Systemic Initiatives Teaching Environment -Calculus (SITE-C) Teams: A Graphing Calculator Workshop for Calculus. A Casio, Inc., Loyola University workshop held on June 14, 1997 and June 28, 1997.

Faculty consultant and presenter for the Systemic Initiatives Teaching Environment - Algebra (SITE-A) Teams: A Graphing Calculator Workshop for Algebra. A Casio, Inc., Loyola University workshop held on April 19, 1997 and May 10, 1997.

PUBLICATIONS (BOOK CHAPTERS)

Business Analyst Guidebook published by Texas Instruments, Inc., 1982. Co-author (with J. M. Davenport) of Chapters 3-7.

PUBLICATIONS (ARTICLES)

"Reconciling the Least-Squares and Point-Slope Forms of a Line for the Two-Point Problem", with Swim, E., *Mathematics and Computer Education Journal*. Vol. 49, No. 3, 167-173, (2015).

Measuring the Variability of Data from Other Values in the Set", with D. L. Jones, in *Teaching Statistics*, 36(3), 93-96, (2014).

Performance Analysis of T20-World Cup Cricket 2012, with A.B.W. Manage and C. R. Hallum. *Sri Lankan Journal of Applied Statistics*, (2013), Vol. 14(1), 1-12.

The Synthetic t and Synthetic EWMA t Charts, with Maria E. Calzada, *Quality Technology and Quantitative Management*, (2013), 10(1), 37-56.

A Synthetic Control Chart for the Coefficient of Variation, with Maria E. Calzada, *Journal of Statistical Computation and Simulation*, (2013-May), 83(5), 851-865.

Is the Home-Field Advantage in Limited Overs One-Day International Cricket Only for Day Matches?, with M. Fernando and A. B. W. Manage, *South African Statistical Journal* (2013), Vol. 47, 1-13.

Medians, Modes, and Making Decisions, with Dustin L. Jones, *Texas Mathematics Teacher*, *Volume* LIX, Issue 1, (2012), 18-20.

A Classroom Note on Strengthening Statistical Reasoning with Loaded Dice, with Dustin L. Jones, *Mathematics and Computer Education*, Vol. 46, No. 2, 86-97, (2012)

A Serendipitous Path to Taylor's Theorem, with Brian Loft, *Mathematics and Computer Education*, Vol. 44, No. 2, Spring Issue 2010.

A Classroom Note On: Student Misconceptions Regarding Probabilistic Independence vs. Mutual Exclusivity, with Ananda B. W. Manage, *Mathematics and Computer Education*, Vol. 44, No. 1, Winter Issue (2010).

Mean, Median and Mode from a Decision Perspective, with Melinda M. Holt, *Journal of Statistics Education*, Vol. 17, No. 3, November (2009).

The Generalized Synthetic Chart, with Maria E. Calzada, Sequential Analysis, 2009, 28: 54-68.

The Robustness of the Three-Way Chart to Non Normality, with Ananda Bandulasiri, *Communications in Statistics: Simulation & Computation*, Volume 38(3), March 2009, 441-453.

- Joint Monitoring of the Mean and Variance of Combined Control Charts with Estimated **Parameters**, with Maria E. Calzada, *Communications in Statistics Simulation and Computation*, Volume 36, No.5, September 2007, 1115 1134.
- Statistical Thinking with Trend Charts, with Maria E. Calzada, *Mathematics Teacher*, (2007), Vol. 100, No. 8, 534 541.
- A Natural Bridge from Algebra and Geometry to Trigonometry, with Maria E. Calzada, *Mathematics Teacher*, (2006), Vol. 99, No. 6, 450 458.
- Estimation-Equivalent Covariance Structures for the Least Squares and MINQUE Estimators of the Linear Model Variance, with Dean Young and Cecil Hallum, *Communications in Statistics - Theory and Methods*, (2005), Vol. 34, 625-629.
- Three Perspectives on Teaching Least Squares, with Maria E. Calzada, *Mathematics and Computer Education*, (2004), 38(3), 255-364.
- Average Run Length Computations for the Three-Way Chart, with Maria E. Calzada, *Communications in Statistics – Simulation and Computation*, (2004), Vol. 33, No. 2, 505-524.
- **Computing Average Run Lengths for the MaxEWMA Chart**, with Maria E. Calzada and Gemai Chen, *Communications in Statistics Simulation and Computation*, (2004), Vol. 33, No. 2, 489-503.
- Comparing Location Estimators for Exponential Mixtures under Pitman's Measure of Closeness, with Jaimie L. Hebert, *Communications in Statistics Theory and Methods*, (2004), Vol. 33, No. 1, 29-46.
- Reconciling the Integral Equation and Markov Chain Approaches for Computing EWMA Average Run Lengths, with Maria E. Calzada, *Communications in Statistics - Simulation and Computation*, (2003), Vol. 32, No. 2., 591-604.
- The Robustness of the MaxEWMA Chart to Non-normality, with Maria E. Calzada, Communications in Statistics - Simulation and Computation, (2003), Vol. 32, No. 2, 573-590.
- Adapting EWMA Control Charts for Batch-Correlated Data, with Jaimie Hebert, *Quality Engineering*, (2003), Vol.15, No. 4, 545-556.

- A Note on the Lower-Sided Synthetic Chart for Exponentials, with Maria Calzada, *Quality Engineering*, (2003), Vol. 15, No. 4, 677-680.
- Contrasting Total Least Squares with Ordinary Least Squares Part I: Basic Ideas and Results, with William Barnett, II, *Mathematics and Computer Education*, (2003), 37(2), 141-158.
- **Contrasting Total Least Squares with Ordinary Least Squares Part II: Examples and Comparisons**, with Maria Calzada, *Mathematics and Computer Education*, (2003), 37(2), 159-174.
- **The Robustness of the Synthetic Control Chart to Non-Normality**, with Maria Calzada, *Communications in Statistics Simulation and Computation* (2001), B, 30(2), 311-326.
- Simpson's Paradox and Matrix Determinants, with Maria Calzada, *Mathematics and Computer Education*, (2000), 34(3), 237-244.
- What is Normal, Anyway?, with Maria Calzada, *Mathematics Teacher Focus on Statistics Edition*, (1999), 92(8), 682-689.

Beyond Basic Statistics with the Graphing Calculator Part II: Comparing Distributions, with Maria Calzada, *Mathematics and Computer Education*, (1996),30(2), 154-157.

- Beyond Basic Statistics with the Graphing Calculator Part I: Assessing Goodness-of-Fit, with Maria Calzada, *Mathematics and Computer Education*, (1996), 30(1), 23-32.
- Decisions, Decisions, Decisions. Mathematics and Computer Education, (1995), 29(1), 83-93.
- Squaring a Circle A Problem from Antiquity, with George Bonnett. *Mathematics and Computer Education*, (1994), 28(2), 169-172.
- The Role of the Graphing Calculator in the Basic Skills Mathematics Curriculum, with Maria Calzada, *Mathematics and Computer Education*, (1994), 28(1), 60-69.
- The Almost Heptagon and the Law of Cosines, with George Bonnett. *Mathematics and Computer Education*, (1993), 27(2),102-104.
- A Matrix Analogue to the Arithmetic-Geometric-Harmonic Means Inequality, with C. R. Hallum. *Mathematics and Computer Education*, (1993), 27(2), 95-101.
- Searching for Change-points using Extrema of Pooled Sample Variances, with K. Messa. *Mathematics and Computer Education*, (1992), 26(3), 254-271.
- Cord Blood Gas Patterns Identifying Newborns at Increased Risk of Group B Strepococcal Sepsis, with D. M. Montgomery, C. M. Stedman, A. G. Robichaux, III, and J. Joyner. *Obstetrics and Gynecolov*, (1991), 78, No. 5, Part I, 774-777.
- Change-point Estimation using Sample Means, with T. Smith. *Mathematics and Computer Education*, (1990), 24(3), 217-224.
- **Comparisons of Changepoint Estimators**, with T. A. Watkins. *Communications in Statistics Simulation and Computation*, (1990), B,19(2), 619-636.

- An Algorithm for Computing Nonparametric Estimators of Change-points, with T. A. Watkins. *Communications in Statistics Simulation and Computation* (1988), B,4(11), 1511-1532.
- **Nonparametric Point Estimators for the Change-point Problem**, with T. A. Watkins. *Communications in Statistics Theory and Methods* (1988), A,17(11), 645-675.
- The Effects of Violations of Independence Assumptions in the One-Way ANOVA, with J. M. Davenport. *American Statistician*, (1987), Volume 41, 123-129.
- Estimating the Maximum (Minimum) of a Quadratic Function under Certain Correlation Patterns, *Australian Journal of Statistics* (1986), Volume 28(1), 46-51.
- A Four-Moment Approach and Other Practical Solutions to the Behrens-Fisher Problem, with J. M. Davenport. *Communications in Statistics - Theory and Methods* (1986), A,15(5), 1467-1505.
- Estimating the Point of Intersection of Two Lines under Correlation, Communications in Statistics Simulation and Computation (1985), B, 14(1), 255-261.
- **Corrected F-Tests in the General Linear Model**, with J. M. Davenport. *Communications in Statistics Theory and Methods* (1984), A, 13(25), 3155-3172.
- **Testing Regression Function Adequacy with Correlation and Without Replication**, with J. W. Neill and J. M. Davenport. *Communications in Statistics Theory and Methods* (1984), A, 13(10), 1227-1237.

PUBLICATIONS (LETTERS)

- An Alternate Way of Computing Uncertainties, with A. R. Marlow, S. J. American Journal of Physics, (1991), 59(12), 1149.
- Connecting. <u>Mathematics Teacher</u>. (1993), Vol. 86, No. 3, 195.

Slope Invariance, with Angie Troxclair. <u>Mathematics Teacher</u>. (1999), Vol. 92, No. 2, 154-156.

PUBLICATIONS (PROCEEDINGS)

A Natural Bridge from Algebra and Geometry to Trigonometry, with Maria E. Calzada, *Proceedings of the 2006 Hawaii International Conference on Statistics, Mathematics, and Related Fields*, 2006

A Linear Collocation Method for EWMA Quality Control Charts, with Maria E. Calzada, Proceedings of the 2005 International Conference on Scientific Computing, 2005. Technological Tools for Contrasting the Ordinary and Total Least Squares Methods, with Maria E. Calzada, Proceedings of the Fifteenth Annual International Conference on Technology in Collegiate Mathematics (2002).

Visual EDF Software to Check the Normality Assumption, with Maria Calzada, *The Electronic Proceedings of the 15th International Conference on Technology in Collegiate Mathematics* held in November of 2002. http://archives.math.utk.edu/ICTCM/EP-15.html .

Beyond Basic Statistics with the Graphing Calculator, with Maria Calzada, *Proceedings of the Eight Annual International Conference in Technology in Collegiate Mathematics*, 1997.

Graphing Calculators, Computers, and Software to Support Systemic Changes in the Mathematics Curriculum, with Antonio Lopez, Jr. and Maria Calzada, *Proceedings of the Seventh Annual International Conference on Technology in Collegiate Mathematics*, 1996.

PRESENTATIONS DELIVERED TO LEARNED SOCIETIES

"New Estimators of the Degrees of Freedom of Approximate F's with Applications to the Behrens-Fisher Problem." Spring (1982) Meeting of the ENAR, ASA, & IMS. held in San Antonio, Texas, March 14-17,1982.

"Model Adequacy with Correlated Observations." 1983 Annual Joint Statistical Meetings of the American Statistical Association, Biometric Society (ENAR, WNAR), Institute of Mathematical Statistics, and the Statistical Society of Canada held in Toronto, Ontario, Canada, August 15-18,1983.

"Estimation in Poisson Processes." Winter 1985 Joint Meetings of the Louisiana Chapter of the American Statistical Association and the Louisiana Academy of Sciences held on the campus of Northwestern Louisiana University, Natchitoches, Louisiana, February 21, 1985.

"The Effects of Violations of Independence Assumptions in ANOVA: Classroom Discussion" Invited Colloquium Address delivered to the Department of Mathematics and Statistics, University of Southwestern Louisiana, Lafayette, Louisiana, February 21-23, 1985.

"Nonparametric Estimation of Change Points." Winter 1986 Joint Meetings of the Louisiana Chapter of the American Statistical Association and the Louisiana Academy of Sciences held on the campus of Northeast Louisiana University, Monroe, Louisiana, February 6-8, 1986.

Simulation Studies of Change-point Estimators." Winter 1986 Joint Meetings of the Louisiana Chapter of the American Statistical Association and the Louisiana Academy of Sciences (60th annual) held on the campus of Southern University, Shreveport Louisiana, February 5-7, 1987.

"The Effects of Violations of Independence Assumptions in the One-Way ANOVA: Classroom Discussion", Invited Address presented jointly to the University of Houston (Clear Lake) and NASA/JSC, April 3-5, 1987.

"Bootstrap Confidence Intervals for Change-points." Winter 1988 Joint Meetings of the Louisiana Chapter of the American Statistical Association and the Louisiana Academy of Sciences (62nd annual) held on the campus of Southeastern Louisiana University, Hammond, Louisiana, February 4-6,1988

"Asymptotic Properties of Change-point Estimators." Winter 1988 Joint Meetings of the Louisiana Chapter of the American Statistical Association and the Louisiana Academy of Sciences (62nd annual) held on the campus of Southeastern Louisiana University, Hammond, Louisiana, February 4-6,1988

"Comparisons of Change-point Estimators." Winter 1989 Joint Meetings of the Louisiana Chapter of the American Statistical Association and the Louisiana Academy of Sciences (63rd annual) held on the campus of Louisiana State University at Alexandria, Louisiana, February 2-4, 1989

"Statistical Comparisons of Changepoint Estimators." Invited Address presented to the 1989 Joint Applications in Instrumentation Process and Computer Control Symposium (JAIPCC), Houston, Texas March 23, 1989.

"Change-point Estimation." presented at the Spring Conference of the Greater New Orleans Teachers of Mathematics 1990, held at the Sheraton Hotel - Airport, March 24, 1990.

"Searching for Change-points Using Sample Variances." presented at the Annual Conference of the Greater New Orleans Teachers of Mathematics 1992, held at the Sheraton Hotel - Airport, March 20-21,1992.

"Two Developmental Approaches to Change-point Estimation." Invited Address presented to the Mathematical and Information Sciences seminar series of Sam Houston State University, Huntsville, Texas, May 1,1992.

"Change-point Techniques for Inventory and Process Control." Invited Address presented to the New Orleans chapter of the American Production and Inventory Control Society (APICS) held at the Holiday Inn - East, October 27, 1992.

"The Almost Heptagon and the Law of Cosines." and "A Matrix Analogue to the Arithmetic-Geometric-Harmonic Means Inequality." Invited Speaker for the Patrick L. Odell Colloquia Series, Sam Houston State University, Huntsville, Texas, March 24, 1993.

"Mathematical Connections with Slope Invariance", with Angie Troxclair, presented at the Annual Conference of the Greater New Orleans Teachers of Mathematics 1998, held at Benjamin Franklin High School, New Orleans, LA, January 24, 1998.

"On the Robustness of the Synthetic Control Chart", with Maria Calzada, presented at the Joint Mathematics Meetings of the American Mathematics Society, held in New Orleans, LA, January 13, 2001.

"Visual EDF Software to Check the Normality Assumption", presented at the 15th Annual International Conference on Technology in Collegiate Mathematics, held at the Hilton in the Walt Disney World Resort, Orlando, FL, October 31, 2002 – November 3, 2002.

"Technological Tools for Contrasting the Ordinary and Total Least Squares Methods", presented at the 15th Annual International Conference on Technology in Collegiate Mathematics, held at the Hilton in the Walt Disney World Resort, Orlando, FL, October 31, 2002 – November 3, 2002.

A Linear Collocation Method for EWMA Quality Control Charts, with Maria E. Calzada, *Proceedings of the 2005 International Conference on Scientific Computing*, 2005

"A Natural Bridge from Algebra and Geometry to Trigonometry", with Maria E. Calzada, *Proceedings of the 2006 Hawaii International Conference on Statistics, Mathematics, and Related Fields*, 2006

"Comparing Control Charts with Estimated Parameters," with Maria E. Calzada, *Abstracts of Papers Presented to the American Mathematical Society 2006*, Vol. 28, No.1, Issue 147, pp. 175-176.

"Statistical Thinking with Trend Charts" with Maria E. Calzada, Invited Speaker for the Colloquia Series, Sam Houston State University, Huntsville, Texas, March 23, 2007.

"Joint Monitoring of the Mean and Variance of Combined Control Charts with Estimated Parameters " with Maria E. Calzada, Invited Speaker for the Colloquia Series, Sam Houston State University, Huntsville, Texas, March 23, 2007.

"Generalized Synthetic Control Charts" with Maria E. Calzada, Invited Speaker for the Colloquia Series, Sam Houston State University, Huntsville, Texas, October 5, 2007.

"Careers in Mathematics and Statistics", Panel Discussant, Fifth Annual Texas Undergraduate Mathematics Conference, Sam Houston State University, Huntsville, Texas, November 7, 2009.

"A Serendipitous Path to Taylor's Theorem", Conference on the Teaching of Mathematics 6 – 12, Sam Houston State University, Huntsville, Texas, February 5 -6, 2010.

"Student Misconceptions Regarding Probabilistic Independence vs. Mutual Exclusivity", with A. Manage, MAA-Texas, April 2010.

Teaching Statistical Reasoning through Contingency Tables, with M. Holt, Joint Mathematics Meetings, January 2010.

"Statistical Thinking with Trend Charts", Pacific Undergraduate Research Experience in Mathematics (PURE), University of Hawaii, Hilo, Friday, June 27, 2014.

"A Statistical Application of Principal Components to the Sport of Cricket", Pacific Undergraduate Research Experience in Mathematics (PURE), University of Hawaii, Hilo, Friday, June 27, 2014.

FUNDED GRANTS

"Graphing Calculators, Computers, and Software to Support Systemic Changes in the Mathematics Curriculum.", ENH-UG-11 with A. Lopez, Jr. and M. Calzada, funded by the Louisiana Education Quality Support Fund of the Louisiana Board of Regents (1993-94), (\$38,679).

Casio T.E.A.M.S. Grant (1997) for the creation of a for the creation of a <u>Systemic Initiative</u> <u>Teaching Environment</u> (S.I.T.E. Calculus Teams) with A. Lopez, Jr. and M. Calzada , (\$6,850).

Casio T.E.A.M.S. Grant (1997) for the creation of a for the creation of a <u>Systemic Initiative</u> <u>Teaching Environment</u> (S.I.T.E. Algebra Teams) with A. Lopez, Jr. and M. Calzada , (\$5,492).

"Supporting Standards-based Mathematics Education Reform.", ENH-UG-16 with A. Lopez, Jr. and M. Calzada, funded by the Louisiana Education Quality Support Fund of the Louisiana Board of Regents (1998-99), (\$30,000).

New Orleans Public Schools Urban Systemic Initiative (1999) grant to support professional development training of New Orleans Public Schools in-service mathematics teachers, with A. Lopez, Jr. and M. Calzada., (\$29,987)

"Technology for Enhancing Mathematics Education Reform.", ENH-UG-13 with A. Lopez, Jr. and M. Calzada, funded by the Louisiana Education Quality Support Fund of the Louisiana Board of Regents (1999-00), (\$30,188).

"A Rolling Plan for Continuous Mathematics Education Reform", ENH-UG-23 with M. Calzada and C. Mora, funded by the Louisiana Education Quality Support Fund of the Louisiana Board of Regents (2002-03), (\$37,180).

Mathematics Education Reform for the New Millennium ENH-UG-22 with M. Calzada, funded by the Louisiana Education Quality Support Fund of the Louisiana Board of Regents (2004-05), (\$35,620).

COURSES TAUGHT (Undergraduate)

Mathematics:

- Calculus of One Variable Calculus of Several Variables Advanced Calculus and Integration Theory Pre-Calculus Linear Algebra Mathematics for Business Mathematical Models College Mathematics Mathematics for Elementary Education Basic Skills Mathematics
- Probability and Statistics: Mathematical Probability Mathematical Statistics Nonparametric Statistics Time Series Analysis Stochastic Processes Regression Analysis (graduate) Probability and Statistics (MST) Markov Chains Quality Control Statistical Design of Experiments Elementary Statistics

COURSES TAUGHT (Graduate)

Probability and Statistics:

Statistical Quality Control Design and Analysis of Experiments Theory and Applications of Probability Theory and Applications of Statistics Reliability Analysis and Quality Control Time Series Analysis

COMMITTEE SERVICE

Loyola University:

Curriculum Committee, College of Arts & Sciences (1 term) Rank and Tenure Committee, College of Arts & Sciences (1 term) Faculty Development Committee, College of Arts & Sciences (1 term) Salary Oversight and Review Committee (3 full 2-year terms, 1 1-year replacement term) University Senate (3 terms - each term is 3 years) University Faculty Handbook Revision Committee (3 terms - each term is 3 years) University Budget Committee (3 terms - each term is 3 years) University Rank and Tenure Committee (2 terms - each term is 3 years) University Planning Team (3 terms - each term is 3 years) Steering Committee – University Planning Team (1 term) Provost and Academic Vice President Search Committee President's Committee on Faculty Salaries Loyola University PK-16+ Council

Sam Houston State University:

Academic Compensation Review Committee Merit Review Committee (2 terms), Department of Mathematics & Statistics Workload Committee, Department of Mathematics & Statistics Academic Compensation Review Committee, University Committee Statistics Faculty Hiring Committee, Department of Mathematics & Statistics Post-Tenure Review Committee for Revising Standards

SERVICE TO THE COMMUNITY

Judge for the Mathematics Competition of the Greater New Orleans Science and Engineering Fair, Region IX of Louisiana, 1992 - 2005. Boy Scouts of America (12 years). Committee Chairman - Boy Scout Troop 110 (2 years) Crew Advisor Troop 110 to the Charles L. Somners Canoe Base (Ely, MN 1999) Boy Scouts of America Youth Protection Coordinator - Troop 110 Committee Chairman - Boy Scout Troop 610 (6 years)

REFERENCES

- Dr. Cecil R. Hallum Professor of Mathematics and Statistics, Department Mathematics, and Statistics, Sam Houston State University, Huntsville, TX.
- Dr. Laurie M. Joyner, President, Whittenburg University, Springfield, Ohio

Dr. Maria E. Calzada, Dean, Loyola University, New Orleans, LA

Other references provided upon request.