

Texas State Vita
as of January, 2015

Please note: For all entries, list most recent items first. Headings without entries may be eliminated, but the heading lettering/numbering should remain consistent with this template.

I. Academic/Professional Background

A. Name: Ram Shanmugam

Title: Professor

B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
PhD	1979	Temple University	Statistics	On Probability Distributions Involving Stirling Numbers
MS	1975	Rensselaer Polytechnic	Operations Research and Statistics	none
MS	1973	Brigham Young University	Statistics	Behavior of the estimate of mean time between failures computed from the failed items only

C. University Experience

Position	University	Dates
Professor	Texas State University	2004-present
Associate Professor	Texas State University	2001-2004
Adjunct Professor	University of North Texas Health Sciences	2001-present

D. Relevant Professional Experience

Position	Entity	Dates
Editor-in-Chief	Advances in Life Sciences and Health (ALSH).	2015-present
Editor-in-Chief	Global Journal of Research and Review (An International Journal)	2014-present
Statistical Consultant	Laser Communications and Propagation Research Team, University of Colorado	1986-1991
Visiting Scientist	Indian Statistical Institute, Delhi and Bangalore	1987
Systems Analyst	Cancer Control Bureau, New York State Health Department	1973-1974
Biostatistician	City Corporation of Madras, Chennai	1967-1968
Statistical Consultant	Laser Communications and Propagation Research Team, University of Colorado	1986-1991

E. Other Professional Credentials (licensure, certification, etc.).

Fellow, International Statistical Institute, 1984.

II. Teaching

A. Teaching Honors and Awards:



B. Courses Taught:

Texas State University

- HA5534----Operational Decision Making for Healthcare Managers
- HR 5337----Clinical Trials and Biostatistics
- HR 5341----Operations Research in Health Administration (stacked).
- HR5311----Seminar in Health Services Research.
- HR 5333----Regression Analysis and Biostatistics.
- HR 5330----Biostatistics for Health Professionals/Biostatistics
- HP3302----Biostatistics for Health Professionals/Biostatistics (stacked).
- HA5301----Health Administration Research Methods
- HHR 5390----Research Methods in Healthcare Human Resources
- HR 5331----Experimental Design and Biomedical Research (stacked).
- HR 5362----Bioinformatics.
- HR 5363----Medical Informatics.
- HR 5339----A and B Master Thesis.
- HR 5495----Directed Study in Health Research.
- HR 5301----Independent Study in Health Services Research.

C. Graduate Theses/Dissertation, Honors Theses or Exit Committees:

(if supervisor, please indicate).

Ph.D. Dissertation Committee Member of Zhijun Department of Geography.

M.S. Thesis Committee Chair of Xiaoning Zhang, School of Health Administration.

M.S. Thesis Committee Chair of Melinda Laurel, School of Health Administration.

M.S. Thesis Committee Member of Amber Meeks, School of Health Administration.

M.S. Thesis Committee of John Fritz, School of Health Administration.

M.S. Thesis Committee Member of Rachel Marks, Department of Communications Disorders.

Ph. D. Dissertation Committee Member of Yvonne Lozano, University of North Texas, Denton.

Member of the Exist Committee of Shu Chen, Sabrina Vidaurri, Donald B. Eakin, School of Health Administration.

M.S. Thesis Committee Major Supervisor of M. S. student Leora Rodell in Health Services Research program.

M. S. Thesis Committee Member of Cecilia A Palacios (Dept of Communications Disorders).

M.S. Thesis Committee Major Supervisor of Lucille L. Palenapa (Health Research Program).

M.S. Thesis Committee Member of Patricia Longas (Dept of Geography).

Comp Examination Committee:

Jennifer Mata (Chair)

Roopa Ramakrishna (Chair)

Landria Peacock

Ulanday, M

Katherine George

Brooke Jones

Justin Morgan

Gail Nelson

Jeffrey Nwabeke

Landria Peacock

Alison Starr

Roger Garza

D. Courses Prepared and Curriculum Development:

2010 Curriculum developed for graduate course HR 5337

2008 Curriculum developed for undergraduate biostatistics course HP3302.

2008 Curriculum developed for graduate operations research course HR5341.

2008 Curriculum developed for graduate capstone course for health research HR5311.

2005 Curriculum developed for Epidemiology Certificate.

2005 Curriculum developed for Health Informatics Certificate.

2005 Curriculum developed for Biostatistics Certificate.

E. Funded External Teaching Grants and Contracts:

Shanmugam, R., and Deng, H.W. (2006). Grant proposal to NIH, *Genome-wide search for obesity genes* (not funded).

F. Submitted, but not Funded, External Teaching Grants and Contracts:

G. Funded Internal Teaching Grants and Contracts:

Ekin, T., Musal, R., Shanmugam, R. (2014). Estimating and sampling overpayments in Medicare/Medicaid – Bayesian framework, one of seven proposals selected to submit a full proposal to the MIRG program (for \$25,000).

H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

Shanmugam, R., and Sorensen, W. (2006). Proposal titled *Roy R and Joann Cole Mitte Endowed Chair in Healthcare Information Systems Management, Informatics, and Data Analysis*.

I. Other

CONTINUING EDUCATION

I attended the following courses.

- Sep 8, 2014, Creating an outcomes assessment plan (2 hrs)
- Sep 10, 2014, The five fundamentals of successful money management (1.5 hrs)
- Sep 11, 2014, Getting started-Lync 2013 (1.5 hrs)
- Sep 15, 2014, Developing assessment methods & measures (2 hrs)
- Sep 17, 2014, Know your numbers (2 hrs)
- Sep 17, 2014, Getting started-Access 2013 (1.5 hrs)
- Sep 22, 2014, Implementing assessment plans (2 hrs)
- Sep 24, 2014, Getting started-Access 2013 (1.5 hrs)
- Sep 26, 2014, Team building (8 hrs)
- Oct 1, 2014, Getting started-Access 2013 (1.5 hrs)
- Oct 3, 2014, Team building (8 hrs)
- Oct 8, 2014, Getting started-Access 2013 (1.5 hrs)
- Oct 8, 2014, Getting started-Lync 2013 (1.5 hrs)
- Oct 14, 2014, Weight loss seminar (1.0 hrs)
- Oct 15, 2014, Excel 2013-Managing data (1.5 hrs)
- Oct 21, 2014, Access 2013-Queries and reports (1.5 hrs)
- Oct 22, 2014, Word 2013-Styles, bldg, blks, themes (1.5 hrs)
- Oct 29, 2014, Outlook 2013-Calendars resources (1.5 hrs)
- Nov 5, 2014, PowerPoint 2013-Animation & multimedia (1.5 hrs)
- Sep 18, 2013, Students in crisis: How you can help (1.5 hrs)
- Sep 25, 2013, eNPO training (2 hrs)
- Sep 25, 2013, Financial Ed Series: Budget crisis (1.25 hrs)
- Oct 9, 2013, Improve cholesterol through healthy eat (2.5 hrs)
- Oct 9, 2013, Creative and critical thinking (1.5 hrs)
- Oct 10, 2013, PowerPoint 2013-Art, Table, Diagram (1.5 hrs)
- Oct 10, 2013, Getting started-SAP (2 hrs)
- Oct 11, 2013, Emergency procedures (3 hrs)
- Oct 16, 2013, eNPO training (2 hrs)
- Oct 30, 2013, eNPO training (2 hrs)
- Jan 31, 2012, College Student Mental Health (2 hrs).

Feb 14, 2012, Understanding TRAVEL Tracks (2 hrs).
 Feb 15, 2012, Pre-Award Services Available (2 hrs).
 Feb 28, 2012, Word 2010-Bldg Forms & Mail Merge (1.5 hrs).
 Feb 20, 2012, Word 2010-Format Long Documents (1.5 hrs).
 Mar 27, 2012, QPR-Suicide Prevention Training (2 hrs).
 Apr 3, 2012, PowerPoint 2010-Art, Table, Diagram (1.5 hrs).
 Apr 10, 2012, Outlook 2010-Calendars, Resources (1.5 hrs).
 Apr 17, 2012, Excel 2010-Managing Data (1.5 hrs).
 Sep 10, 2012, Student Learning Outcomes: Revising Outcomes and Methods (1.5 hrs).
 Sep 20, 2012, Securing Confidential Information (2 hrs).
 Sep 20, 2012, Manage an Online and Still Have a Life (1 hr).
 Sep 27, 2012, TRACS: Grades and Assignments (1.5 hrs).
 Sep 26, 2012, Estate Planning (1.25 hrs).
 Sep 26, 2012, Calendar Training (1 hr).
 Sep 26, 2012, Teaching with the Power of Web 2.0 (2 hrs).
 Oct 3, 2012, Strategies for Large Classes (1.5 hrs).
 Oct 4, 2012, For the Record (2 hrs).
 Oct 4, 2012, GAMS (Routing and Approvals). (2 hrs).
 Oct 11, 2012, Maintaining civility in the Classroom (2 hrs).
 Oct 1-24, 2012, Survival Spanish Beginner (8 hrs).
 Nov 1, 2012, Fulbright: A World of Opportunity (1.5 hrs).
 Sep 15, 22, 29, Oct 6 2011, Continuing education on Access – Making Transition (6 hrs).
 Oct 20, 2011, Continuing education on Optimizing MATLAB Code (1.5 hrs).
 Oct 20, 2011, Continuing education on PowerPoint 2010-Art, Table, Diagrams (3 hrs).
 Oct 23, 2011, Continuing education on Windows 7 – Making the Transition (1.5 hrs).
 Oct 27, 2011, Continuing education on Outlook 2010-Calendars (1.5 hrs).
 Dec 1, 2011, Continuing education on Adobe_Acrobat X Forms (1 hr).
 Dec 1, 2011, Continuing education on Adobe Days-Design Suite CS 5.5 (1 hr).
 Feb 18, 2010, Continuing education on pre award services to the university community
 Mar 1, 2010, Continuing education on avoid plagiarism and learn how to cite correctly
 Mar 18, 2010, Continuing education on getting work done with Access 2007
 Mar 19, 2010, Continuing education on designing surveys
 Apr 8, 2010, Continuing education on GAMS routing and approvals
 Apr 12, 2010, Continuing education on ways of finding the data using pivot tables
 Apr 19 – May 3, 2010, Continuing education on more award-winning tools, tips and technicians for classroom instruction
 Sep 15, 2010, Continuing education on introduction to information security
 Sep 17, 2010, Continuing education on one size does not fit it all
 Sep 29, 2010, Continuing education on what you really need to know about records management
 Oct 1, 2010, Continuing education on introduction to SPSS
 Oct 21, 2010, Continuing education on contracted services
 Nov 5, 2010, Continuing education on getting started using SPSS syntax
 Nov 17, 2010, Continuing education on brain health in preventing dementia

- 1 - 4 June 2009, 9AM-4PM, Continuing educations classes on SPSS and other related subjects, Texas State University Library.
 - June 1, 9AM-12PM, Getting started with SPSS
 - June 1, 1PM-4PM, Building Surveys
 - June 2, 9AM-12PM, Logistic Regression
 - June 2, 1PM-4PM, Primer in Correlation and Regression
 - June 3, 9AM-12PM, Mediation and Moderation
 - June 3, 1PM-4PM, Introduction to Psychometric Theory Part 1
 - June 4, 9AM-12PM, Introduction to Structural Equation Modeling Part 1
 - June 4, 1PM-4PM, Introduction to Structural Equation Modeling Part 2
- 14 - 18 May 2007, TRACS training to teach online course, Texas State University.
- 28 Sep 2007 Learning Styles: What Faculty Need to Know (1-3PM, Alkek 105).
- 3 Oct 2007 The Faculty Role in Guiding Graduate Students through the Thesis/Dissertation Process, (2-3:30PM, Alkek 105/106).
- 30 Nov 2007 Teaching Today's Texas State Students, (1-3:30PM, LBJ 3-15.1).
- 2-5 Jan 2007 Continuing Education Certificate by the Department of Statistics, Cochin University of Science and Technology, India for giving an invited lecture.
- 3 November 2001 Attended AMIA Symposium's Tutorial on Bioinformatics, in Hilton Hotel, Washington, DC.
- 29 June - 3 July 1997, AMS/IMS/SIAM Summer Research Conference on Graphical Markov Models, Influence Diagrams, and Bayesian Belief Networks, University of Washington, Seattle, Washington.
- 26-27 June, 1997, AMS/IMS/SIAM Conference on Molecular Biology, University of Washington, Seattle, Washington.
- 15-23 June 1993, NSF/CBMS Conference on Semi Parametric Mixture Models: Theory and Methods with Applications in Bayes', Measurement, EM and Random Effects Models, University of South Carolina, Columbia.
- June 1992, NSF/CBMS Conference on Wavelet Models, University of Missouri, Washington.
- 6-12 July 1991, AMS/IMS/SIAM Summer Research Conference on Bio Fluid Dynamics, University of Washington, Seattle, Washington.
- 17-23 June, 1989 AMS/IMS/SIAM Summer Research Conference on Statistical Multiple Integration, Humboldt State University, Arcata, California.
- June 1987, AMS/IMS/SIAM Summer Research Conference on Multivariate Statistical Inference Department of Statistics, University of Michigan, Ann Arbor, Michigan.

III. Scholarly/Creative

A. Works in Print (including works accepted, forthcoming, in press).

1. Books (if not refereed, please indicate).

a. Scholarly Monographs:

b. Textbooks:

(Accepted and the printed version will be in April 2015)

Ramalingam Shanmugam and Rajan Chattamvelli (2015) *Statistics for Scientists and Engineers*, John Wiley Inter-Science Publication, Hoboken, New Jersey 07030, USA

c. Edited Books:

d. Chapters in Books:

Shanmugam, R. (2014). Data guided public healthcare decision making, *Volume II, Category: Medicare and Healthcare Administration, Encyclopedia of Business Analytics and Optimization*, edited by John Wang. pp. 30-43.

Shanmugam, R. (2014). Data envelopment analysis for operational efficiency, *Volume II, Category: Data Envelopment Analysis, Encyclopedia of Business Analytics and Optimization*, edited by John Wang. pp. 18-28.

Shanmugam, R. (2014). Stochastic frontier analysis and cancer survivability, *Volume V, Category: Stochastic Models, Encyclopedia of Business Analytics and Optimization*, edited by John Wang. pp. 18-26.

Shanmugam, R. and Hertelendy, A. (2011). Do developing or developed nations pollute air more? An assessment of health consequences, *Chapter 21 in "The Impact of Air Pollution on Health, Economy, Environment and Agricultural Sources"* edited by M. K. Khallaf, In Tech Publisher, Croatia. pp 423-444

Shanmugam, R. (2006). Bioinformatics. *In Encyclopedia of Measurement and Statistics*, edited by Neil J. Salkind, pp. 90-94.

Shanmugam, R. (2006). Poisson Distribution. *In Encyclopedia of Measurement and Statistics*, edited by Neil J. Salkind, pp. 772-775.

Shanmugam, R. (2006). Bivariate Distributions. *In Encyclopedia of Measurement and Statistics*, edited by Neil J. Salkind, pp. 97-103.

e. Creative Books:

2. Articles

a. Refereed Journal Articles:

Shanmugam, R. (2015) Refined randomized response model for suspicious answers: Illicit drug users in U.S.A. are illustrated, *International Journal of Ecological Economics & Statistics*, 36, 15-27.

- Shanmugam, R. (2015) Whether Gaussian nucleus entropy helps? Case in point is prediction of number of cesarean births, *American Journal of Biostatistics*, (page numbers are pending).
- Shanmugam, R. (2014) Health broken woven Poisson spheres to manage deadly Ebola incidences, *American Journal of Infectious Diseases*, 10, 143-154.
- Shanmugam, R. (2014). "Bivariate Distribution" for infrastructures among operative, natural, and no menopauses, *American Journal of Biostatistics*, 4, 34-44.
- Shanmugam, R. (2014). How do queuing concepts and tools help to effectively manage hospitals when the patients are impatient? A demonstration, *International Journal of Research in Medical Sciences*, 2, 1076-1084.
- Shanmugam, R. (2014). A bivariate probability model to identify "honesty" versus "cheating" in economic surveys: Xenophobia is illustrated. *Am. J. Econ. Bus. Admin.*, 6: 42-48.
- Shanmugam, R. (2014). $C(\alpha)$ method to check daunting over/under variances to understand times to aftershocks since a major earthquake, *Computer, Electronics, Electrical, and Communication*, 59, 190-193.
- Shanmugam, R. (2014). Data guided public healthcare decision making, *Volume II, Category: Medicare and Healthcare Administration, Encyclopedia of Business Analytics and Optimization*, edited by John Wang. pp. 30-43.
- Shanmugam, R. (2014). Probing non-adherence to prescribed medicines? A bivariate distribution with information nucleus clarifies, *American Medical Journal*, 5, 54-60.
- Shanmugam, R. (2014). Data envelopment analysis for operational efficiency, *Volume II, Category: Data Envelopment Analysis, Encyclopedia of Business Analytics and Optimization*, edited by John Wang. pp. 18-28.
- Singh, H. P., Shanmugam, R., Singh, S., and Kim, J. M. (2014). Estimation of median in the presence of three known quartiles of an auxiliary variable, *Communication for Statistical Applications and Methods*, 21, 1-24.
- Shanmugam, R. (2014). Stochastic frontier analysis and cancer survivability, *Volume V, Category: Stochastic Models, Encyclopedia of Business Analytics and Optimization*, edited by John Wang. pp. 18-26.
- Shanmugam, R. (2014). Over/under dispersion sometimes necessitates modifying, *International Journal of Statistics and Poisson model with illustration of tetanus cases and deaths after tsunami, International Journal of Ecological Economics & Statistics*, 34(3), 37-42.
- Shanmugam, R. (2014). Revelation of shrunken or stretched binomial dispersion and public perception of situations, which might spread AIDS or HIV, accepted to appear in *International Journal of Research in Medical Sciences*, 2(2), .462-467.
- Shanmugam, R. (2014). Tweaked binomial distribution to capture the impact of drilling to cure bioterror victims in hospitals, *International Journal of Statistics and Economics*, 13(1), 40-45.
- Shanmugam, R. (2014). An assessment of nurses' sufficient immunity when treating infectious patients using bumped-up binomial model, *International Journal of Research in Medical Sciences*, 2(1), 132-138.
- Furia, J., Willis, B., Shanmugam, R. and Curran, S. (2013). Systematic review of contracture reduction in the lower extremity with dynamic splinting, *Advances in Therapy*, 30, 763-770.

- Shanmugam, R. (2013). Shortage level of matching kidney and pancreas organs for implant is estimated, *International Journal of Research in Nursing*, 4(2), 40-46.
- Zhang, Y., Singh, J. and Shanmugam, R. (2013). Modeling to capture covariate effect, accepted to appear in *Communications in Statistics*, page numbers are pending.
- Shanmugam, R. (2013). Informatics about fear to report rapes using bumped-up Poisson model, *American Journal of Biostatistics*, 3(1), 17-29.
- Shanmugam, R. (2013). Alzheimer's disease prognosis is captured by a down-up-sized incidence Poisson distribution, in *American Medical Journal*, 4(2), 150-159.
- Shanmugam, R. (2013). Does smoking delay pregnancy? Data analysis by a tweaked geometric distribution answers, *International Journal of Research in Medical Sciences*, 1(4), 343-348.
- Shanmugam, R. (2013). Tweaking exponential distribution to estimate the chance for more survival time if a cancerous kidney is removed, *International Journal of Research in Nursing*, 4(1), 29-33.
- Shanmugam, R. (2013). Unified survival functions are derived and illustrated using hospitals' preparedness data to treat anthrax cases, *International Journal of Statistics and Economics*, 12(3), 82-95.
- Shanmugam, R. (2013). Probabilistic health-informatics and bioterrorism, *International Journal of Communication and Computer*, 10, 28-32.
- Shanmugam, R. (2013). Hacking-Vigilance distribution with application to assess cyber insecurity level, *International Journal of Information and Education Technology*, 3 (3), 300-303.
- Shanmugam, R. (2013). Alternate to traditional goodness of fit test with illustration using service duration to patients in hospitals, *International Journal of Statistics and Economics*, 11(2), 31-43.
- Shanmugam, R. (2013). Odds to quicken reporting already delayed cases: AIDS incidences are illustrated, *International Journal of Nursing in Research*, 4(1), 1-13.
- Shanmugam, R. (2013). Is cancer recurrence postponed by a treatment? A new model answers, *American Medical Journal*, 4(1), 43-62.
- Shanmugam, R. (2013). Mosaic masonries to interpret diagnostic test results, *American Medical Journal*, 4(1), 12-20.
- Shanmugam, R. (2012). Booming medical tourism and economic indices, *International Journal of Research in Nursing*, 3(2), 38-47.
- Shanmugam, R. (2012). Intervened 2-tier Poisson distribution for understanding hospital site infectivity, *International Journal of Research in Nursing*, 3(1), 8-14.
- Shanmugam, R. (2012). Statistical modeling to assess drinking water crisis, *Environmental and Ecological Statistics*, 19, 1-12.
- Shanmugam, R. (2012). Spiral binomial and related distributions for obsession to abortion, *International Journal of Research in Nursing*, 3(1), 21-29.
- Shanmugam, R. (2012). Correlation between dispersion and mean to assess healthcare service efficiency, *American Journal of Biostatistics*, 2(2), 36-43.
- Furia, J., Willis, B., Curran, S. and Shanmugam, R. (2012). Meta-Analysis in contracture reduction of the lower extremity, *Journal of Bone and Joint Surgery*, page numbers are pending (also presented at the 2013 Annual Conference of the American College of Sports Medicine).

- Shanmugam, R. and Singh, J. (2012). Urgency biased beta distribution with application in drinking water data analysis, *International Journal of Statistics and Economics*, 9 (A12), 56-82.
- Shanmugam, R. (2011). Spinned Poisson distribution with health management application, *Healthcare Management Science*, 14 (4), 299-306
- Shanmugam, R. (2011). What else do epileptic data reveal?, *American Medical Journal* 2 (1), 13-28
- Shanmugam, R. (2011). Taylorized modified power series distributions with epileptic seizure incidence applications, *International Journal of Applied Mathematics and Statistics*, 7, A11, 27-41.
- Shanmugam, R. (2011). Is next twelve months period tumor recurrence free under restricted rate due to medication? A probabilistic warning, *Journal of Modern Applied Statistical Methods*, 10 (1), 329-336.
- Chakraborty, R. and Shanmugam, R. (2011). Influence of L2 proficiency on kinematic duration of single words: Real and novel word production by Bengali-English speakers, *International Journal of Speech Language Pathology*, 1, 1-13
- Shanmugam, R. and Radhakrishnan, R. (2011). Incidence jump rate reveals over/under dispersion in count data, *International Journal of Data Analysis and Information Systems*, 3, 1, 1-8
- Shanmugam, R. (2011). Correlation between dispersion and mean to assess healthcare service efficiency, *American Journal of Biostatistics*, 2(2), 36-43,
- Lopez, S., Perez, J., Willis, B. and Shanmugam, R. (2010). Plantar fasciopathy treated with dynamic splinting: a randomized controlled trial, *J of American Podiatric Medical Association*, 100(3), 161-165.
- Shanmugam, R. (2010). A diagnostic methodology for *hazy* data with “borderline” cases, *Journal of Medical Systems*, 34, 161-177. (The editor mentions that this article is a milestone in this topic.).
- Shanmugam, R. (2009). A tutorial of diagnostic methodology with 2 x 2 dementia data, *International Journal of Data Analysis Techniques and Strategies*, 2, 385-406.
- Berner, S.H., Willis, B. and Shanmugam, R. (2009). Pain from carpal tunnel syndrome reduced with dynamic splinting: A retrospective study of 156 patients, *Journal of Clinical Medicine and Research*, 1(2), 22-25.
- Shanmugam, R. (2009). Diabetic risks assessed via logistic regression, *International Journal of Ecological Economics and Statistics*, 14, 70-86.
- Shanmugam, R. (2009). Saturation level of Poisson over/under dispersion, *Journal of Mathematical Sciences: Advances and Applications*
- My article on At a crossroad of data envelopment and principal component analyses have been cited in an article by Liang, L., Li, Y. and Li, S. (2009) in *Experts Systems with Applications*, 36 (3), 5985-5899.
- Shanmugam, R., and Johnson, C. (2008). Letter to the editor: At a crossroad of data envelopment and principal component analyses. *Omega* 35(4), 351-64
- Shanmugam, R. (2008). Double anchored syllogisms for medical scenarios, *Journal of Statistics and Applications*, 3, 253-277.
- Shanmugam, R. and Johnson, C. (2007). At a crossroad of data envelopment and principal component analyses, *Omega*, 35(4), 351 – 64

- Shanmugam, R. (2007). Correlation between the sample mean and sample variance, in the *Journal of Modern Applied Statistical Methods*, 5, 458-463.
- Shanmugam, R., Anand, S., and Burke, G. (2007). Mining air pollution data to learn stroke incidence, *Model Assisted Statistics and Applications*, 2, 53-58.
- Hassan, A., Ahamad, P., and Shanmugam, R. (2007). Six sigma applications of unbiased versus size biased modified power series distributions in epileptic samples, *Journal of Applied Statistical Sciences*, 6, 236-253.
- Carey, D., Bae, S., Shanmugam, R., Bartolucci, A. and Singh, K. (2006) Assessing therapeutic equivalence of three proportions using weighted likelihood ratio and equivalence cube, [MODSIM03/Volume_04/C11/06](#).
- Shanmugam, R., Hassan, A. and Ahmad, P. (2006). Correlation between the number of epileptic and healthy children in family size that follows a size-biased modified power series distribution, *Journal of Modern Applied Statistical Methods*, 5, 458-463.
- Shanmugam, R. Langlois, A., and Brender, S. (2006). Paternal age and birth defect prevalence: Association of paternal age with prevalence of selected birth defects, Birth Defects Research (Part A), *Clinical and Molecular Teratology*, 79.
- Shanmugam, R., Johnson, C. and Cutter, G. (2006). Examining whether an epidemic is excessive, accepted to appear in *Journal of Statistics and Applications*, 1, 51-62.
- Shanmugam, R. (2005). Modeling web changes data re-catched during a spread of internet virus, in *Mathematical and Computer Modelling*, 42, 1175-1190.
- Singh, K., Peschell, K., Bae, S., Shanmugam, R., and Bartolucci, A. (2005). Therapeutic equivalence in survival data, International Conference on Simulation and Modeling, Bangkok, Thailand, Jan. 17-19, pages 280-288.
- Roberts, L., Johnson, C. Shanmugam, R., Malhotra, S., Zinkgraf, S., Young, M., Putnam, J., and Cameron, L. (2005). Computer simulation and six-sigma tools applied to process improvement in an emergency department, Annual Proceedings of Society for Health Systems, February 12-13, 2005, Dallas, Texas. (RP).
- Bartolucci, A., Singh, K. and Shanmugam, R. (2004). Empirical Bayesian analysis of the Poisson intervention and incidence parameters, Mathematics and Computers in Simulation, in MSSAN/IMACS 14th Biennial Conference on Modelling and Simulation, 64, 393-399.
- Peschell, K., Bae, S., Shanmugam, R., Bartolucci, A. and Singh, K. (2004). Therapeutic equivalence assessment (TEA). for exponential data, in *Advances and Applications in Statistics*. 4, 1-14.
- Shanmugam, R. (2004). Modeling catalyst's effect on (Health). Incidence rate, in *International Journal of Ecology and Development*, 2, 1-26.
- Johnson, C. J., Shanmugam, R., Roberts, L., Zinkgraf, S., Madrigal, M. Cameron, L., Flores, R. N., and Putnam, J. (2004). Linking lean healthcare to six sigma: An emergency department case study, Proceedings of the Institute of Industrial Engineers Annual Conference and Exhibition, Houston, Texas, May 18, 2004. (RP).
- Shanmugam, R., and Singh, J. (2003). Index of variation with illustration using molecular data, *Communications in Statistics*, 32, 509-517.
- Carey, D., Bae, S., Shanmugam, R., Bartolucci, A., and Singh, K. (2003). Assessing therapeutic equivalence of three proportions using weighted likelihood ratio and equivalence cube, *Statistical Modeling in Health and Biomedical Sciences*, edited by David Post, for Modeling and Simulation Society of Australia, 4, 1979-1983.

- Shanmugam, R., Bartolucci, A. and Singh, K. (2002). The analysis of neurological studies using extended exponential model, *Mathematical and Computers in Simulation*, 81-85.
- Shanmugam, R. (2001). Predicting a successful prevention of an epidemic, *Communications in Statistics*, 30, 93-103.
- Shanmugam, R. (2001). Product moment generating function technique and its applications to modified power series distributions, *Communications in Statistics*, 30, 2385-2392.
- Bartolucci, A., Shanmugam, R., and Singh, K. (2001). Development of the generalized geometric model with application to cardiovascular studies, *Systems Analysis Modeling and Simulation*, 41, 339-349.
- Shanmugam, R. and Singh, K. (2001). Testing of Poisson incidence rate restriction, *International Journal of Reliability and Applications*, 4, 263-268.
- Bartolucci, A., Singh, K. and Shanmugam, R. (2001). Empirical Bayesian analysis of the Poisson intervention and incidence parameters, Edited Proceedings of International Congress on Modeling and Simulation, Vol. 4: General Systems, edited by F. Ghassemi, D. White, S. Cuddy, and T. Nakanishi, 2023-2027.
- Shanmugam, R. (2000). Discussions 1: Fitting equations to sensory data, *Journals of Sensory Studies*, 15, 19-21.
- The results are cited by J. F. Maullent, (2005). A Report, Food Science Department, University of Arizona, Tucson.
- The results are cited by Angela Carlucci, (2005). A Report, Universita degit Studi Basilicata, Potenza.
- The results are cited by Javier Negten, (2005). A report, Universidad de Navarra, Espana.
- Shanmugam, R. (1999). Kullback-Leibler information and interval estimation, *Communications in Statistics*, 28(9), 2057-2063.
- Khan, S., Shanmugam, R., and Hoeschen, B. (1999). Injury, fatal, and property damage accident models for highway corridors, 70th Annual Meeting of the Transportation Research Board, Washington, D.C., paper number 99-1326, pp. 84-92. (RP).
- Shanmugam, R., Bartolucci, A. and Singh, K. (1999). Exponential model extended for neurological studies, *Epidemiology Health and Medical Research*, 2, edited by L. Oxley, F. Scrimgeour, and M. McAleer, published by the Modeling and Simulation Society of Australia Inc., pp. 507-511. (RP).
- Bartolucci, A., Shanmugam, R., and Singh, K. (1999). Geometric model generalized for cardiovascular studies, *Epidemiology Health and Medical Research*, 2, edited by L. Oxley, F. Scrimgeour, and M. McAleer, published by the Modeling and Simulation Society of Australia Inc., pp. 501-506.(RP).
- Shanmugam, R. (1998). Stochastic modeling of consumer's diminishing return, *Journal of Italian Statistical Society*, 4, 1- 10.
- Shanmugam, R. (1998). An index method of determining the sample size for normal population, *Communications in Statistics*, 27, 1001-1008. (MR: 99 c 62067 by I. Guttman).
- Chattamvelli, R. and Shanmugam, R. (1997). AALG 809: Computing the noncentral beta distribution function, *Journal of Royal Statistical Society (Series C: Applied Statistics)*, 46, 146-156.

- The results are extended by D. Benton and K. Krishnamoorthy (2003). Computing Discrete Mixtures of Continuous Distributions: Noncentral chi-square, noncentral t, and the distribution of the square of the sample multiple correlation coefficient, *Computational Statistics and Data Analysis*, 43, 249-267.
- The results are cited and extended by S. Huzurbazar (1999). Practical Saddlepoint Approximations, *American Statistician*, 53, 225-232. C/F.
- Shanmugam, R., Bartolucci, A., and Singh, K. (1997). Bayesian analysis of Poisson incidence rates under a medical intervention, in *Epidemiology, Health and Medical Research*, 1051-56. (RP).
- Shanmugam, R. (1996). Testing homogeneity in a search sample of moving objects, *Journal of Applied Statistical Science*, 3, 289-300. (MR: 62 F03, 62H11).
- Shanmugam, R. (1996). Effective sample size in length biased data, *Applied Statistical Science I*, 89-100. (MR: 97 k 62046). (RBC).
- Shanmugam, R. and Singh, J. (1995). A weighted logarithmic series model for consumer purchasing behavior, *Journal of Applied Statistical Science*, 2, 61-72.
- Shanmugam, R. (1995). Goodness-of-fit test for length-biased data with discussion on prevalence, sensitivity and specificity of length bias, *Journal of Statistical Planning and Inference*, 48, 277-290. (MR: 97 e : 62019).
- The results are cited by Navarro J, Ruiz JM and Del Aguila Y, (2003). How to detect biased sample?, *Biometrical Journal*, 45, 91-112.
- The results are cited by Navarro J, Ruiz JM and Del Aguila Y, (2001) Parametric estimation from weighted samples, *Biometrical Journal*, 43, 297-311.
- Shanmugam, R. (1995). Goodness of fit test and inferential procedure for multi-phased M/E/1 queuing data, *Journal of Applied Statistical Science*, 2, 297-309. (MR: 97f: 62032, Sotirin Loukas 62E10, 62F03).
- The results are extended by J. Navarro, J. Ruiz, and Y. Aguila (2001). Parametric Estimation from Weighted Samples, *Biometrical Journal*, 43, 297-311.
- Shanmugam, R. (1994). On fertility models, *Proceedings of the fifth International Conference on Applied Demography*, Bowling Green, Ohio, 65-75. .
- Chattamvelli, R. and Shanmugam, R. (1995). Efficient computation of noncentral distribution, *Communications in Statistics*, 24, 675-690.
- Shanmugam, R. (1995). Improved Correlation between $X + a$ and $1/X + a$, the *Egyptian Statistical Journal*, 39, 120-123.
- Taylor, J., Shanmugam, R., and Unprasert, P. (1995). State, space, time series modeling of the effect of feeding rate dissolved oxygen and successive feed consumption in channel catfish culture ponds, *Proceedings of the Twenty-Fifth Mississippi Water Resources Conference*, Jackson, edited by B. Jean Daniel, 181-189.
- Shanmugam, R., Gupta, R.C, and Tripathi, R.C. (1994). A goodness of fit test for left truncated modified power series distribution, *Journal of Applied Statistical Science*, 1, 179 -193. (MR: 95 K: 62041).
- Chattamvelli, R. and Shanmugam, R. (1994). An enhanced algorithm for noncentral t distribution, *Journal of Statistical Computation and Simulation*, 49, 77 - 83.
- The results are cited by Perakis M and Xekalaki E, (2003). On a comparison of the efficacy of various approximations of the critical values for tests on the process

capability indices CPL, CPU, and C-pk, *Communications in Statistics-Simulation and Computation*, 32, 1249-1264.

The results are cited by Nandi SB and Choudhury S, (2002). Series representation of doubly noncentral t distribution by the use of the Mellin integral transform, *Communications in Statistics*, 31, 2139-2149.

The results are cited by Tsionas EG, (2002). Bayesian inference in the noncentral student t- model, *Journal of Computational and Graphical Statistics*, 11, 208-221.

Shanmugam, R. (1994). Relative loss Bayesian estimation in econometrics, *Journal of the Institute of Economic Research*, 29, 1-9.

Shanmugam, R. (1993). Advocacy for automated statistical systems, *Journal of Total Quality Management*, 4, 71-77 (STMA V34 4790, QC and Appl. Stat. 1993, vol. 38, page 669).

The results are summarized in the *Quality Control and Applied Statistics Abstracts*, pages 669 - 671 under the division Expert Systems.

Shanmugam, R. (1993). Size biased incidence rate restricted Poissonness and its application in international terrorism, *Applications of Management Science*, 7, 41-49.

Shanmugam, R. (1992). An inferential procedure for the Poisson intervention parameter, *Biometrics* 48, 559-565.

The results are cited by Bartolucci et al (2004). Empirical Bayesian Analysis of the Poisson intervention and incidence parameters, *Mathematics and Computers in Simulations*, 64, 393-399.

The results are cited in Predicting successful prevention of an epidemic, *Communications in Statistics – Theory and Methods*, 30, 93-103.

The results are cited in Scollnick, DPM (1997). Inference concerning the size of the zero class from an incomplete Poisson sample, *Communications in Statistics*, 26, 221-236.

The results are cited in Scollnick, DPM (1995). Bayesian analysis of an intervened Poisson distribution, *Communications in Statistics*, 24, 735-754.

Shanmugam, R. (1992). Factions in Morris' quadratic variance natural exponential family of distributions and a lack of consensus in sample size determination, *Journal of Statistics and Probability Letters*, 15, 117-120.

Shanmugam, R. (1991). Testing guaranteed exponentiality, *Naval Research Logistics*, 38, 877-892. (MR: 92 h; 62160).

Shanmugam, R. (1991). Incidence rate restricted Poissonness, *Sankhya (Series B)*. 53, 191-201. (MR: 93 e; 62088).

Shanmugam, R. (1991). Significance testing of size bias in income data, *Journal of Quantitative Economics*, 7, 187-294 (special issue published in honor of Professor C.R. Rao).

Shanmugam, R. (1991). Comments on the computational conveniences discussed in the articles by Evans, Geweke, Muller and Kass-Tierney-Kadane, *Contemporary Mathematics*, edited by Nancy Flournoy: 115, 261-269. (RBC).

Shanmugam, R. (1991). Quantifying prior opinion in length biased linear mean exponential family. *Bayesian Statistics and Econometrics*, Lecture Notes in Statistics, No.75, edited by Prem Goel and N.S.Iyengar. New York: Springer Verlag: 389-395. (MR: 93e; 62002). (RBC).

- Edgeman, R. and Shanmugam, R. (1990). Linear regression analysis for inverse Gaussian processes: An illustration, *Proceedings of The Decision Sciences Institute*, 1968-171. (RP).
- Shanmugam, R. (1989). Asymptotic homogeneity tests for mean exponential family distributions, *Journal of Statistical Planning and Inference*, 23, 227-241 (MR: 1991 b; 62037 by J. A. Melamed). (MR: 91 e; 62037).
- The results are cited by Osuji GO and Madu WC, (1997). Regulation of peanut glutamate dehydrogenase by methionine sulphoximine, *Psychochemistry*, 46, 817-825.
- The results are cited by Siqueira J. O, Nair MG, Hammerschmidt R (1991). Significance of phenolic-compounds in plant soil microbial systems, *Critical Reviews in Plant Sciences*, 10, 63-121.
- Shanmugam, R. and Richards, D. (1989). On estimating the mean time to failure with unknown censoring, *IEEE Transactions on Reliability*, 38, 343-348.
- The results are cited by Wang HZ and Pham, H. (1997). Survey of reliability and availability evaluation of complex networks using Monte Carlo techniques, *Microelectronics and Reliability*, 37, 187-209.
- The results are cited by Schabe, H. (1994). Nonparametric estimation of mean time to failure with unknown stochastic censoring, *Microelectronics and Reliability*, 34, 1291-1299.
- Shanmugam, R. (1989). Testing the homogeneity of a random sample from Pareto distribution, *Biometrie Praximetrie* 29: 75-91.
- Shanmugam, R., and Richards, D. (1989). Discrete statistical models for survival studies with transitional failure rate, *Transactions of the Western Regional Conference on Productivity and Pride*, 201A-201J. (RP).
- Shanmugam, R. (1988). Some generalized exponential and logarithmic polynomials with statistical application, *International Journal of Mathematical Education in Science and Technology*, 19, 659-669 (MR: 1989 k; 62020 by John Keith Ord).
- Shanmugam, R. (1988). Distribution of the sum of independent positive generalized discrete random variable, *Portugalica Mathematica*, 45, 69-73 (MR: 1989 m;60032 by Dominik Szynzl).
- Shanmugam, R., and Arnold, B. (1988). Characterizations based on conditional distributions given the minimum value in the sample, *Sankhya (Series A)*. 50, 452-459 (MR: 1991 e; 62038). (MR: 91e; 62038).
- Shanmugam, R., and Nevalainen, K. (1988). Analyzing environmental time series: A brief review and Finnish case study, *Statistical Journal of the United Nations*, 5, 315-338.
- Shanmugam, R. (1988). A goodness of fit for the LaGrangian logarithmic series distribution, *Journal of Statistical Research*, 22, 31-36.
- The results are cited and extended by P. E. Greenwood and M. S. Nikulin (1996). *AA Guide to Chi-Squared Testing*, @ pages 187 and 272. C/F.
- Shanmugam, R. (1987). Estimating the fraction of the population in an income bracket using Pareto distribution, *Brazilian Journal of Probability and Statistics*, 1, 139-156 (MR: 1989 page 1055).

- Shanmugam, R. (1986). A characterization of positive binomial distribution and its goodness of fit application, *Statistics*, 17, 33-40 (MR: 1987 j; 62029 by Mir Maswood Ali).
- Shanmugam, R. (1985). An intervened Poisson distribution and its medical applications, *Biometrics*, 41, 1025-1030 (MR: 1987 f; 62032).
- The results are cited by Piperigou, V.E., Papageorgiou, H (2003). On truncated bivariate discrete distributions: A unified treatment, *Metrika*, 58, 221-233.
- The results are cited by Shanmugam, R. (2001). Predicting successful prevention of an epidemic, *Communications in Statistics*, 30, 93-103.
- The results are cited by Dhanvanthan, P (2000). Estimation of the parameters of compound intervened Poisson distribution, *Biometrical Journal*, 42, 315-320.
- The results are cited by B. S. Everitt (1999). *The Cambridge Dictionary of Statistics*, page 167. C/F.
- The results are extended by P. Dhanavanthan (1998). Compound intervened Poisson distribution, *Biometrical Journal*, 40, 641-646. C/F.
- The results are cited by Scolnick, DPM (1997). Inference concerning the size of the zero class from an incomplete Poisson sample, *Communications in Statistics*, 26, 221-236.
- The results are extended by David P. Scollnik (1995). Bayesian analysis of an intervened Poisson distribution, *Communications in Statistics*, 24, 735-754. C/F.
- The results are cited by Huang, ML and Fung, KY (1993). D – Distribution and its applications, *Statistical Papers*, 34, 143-159.
- The results are cited by Shanmugam, R. (1992). An inferential procedure for the Poisson intervention parameter, *Biometrics*, 48, 559-565.
- The results are extended by S. Kakoty and B. Chakraborty (1990). Cumulative sum control charts for the intervened Poisson distribution, *IAPQR Transactions*, vol. 15, 11-20. C/F.
- The results are cited and extended by Mark Finkelstein and Howard G. Tucker (1989). A law of small numbers for a mutation process, *Mathematical Biosciences*, 95, 85-98. C/F.
- The results are cited and extended by M-L. Huang and K. Y. Fung (1989). Intervened Truncated Poisson Distribution, *Sankhya*, 51, 302-310. C/F.
- The results are cited by Huang, ML, Fung KY (1989). R-Distribution and its Applications, *Communications in Statistics*, 18, 99-119.
- The results are cited by Huang ML, Fung, KY (1989). A more generalized Stirling Distribution of the 2nd kind, *Communications in Statistics*, 17, 4337-4356.
- The results are cited and extended by Franz Streit (1987). Testing Effective Intervention, *Biometrics*, 43, 999-1000. C/F.
- Shanmugam, R., and Singh, J. (1984). A characterization of the logarithmic series distribution and its application, *Communication in Statistics*, 13, 865-875 (MR: 1986 a; 62019 by R.M. Korwar and Ramesh C. Gupta 62E10, 62F03).
- The results are cited by Charalambides and Singh, J. (1988). A review of Stirling numbers, their generalizations and statistical applications, *Communications in Statistics*, 17, 2533-2595.

- Shanmugam, R., Singh, J. (1984). On comparing three estimators of the Poisson probabilities, *Estadistica, Journal of the Inter-American Statistical Society*, 36, 126-127 (MR 1986 a; 62020 by R.C. Gupta).
- Shanmugam, R. (1984). On central versus factorial moments, *Journal of the South African Statistical Society*, 18, pp. 97-110 (MR: 1986 d; 62032).
- The results are cited and extended by Samuel Kotz and Norman L. Johnson (1996). *Encyclopedia of Statistics*, volume 8, pages 427. They recognized the result and named it after my name as Shanmugam's Number. C/F.
- The results are cited by Bartolucci et al, (2004). Empirical Bayesian analysis of the Poisson intervention and incidence parameters, *Mathematics and Computers in Simulation*, 64, 393-399.
- The results are cited by Dhanavanthan P, (2000). Estimation of the parameters of compound intervened Poisson distribution, *Biometrical Journal*, 42, 315-320.
- The results are cited by Dhanavanthan P, (2000). Compound intervened Poisson distribution, *Biometrical Journal*, 40, 641-646.
- The results are cited by Sibuya M and Nishimura K, (1997). Prediction of record breaking, *Statistica Sinica*, 7, 893-906.
- The results are cited by Koutras M, (1990). 2 classes of numbers appearing in the convolution of binomial truncated Poisson and Poisson truncated binomial random variables, *Fibonacci Quarterly*, 28, 321-333.
- The results are cited by Charalambides and Singh, J. (1988). A review of Stirling numbers, their generalizations and statistical applications, *Communications in Statistics*, 17, 2533-2595.
- The results are cited by Ch. A. Charalambides (2002). *Enumerative Combinatorics*, pages 321 and 599. C/F.
- The results are cited and extended by Kazue Nishimura and Mahakki Sibuya, 1997, *Communications in Statistics*, 26 (7), 1727-1744. C/F.
- Shanmugam, R. (1984). A test for the homogeneity when the sample is a Lagrangian positive Poisson distribution, *Communication in Statistics*, 13, pp. 3243-3250 (MR: 1986 i;6203 5).
- The results are cited by Felix Famoye (1993). Testing homogeneity: The generalized Poisson distribution, *Communications in Statistics*, 22, 705-715. C/F.
- Shanmugam, R. (1982). A characterization of the negative binomial distribution truncated at zero, *Journal of the Korean Statistical Society*, 11, pp. 131-138 (MR: 1984 a; 62018 by R.M. Korwar).
- Shanmugam, R., and Singh, J. (1981). Some bivariate probability models applicable to traffic accidents and fatalities data, *Statistical Distributions in Scientific Work*, Vol. 4:95-103 (MR: 1983 h; 62005).
- Shanmugam, R., and Singh, J. (1981). On the Stirling distribution of the first kind, *Statistical Distributions in Scientific Work*, 6,181-187 (MR: 1983 h; 62005).
- The results are cited and extended by Kazuo Nishimura and Masaaki Sibuya (1997). Extended family of discrete probability distributions, *Communications in Statistics*, 26, 1727-1744. C/F.
- The results are cited by Norman L. Johnson and S. Kotz (1982). Developments in discrete distributions during 1969-1980, *International Statistical Review*, 50, 71-101. C/F.

The results are cited by Bent Jorgensen (1986). Some properties of exponential dispersion models, *Scandinavian Journal of Statistics*, 13, 187-197. C/F.

The results are cited by Norman L. Johnson, Samuel Kotz, and A. W. Kemp (1993). *Univariate Discrete Distributions*, Jon Wiley Press, New York. Pages 301 and 534. C/F.

The results are cited by Samuel Kotz and Norman L. Johnson (1993). *Encyclopedia of Statistics*, pages 775 - 776. C/F.

b. Non-Refereed Journal Articles:

Gonzales, M.D., Manning, R.K., Johnson, J., and Shanmugam, R. (2007). A comparison of differing levels of experience on vocal performance in speech language pathology students and clinicians: A pilot study.

3. Conference Proceedings

a. Refereed Conference Proceedings:

Shanmugam, R. (2015) Gaussian nucleus entropy and use in generated, shipped, and received waste disposal policies, *Refereed Proceedings of International Conference on Recent Innovation in Engineering & Technology, 2015*, (page numbers are pending).

Shanmugam, R. (2014). C (alpha) method to check daunting over/under variances to understand times to aftershocks since a major earthquake, accepted to appear in the *refereed Proceedings of 2014 International Conference on Computer Science and Engineering, Chennai, India, Computer, Electronics, Electrical, and Communication, 59, 190-193.*

Furia, J., Willis, B., Curran, S. and Shanmugam, R. (2013). Meta-analysis in contracture reduction, of the lower extremity, *refereed annual conference proceedings, of the American College of Sports Medicine.*

b. Non-Refereed Conference Proceedings:

4. Abstracts:

5. Reports:

6. Book Reviews:

Shanmugam, R. (2014). Basics statistics books are reviewed, *Journal of Statistical Computation and Simulation*, 84, 930.

Shanmugam, R. (2014). Bayesian books are reviewed, *Journal of Statistical Computation and Simulation*, 84, 1154-1155.

Shanmugam, R. (2014). Excellent categorical data analysis books are reviewed, *Journal of Statistical Computation and Simulation*, 84, 2071-2072.

Shanmugam, R. (2014). Biostatistics books are reviewed, *Journal of Statistical Computation and Simulation*, 84, 1841-1842.

- Shanmugam, R. (2014). Computational statistics books are reviewed, *Journal of Statistical Computation and Simulation*, 84, 2522-2523.
- Shanmugam, R. (2013). Operations research books are reviewed, *Journal of Statistical Computation and Simulation*, 83, 1188-1189.
- Shanmugam, R. (2013). Books for statisticians working in business, finance and insurance, *Journal of Statistical Computation and Simulation*, 83, 1385-1386.
- Shanmugam, R. (2011). [Multivariate statistics books are reviewed]. *Journal of Statistical Computation and Simulation*, 81,123-124.
- Shanmugam, R. (2011). [Books on optimizations are reviewed]. *Journal of Statistical Computation and Simulation*, 81,259-260.
- Shanmugam, R. (2010). [Review of a unique book on environmental statistics is reviewed]. *Journal of Statistical Computation and Simulation*, 80,119.
- Shanmugam, R. (2010). [Review of Books on general linear models are reviewed]. *Journal of Statistical Computation and Simulation*, 80,237-239.
- Shanmugam, R. (2010). [Review of a book on frontiers of statistics errors is reviewed]. *Journal of Statistical Computation and Simulation*, 80,363.
- Shanmugam, R. (2010). [Review of a unique book on long memory time series is reviewed]. *Journal of Statistical Computation and Simulation*, 80,475.
- Shanmugam, R. (2010). [Review of a classic book on information theory is reviewed]. *Journal of Statistical Computation and Simulation*, 80,593.
- Shanmugam, R. (2010). [Review of Books on probability ideas are reviewed]. *Journal of Statistical Computation and Simulation*, 80,707-711.
- Shanmugam, R. (2010). [Review of Books on longitudinal and latent growth are reviewed]. *Journal of Statistical Computation and Simulation*, 80,823-824.
- Shanmugam, R. (2010). [Review of Books on risk analysis are reviewed]. *Journal of Statistical Computation and Simulation*, 80,949-950.
- Shanmugam, R. (2010). [Review of a unique book on response surface methodology is reviewed]. *Journal of Statistical Computation and Simulation*, 80, 1069.
- Shanmugam, R. (2010). [Review of statistical inference books are reviewed]. *Journal of Statistical Computation and Simulation*, 80, 1181-1183.
- Shanmugam, R. (2009). [Review of *Encyclopedia of genetics, proteomics and bioinformatics*]. *Journal of Statistical Computation and Simulation*, 79, 1169-1172.
- Shanmugam, R. (2009). [Review of *Encyclopedia of biostatistics*]. *Journal of Statistical Computation and Simulation*, 79, 1275-1276.
- Shanmugam, R. (2009). [Review of *Encyclopedia of statistical sciences*]. *Journal of Statistical Computation and Simulation*, 79, 1389-1392.
- Shanmugam, R. (2009). [Review of *Software and hardware reliability books*]. *Journal of Statistical Computation and Simulation*, 79, 1490-1494.
- Shanmugam, R. (2009). [Review of *Econometrics and marketing*]. *Journal of Statistical Computation and Simulation*, 79, 321-322.
- Shanmugam, R. (2009). [Review of *Bioinformatics*]. *Journal of Statistical Computation and Simulation*, 79, 1169-1172.
- Shanmugam, R. (2009). [Review of *Tomographic*]. *Journal of Statistical Computation and Simulation*, 79, 1063-1066.
- Shanmugam, R. (2009). [Review of *Biostatistics*]. *Journal of Statistical Computation and Simulation*, 79, 1119-1123.

- Shanmugam, R. (2009). [Review of *Informatics*]. *Journal of Statistical Computation and Simulation*, 79, 855-858.
- Shanmugam, R. (2009). [Review of *SAS, SPSS, and computing*]. *Journal of Statistical Computation and Simulation*, 79, 747-750.
- Shanmugam, R. (2009). [Review of *Common statistics errors*]. *Journal of Statistical Computation and Simulation*, 79, 427.
- Shanmugam, R. (2008). [Review of *Data mining*]. *Journal of Statistical Computation and Simulation*, 79, 107-110.
- Shanmugam, R. (2008). [Review of *Bioinformatics*]. *Journal of Statistical Computation and Simulation*, 79, 959-964.
- Shanmugam, R. (2008). [Review of *Tomographic imaging*]. *Journal of Statistical Computation and Simulation*, 79, 1063-1066.
- Shanmugam, R. (2008). [Review of *Econometrics and marketing*]. *Journal of Statistical Computation and Simulation*, 79, 213-214.
- Shanmugam, R. (2008). [Review of *SAS, SPSS, and computing*]. *Journal of Statistical Computation and Simulation*, 78, 869-872.
- Shanmugam, R. (2008). [Review of *Diagnostic methodology*]. *Journal of Statistical Computation and Simulation*, 78, 967-968.
- Shanmugam, R. (2007). [Review of *Tremendously thought provoking biostatistics, Epidemiology and clinical trials*]. *Journal of Statistical Computation and Simulation*, 77, 527-530.
- Shanmugam, R. (2007). [Review of *Admirable multivariate statistics*]. *Journal of Statistical Computation and Simulation*, 77, 435-441.
- Shanmugam, R. (2007). [Review of *Best Bayesian statistics books*]. *Journal of Statistical Computation and Simulation*, 77, 89-93.
- Shanmugam, R. (2007). [Review of *Design and analysis*]. *Journal of Statistical Computation and Simulation*, 77, 185-188.
- Shanmugam, R. (2007). [Review of *Outstanding psychometric books*]. *Journal of Statistical Computation and Simulation*, 77, 625-628.
- Shanmugam, R. (2007). [Review of *Biometrics books for statisticians*]. *Journal of Statistical Computation and Simulation*, 77, 359-364.
- Shanmugam, R. (2007). [Review of *Three volumes of Encyclopedia of actuarial science*]. *Journal of Statistical Computation and Simulation*, 77, 271-272.
- Shanmugam, R. (2007). [Review of *Information theory*]. *Journal of Statistical Computation and Simulation*, 77, 273-275.
- Shanmugam, R. (2006). [Review of collection of classic books for *Multivariate data analysis*]. *Journal of Statistical Computation and Simulation*, 76, 267-278.
- Shanmugam, R. (2006). [Review of *Software SAS, SPSS, and internet outsourcing*]. *Journal of Statistical Computation and Simulation*, 76, 1107-1113.
- Shanmugam, R. (2006). [Review of *Design and analysis books*]. *Journal of Statistical Computation and Simulation*, 77, 185-188.
- Shanmugam, R. (2006). [Review of multiple view points of *Multivariate Books*]. *Journal of Statistical Computation and Simulation*, 76, 561-565.
- Shanmugam, R. (2006). [Review of *Likelihood and asymptotic statistics*]. *Journal of Statistical Computation and Simulation*, 76, 1031-1033.

- Shanmugam, R. (2006). [Review of Sensational books about six sigma related concepts and applications] *Journal of Statistical Computation and Simulation*, 76, 655-659.
- Shanmugam, R. (2006). [Review of *Excellent dictionaries and handbooks useful to statisticians*]. *Journal of Statistical Computation and Simulation*, 76, 181-184.
- Shanmugam, R. (2006). [Review of *Regression*]. *Journal of Statistical Computation and Simulation*, 76, 83-91.
- Shanmugam, R. (2006). [Review of *Philosophy or foundations of statistical concepts*]. *Journal of Statistical Computation and Simulation*, 76, 839-845.
- Shanmugam, R. (2006). [Review of *Time series and/or spatial data analysis*]. *Journal of Statistical Computation and Simulation*, 76, 935-940.
- Shanmugam, R. (2006). [Review of *Statistical distributions and probability theories*]. *Journal of Statistical Computation and Simulation*, 76, 741-753.
- Shanmugam, R. (2005). [Review of Reliable books about *Reliability and related concepts*]. *Journal of Statistical Computation and Simulation*, 75, 497-500.
- Shanmugam, R. (2005). [Review of exciting books about *Categorized data analysis*]. *Journal of Statistical Computation and Simulation*, 75, 853-855.
- Shanmugam, R. (2005). [Review of *Data mining and statistical computations*]. *Journal of Statistical Computation and Simulation*, 75, 935 – 939.
- Shanmugam, R. (2005). [Review of *Statistical power analysis and related ideas*]. *Journal of Statistical Computation and Simulation*, 75, 1019-1020.
- Shanmugam, R. (2005). [Review of *Regression and associated special topics*]. *Journal of Statistical Computation and Simulation*, 75, 589-593.
- Shanmugam, R. (2005). [Review of Allied topics to statistics]. *Journal of Statistical Computation and Simulation*, 75, 679-685.
- Shanmugam, R. (2005). [Review of five Advanced biostatistics and statistical genetics books]. *Journal of Statistical Computation and Simulation*, 75, 761-769.
- Shanmugam, R. (2005). [Review of Quantifying and utilizing information]. *Journal of Statistical Computation and Simulation*, 75, 155-157.
- Shanmugam, R. (2005). [Review of two *Operations research books with statistical thoughts*]. *Journal of Statistical Computation and Simulation*, 75, 313-314.
- Shanmugam, R. (2005). [Review of *Statistics and biomathematics books with health applications*]. *Journal of Statistical Computation and Simulation*, 75, 307-311.
- Shanmugam, R. (2005). [Review of excellent books on *Bioinformatics with statistical thoughts*]. *Journal of Statistical Computation and Simulation*, 75, 75-78
- Shanmugam, R. (2004). [Review of *DNA microarrays and gene expression: From experiments to data analysis and modeling*]. *Journal of Statistical Computation and Simulation*, 74, 75-76.
- Shanmugam, R. (2004). [Review of four books on *Statistical theory: Reviewed, compared, and contrasted*]. *Journal of Statistical Computation and Simulation*, 74, 853-854.
- Shanmugam, R. (2004). [Review of *An introduction to statistical modeling of extreme values*]. *Journal of Statistical Computation and Simulation*, 74, 851.
- Shanmugam, R. (2004). [Review of *Statistics for psychologists: An intermediate course*]. *Journal of Statistical Computation and Simulation*, 74, 77.

- Shanmugam, R. (2004). [Review of *Monte Carlo strategies in scientific computing*]. *Journal of Statistical Computation and Simulation*, 74, 621.
- Shanmugam, R. (2004). [Review of *Subjective and objective Bayesian statistics: Principles, models, and applications*]. *Journal of Statistical Computation and Simulation*, 74, 233.
- Shanmugam, R. (2004). [Review of *Biostatistics books for clinical research: Reviewed and contrasted*]. *Journal of Statistical Computation and Simulation*, 74, 387-390.
- Shanmugam, R. (2004). [Review of *Encyclopedia of pharmaceutical statistics*]. *Journal of Statistical Computation and Simulation*, 74, 923.
- Shanmugam, R. (2004). [Review of two books on *Geometry in statistics*]. *Journal of Statistical Computation and Simulation*, 74, 925-926.
- Shanmugam, R. (2004). [Review of excellent books about *Bioinformatics: Reviewed and contrasted*]. *Journal of Statistical Computation and Simulation*, 74, 697-700.
- Shanmugam, R. (2004). [Review of *Crossover trials in clinical research*]. *Journal of Statistical Computation and Simulation*, 74, 623.
- Shanmugam, R. (2004). [Review of *Bayesian survival analysis*, by Ibrahim, I. G. Hui, M. and Sinha, D.]. *Journal of Statistical Computation and Simulation*, 74, 777.
- Shanmugam, R. (2004). [Review of *Statistical analysis with missing data*, by Little, J. A. and Rubin, D. B]. *Journal of Statistical Computation and Simulation*, 74, 543-545.
- Shanmugam, R. (2004). [Review of *Methods for meta analysis in medical research*, by Sutton, A. J. et al]. *Journal of Statistical Computation and Simulation*, 74, 545-546.
- Shanmugam, R. (2004). [Review of *Subjective and objective bayesian statistics: Principles and applications*, by Press, J.]. *Journal of Statistical Computation and Simulation*, 74, 233.
- Shanmugam, R. (2004). [Review of *Categorical data analysis*, by Agresti, A.]. *Journal of Statistical Computation and Simulation*, 74, 155.
- Shanmugam, R. (2004). [Review of *Statistics for psychologists: An intermediate course*, by Everitt, B.]. *Journal of Statistical Computation and Simulation*, 74, 77.
- Shanmugam, R. (2004). [Review of six books and software on *Data mining: Reviewed, compared, and contrasted*]. *Journal of Statistical Computation and Simulation*, 74, 307-312.
- Shanmugam, R. (2003). [Review of *DNA microarrays and gene expression: From experiments to data analysis and modeling*, by Baldi, P. and Hatfield, G.W.]. *Journal of Statistical Computation and Simulation*, 73, 45-76.
- Shanmugam, R. (2003). [Review of *Case studies in reliability and maintenance*, edited by Blischke, W., and Murthy]. *Journal of Statistical Computation and Simulation*, 73, 695.
- Shanmugam, R. (2003). [Review of *Data envelopment analysis: A comprehensive text with models, applications, references, and DEA-solver*, by Cooper, W.W., Seiford, L.M. and Tone, K.]. *Journal of Statistical Computation and Simulation*, 73, 849-851.
- Shanmugam, R. (2003). [Review of *Biostatistical genetics and genetic epidemiology*, edited by Elston, R. Olson, J. and Palmer, L.]. *Journal of Statistical Computation and Simulation*.
- Shanmugam, R. (2003). [Review of *Encyclopedia of environmetrics* Vol. 2, edited by. ElShaarawi, E.H. and Piegorisch, W.]. *Journal of Statistical Computation and Simulation*, 73, 465-466.

- Shanmugam, R.(2003). [Review of A package of four books on Structural equations modeling: (1). *Modeling intraindividual variability with repeated measure and applications*, edited by Moskowitz, D. and Hershberger, S. (2). *New developments and techniques in structural equation modeling*, edited by Marcoulides, G. and Schumacker, R. (3). *Structural equation modeling with AMOS: Basic concepts, applications, and programming*, by Byrne, B. (4). *Advanced structural equation modeling: Issues and techniques*, by Marcoulides, G. and Schumacker, E.]. *Journal of Statistical Computation and Simulation*, 73, 387-388.
- Shanmugam, R.(2003). [Review of *Statistical models and methods for lifetime data*, by Lawless, J.]. *Journal of Statistical Computation and Simulation*, 73, 773-774.
- Shanmugam, R.(2003). [Review of *Hierarchical linear models: Applications and data analysis methods*, by Raudenbush, S.W. and Bryk, A.S.]. *Statistical Methods in Medical Research*.
- Shanmugam, R. (2002). [Review of *Morphometric tools for landmark data* by Bookstein, F.L.]. *Journal of Statistical Computation and Simulation*, 2002, 72, 99-100.
- Shanmugam, R. (2002). [Review of *Finite mixture models*, by McLachlan, G. and Peel, D.]. *Technometrics*, 3.
- Shanmugam, R. (2002). [Review of *Analysis of variance in statistical image processing*, by Kurz, L. and Benteftofa, M.H.]. *Journal of Statistical Computation and Simulation*, 72, 597-598.
- Shanmugam, R. (2002). [Review of *Applications of differential geometry to econometrics*, by Marriott, P. and Salmon, M.]. *Journal of Statistical Computation and Simulation*, 72, 261.
- Shanmugam, R. (2002). [Review of *Applied statistics in the pharmaceutical industry with case studies using S – Plus*, by Millard, S. and Krause, A.]. *Computational Statistics*.
- Shanmugam, R. (2002). [Review of *Bayesian methods: An analysis for statisticians and interdisciplinary researchers*, by Leonard, T. and Hsu, J.]. *Journal of Computation and Simulation*, 72, 355.
- Shanmugam, R. (2002). [Review of *Clinical applications of artificial neural networks*, by Dybowski, R. and Grant, J.]. *Journal of Statistical Computation and Simulation*, 72, 518.
- Shanmugam, R. (2002). [Review of *Handbook of statistical genetics*, by Balding, D. Bishop, M. and Cannings, C.]. *Computational Statistics*.
- Shanmugam, R. (2002). [Review of *Image processing and data analysis*, by Stark, J. Murtagh, F. and Bijaoui, A.]. *Journal of Statistical Computation and Simulation*, 72(6)., 517-518.
- Shanmugam, R. (2002). [Review of *Statistical methods in bioinformatics: An introduction*, by Ewens, W. and Grant, G.]. *Computational Statistics*.
- Shanmugam, R. (2002). [Review of *Causality: Models, reasoning, and inference*, by Pearl, J.]. *Journal of Statistical Computation and Simulation*, 72, 777-778.
- Shanmugam, R. (2002). [Review of *A critique of dependence concepts* by Joe, H.]. *Journal of Mathematical Psychology*, 2002, 46, 110-114.

- Shanmugam, R. (2002). [Review of *Biostatistical genetics and genetic epidemiology*, by Elston, R., Olson, J. and Palmer, L.]. *Journal of Statistical Computation and Simulation*, 543-544.
- Shanmugam, R. (2002). [Review of A package of four edited books on *Structural equations modeling*]. *Journal of Statistical Computation and Simulation*, 1-2.
- Shanmugam, R. (2002). [Review of *Bayesian methods: An analysis for statisticians and interdisciplinary researchers*, by Leonard, T. and Hsu, J.]. *Journal of Statistical Computation and Simulation*, 72, 355).
- Shanmugam, R. (2001). [Review of *Regional frequency analysis*, by Hosking, J.M.B. and Wallis, R.J.]. *Journal of Statistical Computation and Simulation*, 2001.267-268.
- Shanmugam, R. (2001). [Review of *Regional frequency analysis: An approach based on L- Moments* Hosking, J.M.B. and Wallis, R.J.]. *Journal of Statistical Computation and Simulation*, 267-268.
- Shanmugam, R. (2001). [Review of *Gaussian and non Gaussian linear time series and random fields*, by Rosenblatt]. *Econometrics*.
- Shanmugam, R. (1998). [Review of Introduction to statistical quality control, by Montgomery, D. C.]. *Journal of Applied Statistics*, 25, 717.
- Shanmugam, R. (2001). [Review of *The analysis of sports, causality, modeling parallels between sports, gambling, and financial markets*]. *Econometrics*.
- Shanmugam, R. (2001). [Review of *Regression analysis of count data* by Cameron, A. C. and Trivedi, P. K.]. *Medical Decision Making*, 24, 158-160.
- Shanmugam, R. (1998). [Review of *Parametric statistical inference* by Lindsey, J. K.]. *Technometrics*, 40, 161.
- Shanmugam, R. (1998). [Review of *Nonparametric methods for quantitative analysis* by Gibbons, J. D.]. *Journal of Official Statistics*, 14, 331-332.
- Shanmugam, R. (1998). [Review of *Time series analysis: Non stationary and noninvertible distribution theory*, by Tanaka, K.]. *Journal of Applied Statistics*, 25, 719.
- Shanmugam, R. (1998). [Review of *Time series analysis nonstationary and noninvertible distribution theory*]. *Journal of Applied Statistics*, 25, 719.
- Shanmugam, R. (1998). [Review of *Advances in biometry*, edited by Armitage, P and David, A.H.]. *Journal of Applied Statistics*, 25, 720.
- Shanmugam, R. (1997). [Review of Multivariate analysis, part 2: Classification, covariance structures, and repeated measurements, *technometrics*]. 39, 101, 101.
- Shanmugam, R. (1997). [Review of *Distributions in the physical and engineering sciences* by Saichev, A.L., and Woyczynski, W.A.]. *Technometrics*, 39, 8, 431.
- Shanmugam, R. (1997). Introduction to Statistical Quality Control, by D. Montgomery, *Journal of Applied Statistics*.
- Shanmugam, R. (1997). [Review of *Graphing statistics and data*, by Wallgren et al]. *Statistics in Medicine*.
- Shanmugam, R. (1997). [Review of *Introduction to time series*, by Brockwell, P.J., and Davies, R.A.]. *Technometrics*, 39, 426.
- Shanmugam, R. (1997). [Review of *The exponential distribution: Theory, methods and applications*, by Balakrishnan, N. and Basu, A.]. *Journal of Applied Statistics*.
- Shanmugam, R. (1997). [Review of *Asymptotic efficiency of nonparametric tests*]. *SIAM rReview*, 39, 162-163.

- Shanmugam, R. (1996). [Review of *Straight talk on designing experiments: An introductory design of experiments reference handbook* by Launsby, R. and Weese, D.L.]. *Quality Progress*.
- Shanmugam, R. (1996). [Review of *Econometrics of information and efficiency* by Sengupta, J.K.]. *Journal of Royal Statistical Society (Series C: Statistician)*, 45, 290-291, 1996.
- Shanmugam, R. (1996). [Review of *Jackknife and bootstrap* by Shao, J. and Dongsheng, T.]. *Journal of Quality Technology*, 28, 484-485, 1996.
- Shanmugam, R. (1996). [Review of *Measurement error in nonlinear models* by Carroll, R.D., Ruppert, D., and Stefanski, L.A.]. *Journal of Quality Technology*, 28, 485, 1996
- Shanmugam, R. (1996). [Review of *Asymptotic efficiency of nonparametric tests* by Nikitin, Y.]. *SIAM Review*, 37, 21-22.
- Shanmugam, R. (1995). [Review of *Making machine mimic human and/or animal intelligence, a review of artificial neural networks* by White, H.]. *Journal of Mathematical Psychology*, 39,403-404, 1995.
- Shanmugam, R. (1995). [Review of *Applied engineering statistics* by Bethea R.M. and Rhinehart, R.]. *Journal of Quality Technology*, 27, 172-173, 1995.
- Shanmugam, R. (1995). [Review of *Multivariate analysis part I: Distributions, ordination, and inference* by. Krazanowski, W.J. and. Marriott, F.H.C.]. *Technometrics*, 37, 351, 1995.
- Shanmugam, R. (1995). [Review of *Econometrics of information and efficiency* by Sengupta, J.K.]. *The Statistician*, 44, 290-191.
- Shanmugam, R. (1995). [Review of *Artificial neural networks: Approximation and learning theory*, by White, H.]. *Journal of Mathematical Psychology*, 39, 403-404.
- Shanmugam, R. (1995). [Review of *A guide to econometrics* by Kennedy, P.]. *Statistics and Computing*.
- Shanmugam, R. (1995). [Review of *SPC for the rest of us: A personal path to statistical process control* by Pitt, H.]. *Quality Progress*.
- Shanmugam, R. (1994). [Review of *Practice of operational research*]. *Journal of Management Studies*, 32, 3-4, 1994.
- Shanmugam, R. (1994). [Review of *Econometrics of information and efficiency*, by Sengupta, J.K.]. *The Statistician*, 290-291.
- Shanmugam, R. (1994). [Review of *Statistics in practice*, by Blaisdell]. *American Statistician*.
- Shanmugam, R. (1994). [Review of *Foundation of probability and statistics*, by Rinaman]. *American Statistician*.
- Shanmugam, R. (1993). [Review of *Statistics in medicine*, by Dunstan, F. and Pickles,J.]. *Statistics in Medicine*, 12, 1272-73, 1993.
- Shanmugam, R. (1993). [Review of *Errors, bias and uncertainties in astronomy*, by Jascheck, C. and Murtagh, F.]. *Journal of Royal Statistical Society (Series C: Statistician)*, 42, 80-82, 1993.
- Shanmugam, R. (1993). [Review of *Applied statistics*, by Snell E.J. and Simpson, H.R.]. *Journal of Industrial Mathematical Society*, 43, 41, 1993.
- Shanmugam, R. (1993). [Review of *Statistical methods in reliability theory and practice*, by Bunday, B.D.]. *Technometrics*, 35: 95.

- Shanmugam, R. (1993). [Review of *Point processes and their statistical inference*, by Karr, A.F.]. *SIAM Journal of Reviews*, 34: 684, 1993.
- Shanmugam, R. (1993). [Review of *Multivariate normal distribution*, by Tong, Y.L.]. *Journal of Royal Statistical Society (Series C: Statistician)* 42, 69, 1993.
- Shanmugam, R. (1993). [Review of *Exploratory linear dynamic systems analysis*, by Bijleveld, C.J.H.]. *Psychometrika*, 58: 515-516, 1993.
- Shanmugam, R. (1993). [Review of *Estimating functions*, by Godambe, V.P.]. *Journal of American Statistical Association*, 88: 1172.
- Shanmugam, R. (1993). [Review of *Henry Theil's contributions to economics and econometrics I, II, III*, by Raj, B. and Koerts, J.]. *Journal of Royal Statistical Society (Series C: The Statistician)*, 42, 325, 1993.
- Shanmugam, R. (1992). [Review of *Maximum entropy and Bayesian methods*, by Fougere, P.F.]. *Computational Statistics and Data Analysis* 14 (2, August): 269-270, 1992.
- Shanmugam, R. (1992). [Review of *Point processes and their statistical inference*, by Karr, A.F.]. *SIAM Review*, 34, 684.
- Shanmugam, R. (1992). [Review of *11th Advances in reliability technology symposium*, by Comer, P.]. *Computational Statistics and Data Analysis* 14 (2, August): 269-270, 1992.
- Shanmugam, R. (1992). [Review of *Statistical image processing and graphics*, by Wegman, E.J. and DePriest, D.J.]. *Computational Statistics and Data Analysis* 14 (2, August): 269, 1992.
- Shanmugam, R. (1992). [Review of *Assurance technologies: Principles and practices*, by Raheja, D.G.]. *Technometrics* 34: 233-234.
- Shanmugam, R. (1992). [Review of *Statistical inference in elliptically contoured and related distributions*, by Fang, K.T. and Anderson, T.W.]. *Journal of American Statistical Association* 87: 253-254.
- Shanmugam, R. (1992). [Review of *A guide to econometrics*, by Kennedy, P.]. *Journal of Statistics and Computing*.

7. Other Works in Print:

- Shanmugam, R. Encyclopedia of Statistical Sciences, Vol. 13, pp. 8192, 8196.
- Shanmugam, R. Eva Geinarova of Faculty of Medicine, Masaryk University, Czech followed my work.
- Shanmugam, R. Udaya Shetty in Managlore University, India does a follow up work on my publication in data envelopment analysis, 2006.

B. Works not in Print

1. Papers Presented at Professional Meetings:

- Shanmugam, R. (2015) Gaussian nucleus entropy and use in generated, shipped, and received waste disposal policies, 13-14, February, 2015 *Proceedings of International Conference on Recent Innovation in Engineering & Technology, Chinnasalem, India*.
- Shanmugam, R. (2014). C (alpha) method to check daunting over/under variances to understand times to aftershocks since a major earthquake, in the *refereed Proceedings of 2014 International Conference on Computer Science and*

- Engineering, Chennai, India, Computer, Electronics, Electrical, and Communication, 59, 190-193..*
- Shanmugam, R. (2013). Probabilistic health-informatics and bioterrorism, in the *refereed Proceedings of 2013 International Conference, Vancouver, Canada, on International Journal of Communication and Computer, 10, 28-32.*
- Shanmugam, R. (2012). SIAM International Conference on Data Mining, Disney Paradise Pieer Hotel, Anaheim, California, USA.
- Shanmugam, R. (2010, December 24). Paper presented in the International Conference on Computer Applications (ICCA 2010)., Pondicherry, India.
- Shanmugam, R. (2008, August). Paper presented in the Annual Conference of American Statistical Associations, Denver, Colorado.
- Shanmugam, R. (2008, April). Presented as a co-author the following articles in the Faculty Student Research Forum.
- Maxwell, L., Kubicek, L., Burk, A., Banduch, A., Burns, F., and Shanmugam, R. (2008). *Mental state development in children with down syndrome.*
- Schiurring, C., Castillo, M., Zapata, J, Walling, L., Burns, F., and Shanmugam, R. (2008). *Parent child discourse among drug exposed and non-exposed mothers.*
- Hale, K., Wissen, K., Roberts, C., Burns, F., and Shanmugam, R. (2008). *Maternal age and mental state use.*
- Gregoire, S., Martinez, C., Castillo, A., Quinones, S., Tipps, J., Burns, F., and Shanmugam, R. (2008). *Diminutive use among young Mexican-Spanish speakers.*
- Shanmugam, R. (2006, May). *Probability models for early warning system with tsunami applications.* Paper presented at Interface Meeting of Computer Science and Statistics, Pasadena, California.
- Shanmugam, R. (2003, March). *Hispanic preschool children's emergent literacy skills.* Paper presented at the 2003 Texas Research Symposium on Language Diversity, University of Texas at Austin,
- Shanmugam, R. (2003, June). *Modeling and interpreting sampling biased vaccine data.* Paper presented at the National Health Academy, Washington, D. C.
- Shanmugam, R. (1999, July). *Teaching with Technology.* Paper presented at Colorado School of Mines, Golden.
- Shanmugam, R. (1998). *Traffic accidents data analysis.* Seminar presented in CU-Denver.
- Shanmugam, R. (1998, October). *Fuzzy set theory and statistics-I.* Paper presented at CU-Denver, Fuzzy Seminar.
- Shanmugam, R. (1998). *Sample size determination.* Paper presented at CU-Denver, Statistics Seminar.
- Shanmugam, R. (1998, March). *Possibilities versus probabilities.* Paper presented at University of Colorado, Denver.
- Shanmugam, R. (1998, February). *Traffic accidents and fatalities.* Paper presented at University of Colorado, Denver.
- Shanmugam, R. (1998, February). *Fuzzy sets in quality control.* Paper presented at University of Colorado, Denver.
- Shanmugam, R. (1997, September). *What is not what in statistics.* Paper presented at University of Colorado, Denver.

- Shanmugam, R. (1995, April). *Time series modeling*. Presented at the 25th Symposium of Mississippi Water Resources.
- Shanmugam, R. (1995, March). *Poisson models*. Paper presented at the Mississippi Academy of Sciences, Biloxi.
- Shanmugam, R. (1994, October). *Accident data analysis*. Seminar at Mississippi State University.
- Shanmugam, R. (1994, June). *Modeling in international conference on life studies*. Paper presented at Harvard University.
- Shanmugam, R. (1993, December). Quality engineering. Presented at Indo-US-Japan Conference on Quality Engineering, Bangalore, India.
- Shanmugam, R. (1993, September). *Intervened Poisson model*. Paper presented at Mississippi State University.
- Shanmugam, R. (1992, March). *Modeling health chance mechanism*. Presented at Mississippi State University.
- Shanmugam, R. (1990, January). *Queuing models in Islamic countries*. Presented at Conference on Statistics, Malaysia.
- Shanmugam, R. (1989, November). *Decision model*. Paper presented in Annual Meeting of the Decision Sciences Institute.
- Shanmugam, R. (1988, January). *Modeling*. Presented at Indian National Science Congress, Madurai, India.
- Shanmugam, R. (1986, March). *Neyman's C technique*. Presented at Rocky Mountain Regional Conference, Denver.
- Shanmugam, R. (1979-2001, August). Presentation at Annual Meetings of the American Statistical Association.

2. Invited Talks, Lectures, and Presentations:

- Shanmugam, R. (2010, December 27). Invited to give a key note speech in the Second International Conference on Computer Applications – 2010, Pondicherry, India.
- Shanmugam, R. (2010, January). *What else does a statistical modeling of epileptic data can reveal?* Invited presentation at the International Conference on Statistics, University of Andhra Pradesh, Vizakhapatnam.
- Shanmugam, R. (2009, October). *Issues and approaches in infectious disease data modeling*. Invited presentation at Texas A and M University, Kingsville
- Shanmugam, R. (2009, February). Invited presentation at the Statistics Department of the University of Chennai, India about modeling earthquake/tsunami data.
- Shanmugam, R. (2007, January). Invited presentation at the International Association of Statistics, Cochin, India.
- Shanmugam, R. (2006, May). Invited presentation at the Interface of Statistics and Computer Science, Pasadena, California.
- Shanmugam, R. (2005, December). Invited presentation at the International Conference on Statistics of 21st Century, Indian School of Finance, Hyderabad, India.
- Shanmugam, R. (2005, February). Invited presentation at Center for Health Promotion Research, School of Nursing, University of Texas at Austin.
- Shanmugam, R. (2004, December). Invited presentation at Conference on Future of Statistical Theory and Applications, Indian School of Business, Hyderabad, India.

- Shanmugam, R. (2004, November). *Modeling epidemiologic data*. Invited presentation at University of Texas at San Antonio.
- Shanmugam, R. (2002, June). *At a crossroad of data envelopment*. Invited presentation at the Annual Meeting of National Health Academy, Washington, D. C.
- Shanmugam, R. (1994). *Poisson modeling*. Invited presentation at the Department of Statistics, University of Maine, Orono.
- Shanmugam, R. (1994, September). *Fertility*. Invited presentation at the International Conference on Applied Demography, Bowling Green, (1994 and Chaired a session).
- Shanmugam, R. (1993, January). *Sampling plans and process*. Invited presentation at Indo-US-Japan Conference, Bangalore, India.
- Shanmugam, R. (1992, November). *Revised MELO estimation*. Invited presentation at Duke University, Durham.
- Shanmugam, R. (1991, June). *Bayesian thoughts*. Invited presentation at Massachusetts Institute of Technology.
- Shanmugam, R. (1990, June). *Bayesian simulations*. Invited presentation at University of Connecticut Health Center, Farmington.
- Shanmugam, R. (1989, January). Indian Science Congress on Purchasing Behavior, Madurai, Tamil Nadu, India.
- Shanmugam, R. (1989, October). *Bayesian*. Invited presentation at University of Chicago.
- Shanmugam, R. (1989, March). *Bayesian*. Invited presentation at University of Missouri, Columbia.
- Shanmugam, R. (1987, January). *Statistical modeling in health*. Invited presentation at all India Seminar on Statistical Modeling in Health at Jhansi, India.
- Shanmugam, R. (1987, January). *Order-record statistics*. Invited presentation at the Indian Statistical Institute, Delhi, India.
- Shanmugam, R. (1987). *Statistical moments*. Invited presentation at Temple University, Philadelphia.
- Shanmugam, R. (1987). J.B.S. Haldane Research Center, Nagercoil
- Shanmugam, R. (1987, December). *Bayesian statistics*. Invited presentation at Indo-United States Workshop in Bayesian Statistics, Bangalore.
- Shanmugam, R. (1986). *Characterizations*. Invited presentation at University of California at Riverside.
- Shanmugam, R. (1985, October). Invited presentation at Biostatistics Department, University of Colorado Health Sciences Center, Denver.

3. Consultancies:

- Shanmugam, R. (2009-present). Helped Dr. Buck Wallis to analyze physical therapy data.
- Shanmugam, R. (2008). Helped Professor Eorge Burke in his research work on long-term healthcare topics and the collaboration is continuing.
- Shanmugam, R. (2006). Panel Member of Crash Outcomes Data Evaluation Systems, Texas Department of Health, Austin, Texas.
- Shanmugam, R. (2006, April). Discussant to Texas Healthcare Information Collection.
- Shanmugam, R. (2006). Helped Professor George Burke in his research work.
- Shanmugam, R. (2006, March). Consultant and Reviewer to U.S. Department of Justice.

Shanmugam, R. (2006). Consultant and Reviewer to NIH panels.

Shanmugam, R. (2004-present). Statistical Consultant, Center for Health Promotion Research, University of Texas at Austin, School of Nursing.

Shanmugam, R. (2003-2005). Statistical Consultant, Brooke Army Medical Center Hospital, San Antonio, Texas.

Shanmugam, R. (2001- 2004). Statistical Consultant to Professor Lorraine Walker's (Luci B. Johnson Centennial Professor, School of Nursing, University of Texas at Austin). funded project.

Shanmugam, R.(1993 -1995). Director, Statistical Consulting Service, Department of Mathematics and Statistics, Mississippi State University.

Shanmugam, R. (1990-1992). Statistical Consultant for:Stroke Management Inc., Boulder, Colorado.

Shanmugam, R. (1991-1992). L. E. Peabody and Associates Inc., Alexandria, VA.

Shanmugam, R. (1991-1993). Coors Brewing Company, Golden, Colorado.

Shanmugam, R. (1993-2004). TransLab Research Projects, University of Colorado.

4. Workshops:

5. Other Works not in Print

a. Works "submitted" or "under review":

b. Works "in progress":

c. Other Works not in Print:

C. Grants and Contracts

1. Funded External Grants and Contracts:

Shanmugam, R. (2008). Helped Professor Selina Vasquez in Mathematics Department in a funded project as its consultant.

Shanmugam, R. (2004-2005). Biostatistics Consultant to Dr. Charles Johnson's Research Grant on Mental Health, Texas State University (25% time)., \$ 11,275.

2. Submitted, but not Funded, External Grants and Contracts:

Shanmugam, R. and Burns, F. (2007, October). Research grant. Department of Communications in Disorders, NIH.

Shanmugam, R. and Deng, H.W. (2006). Genome-wide search for obesity genes, Grant proposal to NIH, (Decision is pending).

Shanmugam, R. (2005). Biostatistics consultant to National Institute of General Medical Sciences grant Project CSTEP Counts: Entry and Transition to a Mathematics Baccalaureate by Dean Dr. Ruth Welborn as Principal Investigator.

Shanmugam, R. (2003). Working as a co-PI with Dr. Gayle Acton, Professor in School of Nursing, University of Texas at Austin, on a Proposal titled Health Promoting Self Care in Dementia Caregivers to be submitted in November 2003 to NIH for \$850,000.

Shanmugam, R. (2002, December). Stochastic Models and Statistical Methodologies for Drug Reaction Time to Drug Information Association, grant proposal \$25,000.

3. Funded Internal Grants and Contracts:

Shanmugam, R. (2010). Library Research Grant, Texas State University, \$1,170

Shanmugam, R. (2002). Library Research Grant, Texas State University, \$ 578.

Shanmugam, R. (2002). Applied to Merrick Summer PowerPoint Project , April 23, 2002. \$100.

Shanmugam, R. (2001). Library Research Fund, Texas State University, \$ 1,143.

Shanmugam, R. (1998-1999). Faculty Research Grant, University of Colorado at Denver, \$ 2,575 (for generalized regressions).

Shanmugam, R. (1994). obtained an Award of \$200.00 from the Academic Excellence Committee of MSU to present a paper at the Harvard Symposium on Survival Analysis.

Shanmugam, R. (1992). National Bureau of Economic Research Travel Grant, \$ 500.

Shanmugam, R. (1992). Grant, University of Colorado at Denver, \$ 500.

4. Submitted, but not Funded, Internal Grants and Contracts:

Shanmugam, R. (2012). Applied online course teaching, Texas State University - San Marcos.

Shanmugam, R. (2011). Medical tourism Books, Library Research Grant Application #03-318-048.

Shanmugam, R. (2009). Submitted a grant proposal titled Onetime proposal for funds to support research work, to Texas State University, \$ 600

Shanmugam, R. (2002). Submitted a grant proposal titled Predicting future Incidence of an Infectious Diseases After an Effective Medical Intervention to SWT Research Enhancement Grant, December 2002, \$ 8,000.

Shanmugam, R. (2002). Submitted a research grant proposal with Drs. Walter Rast and Ben Zhang titled Modeling hydrological and Biological Responses in the Lower Colorado River, Texas to U. S. Environmental Protection Agency, July 17, 2002.

Shanmugam, R. (2002, October). Submitted a grant proposal titled Health Data Center and a Think Tank for San Marcos Springs/River Water Resources to the SWT International Institute for Sustainable Water Resources, \$24,620.

Shanmugam, R. (2002, November). Submitted a research grant proposal titled Intervened Poisson Regression Methodology and Software Development to National Science Foundation (NSF)., \$ 311,346.

Shanmugam, R. (2001). Submitted to (Mr. Michael A. Jordan, Jr.). Brook Army Medical Center, a proposal to perform data analyses in Outcomes from a nurse-managed COPD rehabilitation program, \$ 13,000.

Shanmugam, R. (2001). Submitted to (Major Kimberly K. Smith). Brook Army Medical Center, a proposal to perform data analyses in Evaluation of Staff's Retention of BCLS and ACLS Skills, \$ 13,000.

Shanmugam, R. (2001). Submitted to (Mr. Paul C. Lewis). Adult Practice Network Clinic, a proposal to perform data analyses in Community Based Smoking Prevention in Military Schools, \$ 13,000.

D. Fellowships, Awards, Honors:

Shanmugam, R. (2013). The editors of the *Journal of Medical Systems* and *Journal of Modern Applied Statistical Methods* informed me by e-mails that my articles with the titles (1) A diagnostic methodology for hazy data with border line cases, 2010, pages 161-177, (2) Correlation between the number of epileptic and healthy children in family size that follows a size biased modified power series distribution, 2006, pages 458-463, (3) Correlation between the sample mean and sample variance, 2008, pages 408-415, and (4) Is next twelve months period tumor recurrence free under restricted rate due to medication? A probabilistic warning, 2011, page numbers 329-336 have become popular articles as the viewers downloaded them.

Shanmugam, R. (2013). Runner up for Dean's Award for Excellence in Research and Creativities.

Shanmugam, R. (2008). Dean's Award for Excellence in Research and Creativities.

IV. Service

A. Institutional

1. University:

Contributed for the <i>University Lecturers Committee</i>	2014
Contributed for the <i>University's Piper Professor Committee</i>	2014
Contributed in the <i>University Senate Committee</i>	2014
Contributed for the <i>University General Education Council</i>	2014
Contributed for the <i>International Faculty Appreciation</i>	2014
Attended and participated in the <i>Piper Awards Committee</i>	2013
Assisted the Summer Commencement as <i>Graduate Marshall</i>	2013
Attended and participated <i>MIRG meetings</i>	2013
Attended and participated meetings for the <i>Presidential Research Award</i>	2013
Attended and participated in the <i>University Lecturers Committee</i>	2013
Senate <i>liaison</i> for the School of Health Administration	2013
Attended to the <i>University Academic Standards Committee</i>	2013
Member of <i>Tenure & Promotion Committee of School of Business</i>	2012
Member of the <i>University's Piper Professor Selection Committee</i>	2012-2013
Elected Member to the <i>University's Senate</i> by the SOHA	2012
Member of <i>University's Lectures Committee (Chair: Dr. Colombik)</i> .	2012-2013
Member of the <i>University Lecturers Committee</i> ,	2011-2013
Member of the McCoy College of Business Review Group Committee,	2011-2012
Member of the College of Health Professions Review Group,	2011
Attended the 3 rd International Conference for Graduate Students,	2011
Member of the Faculty Development and Advancement Committee,	2011
Member of the General Education Council,	2011
Member of the University's College Research Enhancement Committee,	2011
Attended CHP Research Share and Tell,	2011
Member of the Charles and Linda Johnson Scholarship Committee,	2011
Judge and moderator, Second International Research Conference for Graduate Students, Texas State University	2010
Member of the University Lectures Committee, Texas State University	2010
Nominee for the College Review Group, College of Health Professions, Texas State University	2010
Member of the General Education Council, Texas State University.	2009 -2012
Chair, Faculty Development and Advancement, College of Health Professions, Texas State University.	2009-2012
Member of the College Research Enhancement Committee, College of Health Professions, Texas State University.	2009-2012
Helped graduate students Lisa Hunter and Tracy Kuramitsu to analyze their clinical lab data.	2009
Member of the Examination Committee for Tamara Tarbox, Department of Engineering Technology.	2009
Attended the commencement, Texas State University.	2009
Member of the Library Committee, Texas State University.	2009

Commencement Graduate Marshall, College of Health Professions. Spring 2008, Member of the University Research Committee (URC).	2008
Member of the Library Committee.	2008
Donated books to the Texas State University library.	2008
September 27-28, Attended the 30th Annual Conference and Workshop on Policy and Diversity in Texas: Allied Health's Response, hosted by Texas State University.	2007
Member of the University Research Committee (URC).	2007
Participated and worked in Faculty Development and Advancement Committee, College of Health Professions.	2007-2012
Member of the Library Representative.	2007
Chaired Research Committee in College of Health Professions.	2004-2012
Quality Review Committee for College of Health Professions.	2004-2005
27 August, Participated in the Institutional Effectiveness Committee.	2004
Committee for Faculty Advancement and Development, College of Health Profession.	2004-2012
Served Provost Search Committee, Texas State University, San Marcos, Texas.	2004-2003
Member of the President's Task Force on Students' Admissions to Texas State University.	2003-2012
Member of Provost Search Committee, Texas State University, San Marcos, Texas.	2003-2004
Member of the Newsletter Committee for publishing Health-Beats.	2002-2003
Member of the Ph.D. Task Force in Health.	2002-2004
University Tuition Pricing Committee.	2001-2012
in Health Careers Information Committee.	2001
Member of Campus Wide Budget Committee.	2001-2005
Liaison to University Faculty Senate.	2001-2005
Faculty Development and Advancement Committee.	2001
Sept. 13, Attended Satellite Teleconference on Responsible Research.	2001
Nominated to serve on Dr. Robert Smallwood's Committee on NSSE Outcomes.	2001
Invited by University of Nevada, Las Vegas to write a referee report for a promotion to full professorship.	2001

2. College:

Contributed for the <i>School of Nursing Personnel Committee</i>	2014
Contributed for the <i>Research Enhancement Committee</i>	2014
Contributed for the <i>Faculty Development Committee</i>	2014
Contributed and evaluated colleagues <i>Teaching Committee</i>	2014
Nominated member to the <i>College's Review Group</i>	2013
Member, <i>School of Nursing's Personnel Committee</i>	2013
Member of <i>Faculty Development and Advancement Committee</i>	2013
Attended and participated <i>College's Research Enhancement Committee</i>	2013
Member of <i>General Education Council</i>	2013
(Alternate). Member of <i>University's College Research Enhancement</i>	2013

Attended all <i>CHP Research Brown Bag meetings</i>	2013
Attended <i>Faculty Project Information for Dr. Susan Fenton</i>	2013
Attended and participated as <i>Graduate Marshall in the commencement</i>	2013
Attended <i>brown-bag research roundtable meetings</i>	2013
Attended and participated in <i>University's College REP Committee</i>	2013
Did classroom visits of Drs. Amanda Sokan, Amber McIlwain	2013
Attended the College's 40 th meeting	2012

3. Department/School:

Contributed for the <i>Director Search Committee</i>	2014
Contributed for the <i>Personnel Committee</i>	2014
Contributed for the <i>Graduate Student Admission Committee</i>	2014
Contributed for the <i>Faculty Search Committee</i>	2014
Contributed for the <i>Colleagues' teaching evaluations</i>	2014
Participated and contributed for the <i>Strategic Planning Committee</i>	2014
Contributed for the <i>SOHA Policy Review Committee</i>	2014
Contributed for the <i>Healthcare Leadership Coalition</i>	2014
Contributed for the <i>Library Committee</i>	2014
Mentored colleagues (Drs. Michael Mileski and Scott Kruse)	2014
Contributed for the students to get job (Lockheed, Ambulation)	2014
Participated and contributed for the <i>CAHME site visit etc.</i>	2013
Participated and contributed for the <i>SLO report</i>	2013
Participated and contributed for the <i>APR in HSR program</i>	2013
Participated and contributed for the <i>SOHA tenure and promotion policy</i>	2013
Participated and contributed for the <i>SOHA Healthcare Conference</i>	2013
Participated and contributed in <i>Research Enhancement Committee</i>	2013
Participated and contributed for <i>SOHA, Director Search</i>	2013
Chaired the <i>Library Committee for SOHA</i>	2013
Chair, <i>SOHA Search Committee</i> (all five positions were filled)	2013
Member, <i>SOHA Personnel Committee</i>	2013
Communicated a job in Lockheed Martin to the graduate students	2013
Attended SOHA retreat (8/23/2012).	2012
Library Acquisitions Coordinator for SOHA	2012-2013
National Reputation Committee for SOHA	2012
Graduate Students Orientation Committee	2012
Attended Academic Program Review (APR).	2012
Attended HLC Meetings for SOHA	2012
Attended Healthcare Reform in Long-Term care	2012
Attended all Personnel Committee meetings for SOHA	2012
Attended all fall meetings of General Faculty Council	2012
Visited classrooms of all tenure track faculty	2012
Member of Director Search Committee for SOHA	2012
Contributed and checked HSR Comp Exams	2012
Attended SOHA Recognition meeting	2012
Filled in for the Director Dr. Michael Nowicki in Graduate College Fair,	2011
Member of the Personnel Committee.	2011

Member of the Search Committee.	2011
Member of the Comp Exams Committee for (A. Gilbert, M. Lacayo, T. Syed, E. Huebner, D. Kreitner and L. Jaskinia [Chair]).	2011
Attended and helped Professor Robert Mooney.	2011
Revise the syllabus of HR 5331 with the new title "Research Methods in Health Services".	2011
Attended the presentation by Elise Huebner and Tondra Moore, International Research Day organized by Texas State University.	2011
Visited and evaluated teaching of Moore, Johnson, Nauert, Brooks, Griffin, Lieneck.	2011
Attended 15 th Annual Reception and Recognition Dinner, Embassy Suites.	2011
Member of the Graduate Students Orientation Committee.	2011
Wrote recommendation letters for HSR students.	2011
Member of the DHA Task Force, School of Health Administration, Texas State University.	2010
Chair and member of the Comp Exams, School of Health Administration, Texas State University.	2010
Wrote a report for Dr. Nowicki about the criteria for evaluating research productivity, School of Health Administration, Texas State University.	2010
Substituted for Michael Nowicki's class, School of Health Administration, Texas State University.	2009
Personnel Committee, School of Health Administration, Texas State University.	2009
Visited Rick Nauert' class to assess her teaching, School of Health Administration, Texas State University.	2010
Visited Attila Hertelandy's class to assess her teaching, School of Health Administration, Texas State University.	2010
Visited Tina Fields' class to assess her teaching, School of Health Administration, Texas State University.	2009
Advised Sabrina Vidaurri about directed study for her directed study	2010
Referred jobs for graduate students in health services research.	2009
Member of the Search Committee, School of Health Administration, Texas State University.	2009
Wrote the Thesis preparation and submission for the School of Health Administration.	2008
Prepared HP 3302 for clinical science major and HPxxxx for the health administration major.	2008
Worked as a member of the weekly assessment meetings.	2008
Prepared comp questions for HA students in HA 5334 Operational Decision Making, and for HSR students.	2008
Serving in the Search Committee for the School of Health Administration.	2008
Member of the College Review Group, College of Health Professions.	2008
Served on the Committee for Faculty Development and Advancement, College of Health Professions.	2008
Chaired and served in the College Research Committee, College of Health Professions.	2008

Member of Tenure and Promotion Committee, School of Health Administration.	2008
Member of the Personnel Committee, School of Health Administration.	2008
Communicated about jobs to our students and write recommendation letters for health services research students.	2008
6 December, Proctored the undergraduate comp exam for the School of Health Administration.	2008
Fall, Helped colleague Tina Fields by substituting for her class.	2008
Member of the Personnel Committee, School of Health Administration.	2007
Prepared comp questions for HA students in HA 5334 Operational Decision Making, and for HSR students.	2007
Serving in the Search Committee for Director of School of Health Administration.	2007
Member of the Faculty Search Committee, School of Health Administration.	2007
Served as Acting Chair of the Department when Dr. Oren Renick was away.	2007
Participated in revising HP3302 Biostatistics course.	2006
Helped the Chairman in selecting graduate teaching assistants in Health Research area.	2006
Compose, Proctor, and Grade the comprehensive examinations in health research program.	2006
Visited Texas A and M University, College Station and recruited students for health research programs.	2004
I served on the Faculty Development and Advancement Committee, College of Health Professions.	2004-2005
Corresponded with U.S. and Foreign students to enter M.S. in health research program.	2001-2006
Director of Graduate Health Research program.	2001-2006
Making, proctoring, grading Comprehensive examinations for the M. S. students in health research.	2001-2006
February. 11, Attended Academic Program Review in College of Health Professions, SWT State University.	2002
March, Made exam for an M.S. student in Technology.	2002
Helped Dr. Arch Mallard, Department of Communications Disorders in his research.	2002
Fall, Prepared (BIO 7305 and BIO 7306). courses in the Biology Department for their Ph. D. program.	2002
Helped SWT Library to purchase on Data Envelopment Analysis Books	2001
Nominated to serve in Dr. Robert Smallwood's (SWT Campus Wide). Committee on NSSE 2001 Outcomes.	2001
Networking with colleagues (in Louisiana State Government Departments)., to find jobs for students.	2001-2006
B. Professional:	
Editor-in-Chief, Advances in Life Sciences and Health (ALSH)	2015-present

Editor-in-Chief, Global Journal of Research and Review	2014-present
Editor, <i>Journal of Advances in Alzheimer's Disease</i>	2014
Editor, <i>Journal of Mathematics and Statistics</i>	2014
Editor, <i>Journal of Statistics, Optimization & Information Computing</i>	2014
Editor, <i>Journal of Applied Mathematics</i>	2014
Editor, <i>Journal of Critical Care</i>	2014
Editor, <i>International Journal of Medical Science Research & Practice</i>	2014
Editor of eBook series: <i>Current Developments in Stroke</i>	2014
Editor, <i>InterStat</i>	2014
Editor, <i>American Journal of Economics and Business Administration</i>	2014
Editor, <i>American Journal of Research in Nursing</i>	2014
Editor, <i>International Journal of Research in Medical Sciences</i>	2014
Attended and presented a research paper in the 2014 International Conference on Computer, Electronics, Communication Engineering, Chennai, India	2014
Referee for the International Journal of Applied Management Science	2014
Referee for the International Journal of Business Analysis	2014
Referee for the International Journal of Data Science	2014
Editor, <i>American Journal of Economics and Business Administration</i>	2013
Editor, <i>International Journal of Statistics and Systems</i>	2013
Editor, <i>International Journal of Research in Nursing</i>	2013
Editor, Technical Committee of ICIECA	2013
Editor, <i>Journal of Critical Care</i>	2013
Associate Editor, <i>International Journal of Research in Medical Sciences</i>	2013
Reviewer for the <i>American Journal of Economics and Business</i>	2013
Reviewer of the Management Track in ICCA	2013
Reviewer of Thomas Reuters Expert Witness Services	2013
Referee for the International Journal of Data Science	2013
Referee for the International Journal of Systems Science	2013
Referee for the Statistical Methodology	2013
Referee for the Communications in Statistics	2013
Recognition of the 35 th Anniversary of ASA membership	2013
Completion of the Science and Engineering Institute workshop	2013
Member of the NIH Grants Proposal Review Committee on Substances	2012-2013
Editorial Board Member of the International Journal of Applied Engineering Research	2012-2013
Editorial Member of the <i>Journal of Critical Care</i>	2012-2013
Editorial Board Member of International Journal on Computer Science and Technology	2012-2013
Editorial Member of the International Journal of Research in Nursing	2012-2013
Refereed five manuscripts for the <i>Journal of Critical Care</i>	2012-2013
Refereed <i>three</i> manuscripts for <i>Communications in Statistics</i>	2012-2013
Refereed a manuscript for the <i>Journal: Probability in Engineering...</i>	2012
Refereed a manuscript for the <i>Journal: Statistical Methodology</i>	2012
Refereed five manuscripts for the journals of Science Publications	2012
Refereed three manuscripts for the International Journal of Management	2012

Refereed a manuscript for the Journal of Transportation and Statistics	2012
Refereed a manuscript for the Encyclopedia of Business Analytics and Optimization	2012
Member of the Science Advisory Board	2012
Invited to be an external examiner of Ph. D. Dissertation, by Alagappa University, India	2012
Invited to give a keynote speech on my work "Hazy Diagnostics...." by the Organizer of 2012 Baoding International Conference of Internal Medicine	2012
Invited to submit research article by Journal of Signal and Information Processing	2012
Attended the workshop and talks in the Texas State Department of Health.	2011
Attended the 3 rd International Conference for Graduate Students.	2011
Invited to give a talk on Imprint of Medical Tourism: Economic Issues, in the Heber International Conference on Applications of Mathematics and Statistics, Trichy, India (Did not make to travel).	2011
Editor, Clinical Reviews and Opinions.	2010-2012
Editor, International Journal of Applied Management Science.	2009-2012
Editor, American Journal of Economics and Business Administration.	2009-2012
Editor, Chinese Journal of Clinicians.	2011-2012
March, Served to be a Consultant and Reviewer to U.S. Department of Justice.	2008-2012
Editor of Inter Stat, an Electronic Journal of the American Statistical Association.	2008-2012
Editor, International Journal of Applied Management Science.	2008-2012
Associate Editor of the International Journal of Data Analysis Techniques and Strategies.	2008-2012
Editor, Journal of Bioinformation.	2008-2012
Editor, Journal of Critical Care.	2008-2012
Editor of the International Journal of Tomography and Statistics.	2008-2012
Editor, Bulletin of Statistics and Economics.	2008-2012
Associate Editor, Journal of Mathematical Biology.	2007-2012
March, Nominated to be a Consultant and Reviewer to U.S. Department of Justice.	2007
Panel Member of Crash Outcomes Data Evaluation Systems, Texas Department of Health, Austin.	2007
Consultant and Reviewer to NIH panels.	2006
Computer Resources Committee for Health Professions.	2004-2006
Member of the Advisory Board, Center for Health Promotion Research, School of Nursing, University of Texas at Austin, 2008.	2002-2012
Book Review Editor of the Journal of Statistical Computation and Simulation (wrote book reviews).	2001-2012
Served as a referee of manuscripts for the journals:	2001-2012
• International Journal of Ecology and Development.	
• INFOR	
• Applied Mathematical Modeling	

• Bulletin of Statistics and Economics	
• Communications in Statistics	
• Journal of Statistical Computation and Simulation	
• European Journal of Operational Research	
• The International Journal of Management Science	
• Omega	
• Journal of Statistics and Applications	
Associate Editor, Computational Statistics.	2000-2002
Associate Editor, Journal of Indian Association for Productivity, Quality and Reliability.	1999-2004
Associate Editor, The Biometrical Journal.	1999-2004
Associate Editor, Journal of Sensory Studies.	1998-2003
Associate Editor, The Statistician.	1993-1997
Reviewer of Books, Marcel Dekker Press, New York.	1988
Associate Editor, Journal of Quality Technology.	1988
Associate Editor, Journal of Quality Technology.	1988
Associate Editor, United Nations Statistical Journal.	1986-1996
Contributing Editor, Current Index to Statistics.	1979-2000
Invited to give a key note speech, Second International Conference on Computer Applications, Pondicherry, India.	2010
External Examiner to Yvonne Lozano's Ph. D. Dissertation, University of North Texas at Denton.	2009
Reviewer of research grant proposals to SAMHSA, National Institute of Health, Bethesda, Maryland.	2009
External Examiner to Ph.D. dissertation, Department of Statistics, Manonmaniam Sundaranar University, Tamil Nadu, India.	2005
SAMHSA Reviewer, Department of Human and Health Service of Federal Government.	2005
Advisory Committee, Nursing, UT-Austin.	2004-2012
ASA International Relations Committee when R. L. Mason was ASA President.	2004-2005
Served in the Health Economics Interest Group of National Health Academy.	2004-2005
Helped Health Academy as a reviewer for best student poster presentation San Diego, California.	2004
Member of Health Economics Committee, Health Academy.	2004
Reviewer of Hong Kong National Academy Grants.	2004
Wrote tenure letter for UNTHSC, Fort Worth, Texas.	2004
Member, Executive committee for Austin Chapter of ASA.	2003-2005
One of Borad of Directors to the Center for Health Promotion and Disease Prevention Resaerch in Underserved Populations, in the School of Nursing, University of Texas at Austin.	2002-2010
NIH Study Group: Neuroepidemiology, Aging, and Musculoskeletal Epidemiology.	2002-2010
Health Informatics Management Systems Society (National).	2001-2004
American Medical Informatics Association (National).	2001-2004

Health Academy (National).	2001-2005
Faculty Grader, Educational Testing Service.	1997
Arranged Dr. Arnold Zellner, President of ASA to give a talk on the importance of Statistical Thinking to the Society, Mississippi State.	1994
Chaired a session on distributions in 21st Annual Meeting of the Decision Sciences Institute, San Diego, CA.	1990
Reviewer for Mathematical Reviews.	1985-2010
Chair, Statistical Computing Session, Operations Research Society of America Meeting, Atlanta.	1985

C. Community:

Shanmugam, R. is Advisory Member of the Center for Health Promotion and Disease Prevention in Underserved Populations, University of Texas at Austin.	2010.
Collected donations for the American Diabetes Association.	2008

D. Services, Honors and Awards:

Excellent Research Award, College of Health Professions, Texas State University.	2008
Finalist Texas State University Presidential Award in Scholarly and Creative Activities.	2006
Excellent Research/Scholarship Award, College of Health Professions, Texas State University.	2004-2005
Excellent Research/Scholarship Award, College of Health Professions, Texas State University.	2004-2005
Member of the United Who's Who Executive Registry.	2004
NIH Panel Member, Epidemiology of Clinical Disorders and Aging (EDCA). (Study Section).	2001-2006
Elected Member of the International Statistical Institute.	1991-2012
A Faculty Award for Research Work, College of Arts and Sciences, University of Colorado, Denver.	1984
Proficiency Award for Academic Achievement, Brigham Young University.	1973
Elected Member in the Honor Society of Phi Kappa Phi.	1973

E. Service Grants and Contracts

1. Funded External Service Grants and Contracts:

2. Submitted, but not Funded, External Service Grants and Contracts:

3. Funded Internal Service Grants and Contracts:

4. Submitted, but not Funded, Internal Service Grants and Contracts: