Curriculum Vitae

Prof. T. S. G. Peiris; B.Sc., M. Sc., Ph. D, FRSS, FIASSL
Senior Professor in Applied Statistics

Contact Information

Office: Department of Mathematics,
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Date of Birth: 05 April 1955

Citations: 446   **h-index:** 11   **i10-index**: 12

1.   Research Interest: Applied Statistics

1.1   Areas of Research
- Data Mining Techniques in Multivaraite Statistics
- Regression Modelling
- Climate Change Analysis and Assessment
- Time Series Forecasting
- Teaching Statistics

1.2   Supervision of Research Students (Ph D/M Phil)
Completed :   2 - Ph Ds, and 9 - M Phils
On Going: 1 – Ph Ds

1.3   Supervision of M. Sc. Projects for Taught Course (20 credits per project)
Completed: 32
On Going**:**   12

2.   Educational Qualification & Professional Qualification/Experience

2.1   Educational Qualification
- B. Sc. (First Class Honours), University of Colombo, Sri Lanka - 1979
- M. Sc. (Statistics), University of Canterbury, New Zealand - 1985

- Ph. D. (Applied Statistics), University of Colombo, Sri Lanka - 1996

2.2 Professional Qualification
- Fellow of the Institute of Applied Statistics Sri Lanka (IASSL) since 2016.
- Fellow of Royal Statistics Society (FRSS), UK since 2010.

2.3 Professional Experience

2.3.1 Honorary Posts
- Council Member - IASSL since 2011 to date.
- Chairman – Academic & Training Commmitee, IASSL in 2017 & 2018.
- Vice President - Organization of Professional Association (OPA) Sri Lanka, 2015
- President - IASSL in 2014.
- Secretary – IASSL in 2012
- Secretary, Section E2, Sri Lanka Association for the Advancement of Science (SLAAS), 1993
- Secretary, Section B, Sri Lanka Association for the Advancement of Science (SLAAS), 1990, 1991

2.3.2 Conferences
- General Chair - 3rd Internatioanl Conference in Statistics organized by the IASSL in collaboration with the Department of Mathematics and Statistics, University of Maryland Baltimore Couny(UMBC), USA, the Department of Mathematics, Faculty of Engineering, University of Moratuwa and National Science Foundation of Sri Lanka held during 28-29 December, 2017 in Taj Samudra Hotel, Colombo, Sri Lanka.
- General Chair - 2nd International Conference in Statistics organized by the IASSL in collaboration with Department of Bioinformatics and Biostatistics at the University of Louisville, USA and National Science Foundation of Sri Lanka held during 28-30 December 2014 in Galadari Hotel, Colombo, Sri Lanka.
- General Chair – 2nd National Statistics Conference organized by the Association of Applied Statistics in Sri Lanka in 2009.
- General Chair – 1st National Statistics Conference organized by the Association of Applied Statistics in Sri Lanka in 2008.

2.4 Visiting Appointments

- Visiting Professor - Department of Mathematics & Statistics, University of Maryland, Baltimore County (UMBC), USA, 01 November 2018 – 28 January 2019.
- Visiting Professor - Department of Statistics, University of Connecticut, USA, (30-31) Oct 2018.
- Visiting Professor - Department of Statistics, National Chengchi University, Taiwan, (16-25) April, 2018.
- Visiting Professor - Department of Mathematics & Statistics, University of Maryland, Baltimore County (UMBC), USA, 15 August 2015 – 14 October, 2015.
- Visiting Fellow - Int. Research Inst. for Climate Prediction, Palisades, New York, (01-23) Nov, 2003.
- Visiting Fellow: Bio-Mathematics Dept., IACR-Rothamsted, Harpenden, UK, October 2001 – June 2002
- Visiting Fellow - Silsoe College, Bedford, UK, (15 Sep – 10 Oct), 1994

- Visiting Fellow – ICRISAT, Hyderabad, India, (01-14) Sep 1994
- Visiting Fellow - Department of Applied Statistics, University of Reading, and various Research Organizations in UK and Scotland during Jan-Jun 1987.

3. Career Development

Dept. of Engineering Mathematics, Faculty of Engineering, University of Peradeniya, Sri Lanka
- Temporary Instructor   (Oct 1979 - Sep 1980)

Biometry Division, Coconut Research Institute (CRI, Lunuwila, Sri Lanka)
- Statistician   (Oct 1980 - April 1986)
- Senior Statistician   (May 1986 - Dec 1991)
- Principal Statistician   (Jan 1992 - May 2004)
- Principal Statistician & Head, Biometry Division   (Jun 2004 - Aug 2007)

Department of Mathematics, University of Moratuwa, Sri Lanka
- Senior Lecturer Grade I   (Aug 2007 - Jan 2011)
- Professor in Applied Statistics   (Jan 2011 – Jan 2019)
- Senior Professor in Applied Statistics   (Jan, 2019 to date)
- Professor and Head, Depart. Of Mathematics   (Jun 2012 - June 2018)

4. Experience

4.1 Statistical Analysis
- Thirty years (30) years of post-qualifying experience of statistical analyses in various fields.

4.2 Expert Advise (Overseas)

Foreign Expert in Quality Assurance and Team Leader of External Peer Review Team (EPRT) for Evaluation of Self-Assessment Reports and Quality Assurance Activities of the Nine Academic departments in four universities in Bangladesh:
  i. Department of Biotechnology and Genetic Engineering (DBGE) and Department of Statistics of the Islamic University, Kushtia, Bangladesh during April 2018
  ii. Department of Drama & Dramatics, Department of Pharmacy and Department of International Relation of the Jahangirnagar University during January 2018.
  iii. Department of Bangla, Department of Drama and Institute of Environmental Science of the University of Rajashahi, during November, 2017.
  iv. Department of Mathematics, Bangladesh University of Engineering & Technology (BUET) during November, 2016.

4.3 Expert Advise (Local)
- National Reviewer in Subject/Programme Review Assessments conducted by the Quality Assurance & Accreditation Council of the University Grant Commission (UGC), Sri Lanka for the
  (i) Department of Mathematics, Eastern University of Sri Lanka in 2009,
  (ii) Department of Mathematics, South Eastern University of Sri Lanka in 2009 and
  (iii) Department of Statistics and Computer Science, University of Sri Jayawardenapura in 2010.

- Member of the expert committee for the development of course for the Degree in Statistics in South Eastern University of Sri Lanka in 2015
- Member of the expert committee for the development of course for the Degree in Statistics (Special) in South Eastern University of Sri Lanka in 2011
- Member of the Committee of Subject Benchmark Statements for Mathematics and Statistics in University Grant Commission.
- Was an expert and advisor on Monitoring and Evaluation of Agricultural Research and Human Resources Management for the Agricultural Research Institutes and Organization under Council of Agricultural Research Policy (CARP) in Sri Lanka. Have trained many research staff in those institutes.

4.4   Editorial Work

1) **Peiris T S G,** Edirisinghe, P M, Abeynayake, N R and Amarasekara, D A B N (2017). Proceedings of the International Statistics Conference. Colombo, Sri Lanka, 28-30 December, ISBN 978-955-0056-05-7

2) **Peiris T S G,** Chatura Siriwardena and Nanayakkara K A D S A (2014). Proceedings of the International Statistics Conference. Colombo, Sri Lanka, 28-30 December, ISBN 978-955-0056-03-3

3) **Peiris, T. S. G.** & Gunaratne, L. H. P.(2009). Abstracts of Contributed and Invited Papers, International Statistics Conference organized by the Applied Statistics Association of Sri Lanka (ASASL),9-10 January, 1-26, ISBN 978-955-0056-00-2

4) **Peiris, T. S. G.** & Gunaratne, L. H. P. (2008). Abstracts of the National Statistics Conference organized by the Applied Statistics Association of Sri Lanka (ASASL)**,** 7 January, 1-14.

5) **Peiris, T. S. G.** & Ranasinghe, C. S. (2004). Preceding I (Reviews & Invited Papers) of the International Conference of the CRISL: Tree of Life – New Trends in the Millennium 1-281, ISBN: 955-9013-03-3.

6) **Peiris, T. S. G.** & Ranasinghe, C. S. (2004). Abstracts of International Conference of CRISL 1-85.

7) **Peiris, T. S. G.** & Ranasinghe, C. S. (2005). Proceeding II (Contributed Papers) of the International Conference of the CRISL: Tree of Life – New Trends in the Millennium.1-361, ISBN: 955-9013-03-3.

4.5   Other Experiences

- Statistical advisory for various government departments and private organizations
- Teaching experience for post graduates and under graduates in different universities
- Conducting various short courses and workshops on various aspect on statistics to various clients conducted by the Institute of Applied Statistics Sri Lanka.
- Supervising projects for post graduate research students and post graduate taught course students
- Monitoring and evaluation of agricultural research and human resources management
- Good communication skills in English and Sinhalese
- Good in writing scientific reports and popular articles
- Working experience with multi-disciplinary teams
- Organizing International and Local conferences

- Reviewing research articles
- Efficient deployment and management of staff and administrative work
- Competent in the use of statistical packages such as SAS, SPSS, Minitab and EViews and good in SAS programming

4.6 **Invited Speeches**

1) **Peiris, T S G** (2007). *Use of Statistics for Disaster Management.* At the Section E1 (Physical Science) of the Sri Lanka Association for the Advancement of Science (/SLAAS) on 07th December 2007. .

2) **Peiris, T S G** (2006). *Opportunities for Research in Applied Statistics.* At the Section E1 (Physical Science) of the Sri Lanka Association for the Advancement of Science (/SLAAS) on 13th December 2006.

3) **Peiris, T S G** (2006). *Assessment of Climate Change Impacts on Vulnerability of Coconut Sector in Sri Lanka.* At the Hector Kobbekaduwa Agrarian Research & Training Institute (HARTI) on 6th April 2006

4) **Peiris, T.S. G**. (2005). *Role of Statisticians Towards Disaster Management in Climate.* 28-35 pp, Proceedings of the 6th Annual General Meeting of the Applied Statistics Association of Sri Lanka, Prof. V K Samaranayake Auditorium, University of Colombo, Colombo, Sri Lank

5. Publications

5.1 *Reports for dissemination of knowledge and contributions to the national / international development*

1) Ranasinghe, C. S., **Peiris, T. S. G.**, Jayawardena, J., Perera, L, Fernando, M. T. N. and Wickramananda, I. (2007). Coconut Palm Decline: An Assessment of the Prevalence and Probable Causes. 1-18 pp.

2) **Peiris, T. S. G.**, Henry Nimal Appuhamy, Nainanayake N. P. A. D, Bandaranayake C. K. and Fernando M. T. N. (2006). Coconut Research, Development and Dissemination of Technologies - Growers Perception. 1-102pp. ISBN: 955 – 9013 – 06 - 8.

3) **Peiris, T. S. G.** and Fernando, M. T. N. (1999). Demand for Farm Managers in the Coconut Estate Sector. 1- 47pp.

4) **Peiris, T. S. G**. and Samarajeewa, S. (1997). Evaluation of Coconut Subsidy on Coconut Subsidy Programs. 1- 128pp

5) Somasiri, L. L. W., **Peiris, T. S. G.**, Gunathilake, H. A. J., Fernando, M. T. N. and Pinto, J. L. J. G. (1993). An Appraisal of Coconut Growers' Reactions and observations on CRI Recommended Cultural Practices and Other Related Issues. 1-123pp.

5.2 *Publications in Refereed Indexed Journals (International)*

1) Silva, H P T N, Dissanayake, G S and **Peiris T S G** (2019). The Use of Fractionally Autoregressive Integrated Moving Average for the Rainfall Forecasting. Springer Nature Switzerland , V Kreinovich et. al. (Eds), ECONVN, SCI 809, 567-580.

2) Silva, H P T N, Dissanayake, G S and **Peiris T S G** (2019). Modeling Persistent and Periodic Weekly Rainfall in an Environment of an Emerging Sri Lankan Economy. Springer Nature Switzerland , V Kreinovich et. al. (Eds), ECONVN, SCI 808, 314-328.

3) Silva, H P T N and **Peiris T S G** (2018). Accurate Confidence Interval for Weibull Percentiles Using Bootstrap Calibration: A case study from weekly rainfall in Sri Lanka. International Journal of Ecological Economics and Statistics. 39(3), 67-76.

4) Sameera Senanayake**,** Nalika Gunawardena, Paba Palihawadana, Sanjeewa Kularatna and **Peiris, T S G** (2017). Validity and reliability of the Sri Lankan version of the Kidney Disease Quality of Life Questionnaire (KDQOL-SF™), Journal o**f** Health and Quality of Life Outcomes, 15,119, 1-9

5) Silva, H P T N and **Peiris T S G** (2017). Analysis of Weekly Rainfall using Percentile Bootstrap Approach. International Journal of Ecology and Development, 32(3), 97-107.

6) Nanayakkara, K A D S A and **Peiris, T S G** (2017). Influence of Mathematics on Academic Performance of Engineering Students: PLS-SEM Approach. Communication in Statistics Case Studies and Data Analysis.

7) **Peiris, T S G** and Nanayakkara, K. A. D. S. A. (2017). Application of Adjusted Canonical Correlation Analysis (ACCA) to study the association between mathematics in Level 1 and Level 2 and performance of engineering disciplines in Level 2. *Journal of Physics: Conference Series* 890 012092, 1-12.

8) Attanayake, A M C H, Jayasundara, D D M and **Peiris, T S G** (2016). An Application of 5-Fold Cross validation on a Binary Logistic Regression Model. Advances & Applications in Statistics. 49(6), 443-461.

9) Nanyakkara K. A. D. S. A. and **Peiris, T. S. G.** (2016). Impact of Mathematics in Level 1 on the Academic Performance of Engineering Students: A Case Study. *International Journal of Applied Statistics and Statistical Sciences,* 5(4), 1 -8.

10) Nanayakkara K A D S A and **Peiris, T. S. G.** (2016). Application of Canonical Correlation Analysis to Study the Influence of Mathematics on Engineering Programs. Proceedings of the ERU Symposium, University of Moratuwa, IEEE (978-1-5090-0645.

11) Razmy A. M. **& Peiris T. S. G.** (2014). Comparison of Rectangular and Elliptical Control Region EWMA Schemes for Joint Quality Monitoring, *Open Journal of Statistics,* 4 (11), 970 -976.

12) Yadharshny Sivapragasam, and **Peiris** T**. S. G.** (2014). Factors Effecting on Internet Banking Adoption: A Case Study. Asian Journal of Business and Management (AJBM), Vol.2(4), 232-239.

13) Razmy, A. M. and **Peiris, T. S. G.** (2013). Design of Expoenetially Weighted Moving Average Chart for Monitoring Standardized Process Variance. International Journal of Engineering and Technology. Vol 13 , 74-78.

14) Mathugama S. C. and **Peiris T. S. G.** (2012). Spatial and Temporal Analysis of Critical Dry Spells in Sri Lanka. The International J of Climate Change: Impacts and Responses. *International Journal of Climate Change: Impacts and Response*. 3(3): 71-88.

15) Mathugama S. C. and **Peiris T. S. G.** (2011). Critical Evaluation of Dry Spell Research. International J of Basic and Applied Sciences, 11 (6), 153-160

16) **Peiris, T. S. G**., Hansen, J. W. and Lareef, Zubair (2008). Use of seasonal climate information to predict coconut production in Sri Lanka. *International. J of Climatology, 28: 103-10.*

17) Siriwardena, P. H. A., Fernando, L. C. P. and **Peiris, T. S. G**. (2005). A new method to estimate the population size of coconut mite on a coconut nut. *J. of Experimental and Applied Acarology*, Nertherlands. 37, 123-129.

18) Marikkar, J. M. N., H. M. Ghazali, Y.B. Che Man, **Peiris, T. S. G**. and O.M. Lai. (2005). Distinguishing lard from other animal fats in admixtures of some vegetable oils using liquid chromatographic data coupled with multivariate data analysis. *Food Chemistry,* 91, 5-14.

19) Marikkar, J. M. N., H. M. Ghazali, Y.B. Che Man, **Peiris, T. S. G**. and O.M. Lai. (2005). Use of gas liquid chromatography in combination with pancreatic lipolysis and multivariate data analysis techniques for identification of lard contamination in some vegetable oils *Food Chemistry,* 90, 23-30

20) Fernando, L.C.P., Aratchige, N. S., **Peiris, T. S. G**. (2003). Distribution patterns of coconut mite, Aceriaguerreronis and its predator Neoseiulusaff. paspalivorus in coconut palms. *J. of Experimental and Applied Acarology*. 31, 71-78.

21) **Peiris, T. S. G**. and Thattil, R. O. (1998). The study of climate effects on the nut yield of coconut using parsimonious models. *J. of Experimental Agriculture*, 34, 189-206.

22) **Peiris, T. S. G**., Thattil, R. O., and Mahindapala, R. (1995). An analysis of the effect of climate and weather on coconut (*Cocosnucifera*). *J. of Experimental Agriculture*, 31 (4), 451-460.

23) **Peiris, T. S. G.** (1993). Statistical analysis of field experiments in coconut using fewer recordings, *J. of Experimental Agriculture*. (29), 207-213.

5.3   *Publications in Refereed non-indexed Journals (National and International*

1) Jayathilake Amali and Peiris, T S G (2017). Modelling Aging Population in Sri Lanka. Cities People Places : An International Journal on Urban Environments. 2(2). 40-46

2) Dewappriya M A N, Dias, W P S and Peiris, T S G (2017). Modelling of Tsunami Intensity Using Artifical Neural Network and Fuzzy Inference System. International Journal of Scientific and Engineering Research, 8(6), 1-7.

3) Razmy, AM and **Peiris, T. S. G.** (2013). Design of Expoenetially Weighted Moving Average Scheme for Standardized Means. Sri Lanka Journal of Applied Statistics. Vol (14-2), 145-152.

4) **Peiris, T. S. G**. and Kularatne, J. D. J. S. (2008). Assessment of Climate Variability for Coconut and Other Crops: A Statistical Approach. *International Journal of Coconut Research & Development (CORD). 24(1) 35-53*

5) Kularatne, J. D. J. S., **Peiris, T. S. G**. and Samita, S. (2008). Impact of Covariate on Single Palm Plot Experiments in Coconut. International *Journal of Coconut Research & Development (CORD*CORD, 24(2), 10-20.

6) Cooray, T. M. J. A. and **Peiris, T. S. G.** (2008). Day and Night, Electricity Load Forecasting for Peaks Values in Sri Lanka. *Sri Lanka Journal of Applied Statistics, 9, 121-131.*

7) Wickramananda, I. R., **Peiris, T. S. G.,** Neil Fernando, Fernando, L C P and Edgington, S. (2007). Impact of the coconut mite (*AcerriaguerreronisKeifer*) on the coconut industry in Sri Lanka. *International J of Coconut R & D (Cord)*, *Indonesia,* 23(1), 1-16.

8) **Peiris T. S. G.**, K. P. Waidayaratne,.Samita S. and R. O. Thattil (2007). Control of spatial effect due to neighboring palms in coconut (*CocosNucifera*). *International Journal on Coconut R & D (CORD), 23(2), 46-57.*

9) Pathirage Anuradha Niranji, D P. and **Peiris, T. S. G.** (2007). Integrated Time Series Model to Forecast Monthly Nut Price of Coconut. *Sri Lankan Journal of Applied Statistics, 8*, 83-94

10) Kularatne, J D J S, **Peiris, T. S. G.** and Samita S. (2006). Feasibility of single palm plot in coconut experimentation. *Journal of Tropical Agricultural Research*, 18, 55-62.

11) Waidyarathne K. P, **Peiris T. S. G** and Samita, S. (2006). Shift in onset of first inter monsoon rain in coconut growing areas in Sri Lanka. *Journal of Tropical Agricultural Research*, 18, 1-12.

12) **Peiris, T. S. G**. (2005). Spatial aggregation of multidisciplinary data. Sri Lankan *J of Applied Statistics*, 5, 29-50.

13) **Peiris, T. S. G.**, Fernando, M . T. N. and Samarajeewa, S. (2004). Factors influencing the use of coconut oil by the householders in Sri Lanka and their policy relevance to popularize the consumption, *International Journal of Coconut Research &Development(Cord), Indonesia.* 20 (2), 12-20.

14) Piyasiri, C. H., Pei**ris, T. S. G**. and Samita S. (2004). Change in rainfall and temperature of Low Country Wet Intermediate (IL1) Region of Sri Lanka. *Journal of Tropical Agricultural Research*, 16, 271-280.

15) **Peiris, T. S. G**., Peiris, T. U. S., and Rajapaksha, S. (2000). Prediction of annual national coconut production - a stochastic approach. *Sri Lanka J of Applied Statistics*, 1 (1), 25-32.

16) Peiris, T. U. S., **Peiris, T. S. G.,** and Samita. S (2000). Arrival of south-west monsoon rains. *Journal ofTropical Agricultural Research,* 12, 265-275.

17) **Peiris, T. S. G.,** Fernando, M. T. N. and Waidyanatha, U. P. de S (2001). Factors influencing the productivity of coconut estates. *J. of Coconut Research and Development (Cord)*, Indonesia, 17(2), 36 – 48.

18) **Peiris, T. S. G**. and Thattil, R. O. (1997a). Assessment of the effects of environmental factors on yield of coconut. *Cocos (Journal of the Coconut Research Institute,* Sri Lanka) 12, 1-18.

19) **Peiris, T. S. G**. and Thattil, R. O. (1997b). Alternative methods to determine optimal plot size for perennial tree crops. *Cocos,* 12, 44-54.

20) **Peiris, T. S. G**. and Thattil, R. O. (1996). Application of agro climatology to some aspects of Coconut research. *J. Plant. Crops* (Supplement) in India, 24, 24-35.

21) **Peiris, T. S. G**. and Thattil, R. O. (1994). An alternative model to estimate solar radiation. *Cocos* , 10, 26-34.

22) **Peiris, T. S. G**. and Pieris, R. A. A. (1991). The effect of bimonthly rainfall on coconut yield in the Semi Dry Intermediate Zone (IL₁) in Sri Lanka. *Cocos*, 9, 1-11.

23) **Peiris, T. S. G**. (1989). Forecasting the crop yield of a coconut estate. *International J. of Coconut Research & Development (Cord), Indonesia* 5(2), 67-77.

24) Pei**ris, T. S. G**. and Senaviratne, E. K. (1989). An alternative approach for analysis of data from a long term experiment. *Cocos*, 7, 14-20.

25) **Peiris, T. S. G**. and Stern, R. D. (1988). Use of statistics package `SAS' in an agricultural research institute: a case study from CRI, Sri Lanka. *Cocos.*6, 38-52.

5.4 *Presentations in Refereed Proceedings – Published as full paper/extended abstract*

1) Peiris, T. S. G., & Nanayakkara, K. A. D. S. A. (2017). Application of Adjusted Canonical Correlation Analysis (ACCA) to study the association between mathematics in Level 1 and

Level 2 and performance of engineering disciplines in Level 2. In *International Conference on Applied & Industrial Mathematics and Statistics (ICoAIMS), August 2017,* Malaysia

2) Silva, H.P.T.N and **Peiris T.S.G**. (2017). Statistical Modeling of Weekly Rainfall : A case Study in Colombo City in Sri Lanka, Proceedings of the 3rd Moratuwa Engineering Research Conference (MERCon), 29-31 May, Sri Lanka,241-246, IEEE

3) Nanayakkara, K. A. D. S. A., & **Peiris, T. S. G**. (2017). Identifying the Influence of Mathematics on Academic Performance of Engineering Students. In 3rd Moratuwa Engineering Research Conference (MERCon), 29-31 May, Sri Lanka, 247-252. IEEE.

4) Razmy A M and **Peiris, T. S. G** (2014). A Novel Joint Quality Monitoring Approach for Industrtial Application. Proceedings of the 1st Quality Symposium, Sri Lanka Standad Instituites, Colombo, 119-124.

5) Razmy A M and **Peiris, T. S. G.** (2013). Performance Comparison of Shewhart Joint Monitoring Schemes for Mean and Variance. Proceeding of the 19th National Engineering Conference, *19th ERU Symposium*, Faculty of Engineering, University of Moratuwa, Sri Lanka. Vol. 19, 99 -104

6) **Mathugama**, S. C. And **Peiris, T. S. G**. (2012). Modelling Onset of Critical Dry Spells in DL2 Region in Dry Zone Sri Lanka. Proceedings of the 2nd Regional Conference on Applied and Engineering Mathematics. Penang, Malaysia.719-725.

7) Razmy, A. M. and **Peiris, T. S. G.** (2012). A standard Method to compare combined Quality Monitoring Schemes using Average Raw length. Proceeding of the 2nd International Symposium. South Eastern University of Sri Lanka, 172-173.

8) Mathugama C. S. and **Peiris T. S. G.** (2010) Forecasting critical dry spell lengths in Anamaduwa. Proceedings of the 16th Annual Symposium of the Faculty of Engineering, 240-241.

9) Waidyaratne, K. P., **Peiris, T. S. G** and Samita S. (2010). Significance Changes of Seasonal Rainfall in Coconut Growing Area in Sri Lanka. *In Proceedings of the 3rd Symposium on Plantation Crop Research*. - 214-223, (*Eds:* R S Dharmakeerthi and A M W K Senevitahna), 30 September-01 October, Cinnamon Garden Hotel, Colombo, Sri Lanka

10) Mathugama C. S. and **Peiris T. S.. G** (2009) .Forecasting Dry Spells in DL1 - A Case study from Anamaduwa. Proceedings of the 15th Annual Symposium of the Faculty of Engineering, 123-124.

11) **Peiris, T. S. G.** (2008) Impacts Assessment due to Climate Change on the Coconut Industry in Sri Lanka. Proceedings of the 14th Annual Symposium of the Faculty of Engineering, 24-25

12) **Peiris, T. S. G.** (2005). Role of statisticians towards disaster management in climate. 28-35 pp, Proceedings of the 6th Annual General Meeting of the Applied Statistics Association of Sri Lanka, Prof. V K Samaranayake Auditorium, University of Colombo, Colombo, Sri Lanka.

13) **Peiris T. S. G**. (2004). Forecasting coconut production: issues, approaches, and challenges. *In Proceedings of the International Conference of Coconut Research Institute of Sri Lanka – Part I* (Review papers and guest presentations), 111 – 147 (*Eds*: T S G Peiris and C S Ranasinghe). The Coconut Research Institute of Sri Lanka, Lunuwila 61150, Sri Lanka.

14) Piyasiri, C. H., **Peiris, T. S. G** and Samita S. (2004). Empirical prediction of maximum and minimum air temperature in Sri Lanka. *In Proceedings of the International Statistical Conference: Visions of futuristic methodologies*. 371-379, (*Eds:* Basil M de Silva and NitisMukhopadhyay), 28-30 December 2004, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka.

15) **Peiris T. S. G**. and Mathes, D. T. (1997). The Analysis of long term rainfall variability at selected location in Sri Lanka. *Proceedings of the International Congress on Modeling and Simulation*, 06-11 December, 1997, Hobart, Australia. 69-74.

16) **Peiris, T. S. G**. (1993). The degree of influence of rainfall on coconut. *Advances in coconut research and development,* 413-420, (*Eds.* Nair, M. K., Khan, P. H., Gopalasundram, P. &BhaskaraRao, E. V. V.). Oxford & IBH Publishing Co. Pvt. Ltd.

5.5 *Presentation at Conferences/Communications – Published as an abstract*

1) **Peiris, T S G** (2017). Role of Statisticians in Promoting Good Governance. Proceedings of the 3rd International Statistics Conference, IASSL, (28-29) December, 2017, 81p.

2) Silva H P T N and **Peiris, T S G**. (2017). Modeling Weekly Rainfall: Problems Encountered. Proceedings of the 3rd International Statistics Conference, IASSL, (28-29) December, 2017, 91p.

3) Amarasinghe A A M D and **Peiris T S G** (2017). Impact of the Macroeconomic Variables on All Share Price Index: GARCH-X Approach. Proceedings of the 3rd International Statistics Conference, IASSL, (28-29) December, 2017, 113p.

4) Fernando K D U A, Peiris T U I and **Peiris, T S G** (2017). Determinants of the Banking Sector Development. Proceedings of the 3rd International Statistics Conference, IASSL, (28-29) December, 2017, 115p.

5) Nanayakkara S and **Peiris, T. S. G**. (2015). Influence of Mathematics in Level 1 on Students Performance in Engineering Programs: A Case Study. International Postgraduate Research Conference, University of Kelaniya, Sri Lanka, 10-11 December.

6) **Peiris, T. S. G**. (2014). Statisticians's Role in Climate Change in Sri Lanka. Proceedings of the International Statistics Conference. (28-30) December, Colombo, Sri Lanka, 100p.

7) Mathugama C. S. and **Peiris T. S. G.** (2014). Lengths of Critical Dry Spells in Sri Lanka. Proceedings of the Predicting International Statistics Conference 2014. (28-30) December, Colombo, Sri Lanka, 101p

8) Razmy A. M. and **Peiris T. S. G.** (2012). A Standard Method to Compare the Combined Quality Monitoring Schemes Using Average Run Length Properties. International, South Eastern University, 172-173.

9) Mathugama C. S. and **Peiris T. S. G.** (2012) .Impact of Dry Spells in Diaster Managment: Forecasting Aspects. Proceedings of the 4th InternationalConference on Geo Information Technology for Natural Diasaster Managment, 7-8 November, Colombo, Sri Lanka, 85p

10) Alibuhtto, M. C. and **Peiris, T. S. G**. (2012). Modelling CCPI Using Time Series ARIMA Model. Proceeding of the 1st Annual Research Conference - Emerging Issues in Management and Finance. Faculty of Management& Commerce, South Eastern University, 63p

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5.6 Feature Articles
1) **Peiris, T. S. G.** (2010). Statistical Thinking Towards & Decision Making in Engineering Application. First Newsletter of the Mathematical Society, Dept. of Mathematics, University of Moratuwa.

2) **Peiris, T. S. G**. (2004)**.** Short-term projections for coconut industry in Sri Lanka, *Economic Review*, Aug/Nov. 15-17.

3) **Peiris, T. S. G**. Sri Lankans are using more palm oils than coconut oil. www.cri.lk
4) **Peiris, T. S. G.** Is there a real shortage of coconut? Seedlings? www.cri.lk
5) **Peiris, T. S. G.** & Kularatne, J. D. J. S (2004).250 coconut palms are lost per day in Sri Lanka. www.cri.lk
6) **Peiris, T. S. G. (2007).** Impact of coconut mite on the coconut industry- www.cri.lk

5.8 Chapters and Books of Scholarly Work

Silva H.P.T.N., Dissanayake G.S., **Peiris T.S.G**. (2019) The Use of Fractionally Autoregressive Integrated Moving Average for the Rainfall Forecasting. In: Kreinovich V., Thach N., Trung N., Van Thanh D. (eds) Beyond Traditional Probabilistic Methods in Economics. ECONVN 2019. Studies in Computational Intelligence, Vol 809. Springer, Cham

Silva H.P.T.N., Dissanayake G.S., **Peiris T.S.G.** (2019) Modeling Persistent and Periodic Weekly Rainfall in an Environment of an Emerging Sri Lankan Economy. In: Kreinovich V., Sriboonchitta S. (eds) Structural Changes and their Econometric Modeling. TES 2019. Studies in Computational Intelligence, Vol 808. Springer, Cham

Peiris, T S G (2018). Handbook on Multivariate Analysis using SPSS, 124 pp. ISBN 9789559027638, https://www.expo-graphic.cpm/books

Peiris, T. S. G. (1999). **Chapter 8 - Database Management in Excel. Handbook on Survey Design and Analysis** (Editor. R. O. Thattil), Chapter 8, 52-64 pp. Postgraduate Institute of Agriculture, University of Peradeniya.

6. Teaching

6.1 At Present
Undergraduates in University of Moratuwa
- Probability and Statistics (Semester 2/Level 1),
- Quantitative Techniques in Transport and Logistics Management (Semester 4/ Level 2),
- Applied Statistics (Semester 5/Level 3)
- Time Series and Stochastic Process (Semester 7 & 8 / Level 4)
- Linear Model and Multivariate Analysis (Semester 7 & 8 / Level 4)

Postgraduates in University of Moratuwa - M Sc (Business Statistics)
- Probability and Statistics
- Statistical Modeling in Business
- Time Series Analysis for Business Forecasting
- Applied Multivariate Techniques in Business
- Analysis of Categorical data in Business

6.2 Already Ready Taught
Undergraduates in South Eastern University
- Advanced Experimental Designs
- Applied Multivariate Analysis

Postgraduates in University of Moratuwa (2010-2016)
M Sc (Operational Research)   Regression Analysis
                               Multivariate Statistics for Data Mining
M Sc (Financial Mathematics)   Econometrics and Multivariate Analysis
                               Introduction to Statistics

University of Moratuwa (Since 2010 to 2015)
M Sc in Energy   Mathematical Techniques
M Sc in Transportation   Quantitative Methods for Transport Analysis

PGIA, University of Peradeniya (Since 1997 to 2012)
M Sc in Bio Statistics -   Time Series Analysis
                               Regression Analysis
                               Multivariate Analysis
University of Colombo (2012 to 2014)
M Sc in Development Studies - Statistical Applications in Development Studies

8. Other Involvements in University of Moratuwa (August 2007 to date)
- Member of the Higher Degree Committee
- Member to serve as a Liaison Officer of multidisciplinary product incubator committee
- Member - Quality Assurance Cell
- Member - Faculty Curriculum Revision Committee
- Senior student advisor for first year students
- Member - Student Crisis Management Committee
- Member - Exhibition Committee of the Faculty of Engineering
- Member - Committee to propose a criteria to recognize students achievement at local and international competition
- Subject Coordinator - Level 4 Mathematics
- Course Coordinator - M.Sc./PG Diploma in Business Statistics
- Course Coordinator - M.Sc./PG Diploma in Operational Research
- Acting Head of Mathematics Department in two occasions

9. Main Functions at the Coconut Research Institute (September 1980 – August 2007)
- Provided specialist advice to the scientists in various disciplines on data collection, data analysis, interpretation of results, designing of field experiments & surveys and statistical computing;
- Developed strategies for ongoing management using statistical information;
- Developed a statistical model to forecast the annual and bi-monthly national coconut production nine months in advance. This method is still being used by the CRI and outcome is used for various policies planning in the coconut sector by Ministry of Plantation Industries, Central Bank and other agencies.
- Developed two survey methodologies: (i) to acquire yield data regularly from different coconut growers in collaboration of regional offices of the Coconut Cultivation Board and (ii) to acquire consumption of coconut nuts and coconut oil by householders in Sri Lanka in collaboration with Department of Census and Statistics and Divisional Secretaries. The

outcome of this is being used by stake holders to generate various policy decisions including Central Bank of Sri Lanka.

- Carried out research in Applied Statistics and Climate Change relevant to coconut industry
- Carried out collaborative projects with other research institutes and government department
- Carried out socio-economic surveys with other scientists and published associated reports ;
- Responsible for administration and management of the Division

11. Research Grants Acquired as a Principal Investigator

Project	Funding agencies	Year started
Evaluation of coconut subsidy programs	Plantation Ministry(CESS)	1997
Factors effecting on the performance of coconut estates	Plantation Ministry (CESS)	1996
Change of seasonal rainfall in SL	National Science Foundation (NSF)	1999
Impact of climate change on coconut in agro-ecological regions	Centre for Climate Change Studies Department of Meteorology	2001
Assessment of impacts and adaptation to climate change in coconut	International START Secretariat, USA (UNEP/GEF)	2002
Climate analysis in Hambantota District	Ministry of Environment & Natural Resources	2003
Regional climate variability	National Science Foundation (NSF)	2004
Diagnostic survey on CRI recommendations	Plantation Ministry (CESS)	2004
Effect of different frequency of harvest	Plantation Ministry (CESS)	2005
Consumer survey on coconut oil and coconut	Plantation Ministry (CESS)	2005
Data capturing survey towards forecasting & updating national bi-monthly coconut yield	Plantation Ministry (CESS)	2006
Estimation of weekly rainfall in the selected AEZ in Sri Lanka: Geostatistical Approach	Senate Reserach Committee (SRC), Univ of Moratuwa	2010
Forecasting Dry Spells in Dry Zone of Sri Lanka	National Research Council (NRC)	2011
Impact of IT on the performance of Mathematics in Engineering Students in Level 1	Senate Reserach Committee (SRC), Univ of Moratuwa	2012

12. Overseas Scientific Visits

Country	Place/s	Period	Purpose

UK	Department of Applied Statistics (University of Reading), and various research organization in UK and Scotland.	Jan- Jun, 87	Fellowship - Familiarization tour on the application of Biometrics and use of SAS for agriculture research in UK
Italy	Brissonne/Brixen	(2- 8), Sep 89	International conference*
Malaysia	Universiti Teknologi Malaysia, Johor Bahru, Malaysia	(25–31) Aug 90	International conference*
India	National Academy of Agricultural Research Management, Hyderabad,	(16-30) Sep 90	International Workshop on MIS for Agricultural Research.
India	Central Plantation Crops Research Institute (CPCRI), Kerala.	(23- 29) Aug 91	International conference*
New Zealand	University of Otago, Hamilton	(05 - 13) Dec 92	International conference*
India	ICRISAT, Hyderabad	(01 - 14) Sep 94	Fellowship
UK	Silsoe College, Bedford	(15 Sep – 10 Oct) 94	Visiting Fellow
UK	University of Newcastle Upon Tyne, Newcastle	(12-16) Oct 94	International conference*
India	Calicut, Kerala	(23- 29) Nov 94	International conference*
Malaysia	Kuala Lumpur, Malaysia.	(04-10) Dec 95	International conference*
Australia	Hobart, Tasmania	(04-19) Dec 97	International conference*
USA	Washington D C.	(25-30) Jun 99	International conference*
UK	Bio-Mathematics Dept. IACR-Rothamsted, Harpenden (on sabbatical leave from CRI)	Oct 2001 – June 2002	Visiting Fellow (Sabbatical leave)
Germany	Freiburg,	June 2002	International Conference*
Italy	Pascoli,	(16-20) Sep, 2002	International conference*
USA	Int. Research Inst. for Climate Prediction, Palisades, New York	01-23 Nov, 2003	Visiting Fellowship
Philippines	Conference in Passay city & Philippines Coconut Authority	01-08 Nov, 2004	International Workshop*; Visit Philippines Coconut Authority
Australia	Conference in Statistics, Cairns	21-29 July, 2006	International Conference*
USA	University of Maryland Baltimore Country (UMBC)	(Aug – Sep.), 2015	Visiting Professor (sabbatical leave)
USA	The International Conference on Biological and Environmental Science (BIOES-16)jointly in New Jursy	(8-10) November, 2015	International Conference*
Bangladesh	Department of Mathematics, Bangladesh University of Engineering & Technology (BUET)	20-24 November, 2016	As foreign expert in quality assurance

Malaysia	First International Conference on Applied and Indistrial Mathematics and Statistics	(7-11) August 2017	International Conference*
Bangladesh	University of Rajshahi, Rajshahi 6205, Bangladesh	(13-31) November, 2017	As foreign expert in quality assurance
Bangladesh	Jahangirnagar University, Savar, Dhaka, Bangladesh.	(6-16) January, 2018	As foreign expert in quality assurance
Bangladesh	Islamic University.	April 2018	As foreign expert in quality assurance
Taiwan	National Chengchi University.	(6-16) May, 2018	As a visiting professor
USA	University of Maryland Baltimore Country (UMBC	Sep. 20189 – March2019	As a visiting professor (sabbatical leave)

* To present a paper

13. Two Non Related Referees

Referee 1	Referee 2
Prof. A K W Jayawardena Former Vice Chancellor in University of Moratuwa Director General National Science Foundation, Maitland Place, Colombo 07 Email: ananda@uom.lk Tel: 0777688865	Prof. K K C K Perera Vice Chancellor University of Moratuwa Katudedda Moratuwa 10400 Email: vc@uom.lk, kapila@uom.lk Tel: 0714472789

Prof. T S G Peiris
08 May 2019