

Curriculum Vitae

Prof. T. S. G. Peiris; BSc, M Sc, Ph D, FRSS

Professor in Applied Statistics

Head of the Department of Mathematics

University of Moratuwa



Contact Information

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1. Research Interest: Applied Statistics

1.1 Areas of Research

- Data Mining Techniques in Multivariate Statistics
- Regression Modelling
- Climate Change Analysis and Assessment
- Time Series Forecasting

1.2 Supervision of Research Students (Ph D/M Phil)

Completed : 2 - Ph Ds, and 7 - M Phils

On Going: 2 – Ph Ds, 1 M Phil

1.3 Supervision of M Sc Taught Course Projects

Completed: About 25

On Going: 13

2. Educational & Professional Qualification

2.1 Educational

- 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

- Fellow of Royal Statistics Society (FRSS)
- Council Member of the Institute of Applied Statistics in Sri Lanka (IASSL)
- President of the IASSL in 2014
- Visiting Professor in University of Maryland Baltimore County (UMBC), USA from 15 August 2015 – 14 October, 2015

3. Career Development

Dept. of Engineering Mathematics, Faculty of Engineering, University of Peradeniya

- Temporary Instructor (Oct 1979 - Sep 1980)

Biometry Division, Coconut Research Institute (CRI), Lunuwila

- 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

- Senior Lecturer Grade I (Aug 2007 - Jan 2011)
- Professor in Applied Statistics (Jan 2011 - to date)
- Professor and Head, Depart. Of Mathematics (Jun 2012 - to date)

4. Experience

- Thirty years (31) years of post-qualifying experience of statistical analyses in various fields.
- Member of the Committee of Subject Benchmark Statements for Mathematics and Statistics in University Grant Commission
- Statistical advisory for various organization
- 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
- National Reviewer in Subject/Programme Review Assessments conducted by the Quality Assurance & Accreditation Council of the University Grant Commission (UGC) 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.
- Editor of the International Conference Proceedings
- Teaching experience for post graduates and under graduates
- Supervising projects for post graduate research students and post graduate taught course students
- Competent in the use of statistical packages such as SAS, SPSS, Minitab and EViews and good in SAS programming
- 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

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 NimalAppuhamy, 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) 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 of Health and Quality of Life* (Accepted)
- 2) 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.
- 3) 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.
- 4) 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.
- 5) 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.
- 6) Razmy, A. M. and **Peiris, T. S. G.** (2013). Design of Exponentially Weighted Moving Average Chart for Monitoring Standardized Process Variance. *International Journal of Engineering and Technology*. Vol 13 , 74-78.
- 7) 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.
- 8) 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

- 9) **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.
- 10) 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*, Netherlands. 37, 123-129.
- 11) 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.
- 12) 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
- 13) Fernando, L.C.P., Aratchige, N. S., **Peiris, T. S. G.** (2003). Distribution patterns of coconut mite, *Aceria guerreronis* and its predator *Neoseiulus aff. paspalivorus* in coconut palms. *J. of Experimental and Applied Acarology*. 31, 71-78.
- 14) **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.
- 15) **Peiris, T. S. G.**, Thattil, R. O., and Mahindapala, R. (1995). An analysis of the effect of climate and weather on coconut (*Cocos nucifera*). *J. of Experimental Agriculture*, 31 (4), 451-460.
- 16) **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) Mathugama, S. C. and **Peiris, T. S. G.** (2016). Use of ESACF and SCAN methods to develop ARIMAX(p,d,q,b) to model critical lengths of dry spells in Anamaduwa, Sri Lanka. (Paper submitted to the Sri Lankan Journal of Applied Statistics)
- 2) Razmy, AM and **Peiris, T. S. G.** (2013). Design of Exponentially Weighted Moving Average Scheme for Standardized Means. Sri Lanka Journal of Applied Statistics. Vol (14-2), 145-152.
- 3) **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

- 4) 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 (CORDCORD)*, 24(2), 10-20.
- 5) 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.
- 6) 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.
- 7) **Peiris T. S. G.**, K. P. Waidyaratne, 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.
- 8) Pathirage Anuradha Nirranji, 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
- 9) 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.
- 10) 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.
- 11) **Peiris, T. S. G.** (2005). Spatial aggregation of multidisciplinary data. *Sri Lankan J of Applied Statistics*, 5, 29-50.
- 12) **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.
- 13) Piyasiri, C. H., **Peiris, 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.
- 14) **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.
- 15) 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.
- 16) **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.

- 17) **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.
- 18) **Peiris, T. S. G.** and Thattil, R. O. (1997b). Alternative methods to determine optimal plot size for perennial tree crops. *Cocos*, 12, 44-54.
- 19) **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.
- 20) **Peiris, T. S. G.** and Thattil, R. O. (1994). An alternative model to estimate solar radiation. *Cocos* , 10, 26-34.
- 21) **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.
- 22) **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.
- 23) **Peiris, T. S. G.** and Senaviratne, E. K. (1989). An alternative approach for analysis of data from a long term experiment. *Cocos*, 7, 14-20.
- 24) **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) Nanayakkara K A D S A and **Peiris, T. S. G.** (2017). Identification the Influence of Mathematics on Academic Perfomance Engineering Students. Proceedings of the ERU Symposium, University of Moratuwa, IEEE .
- 2) Waidyaratne, K P and Peiris, T S G (2016). Effect of Frequency of Harvesting in Farmer's Field in Different Land Suitability Classese of Coconut. Proceedings of the 6th Symposium on Plantation Crop Resarch, (2-4) November, BMICH, Colombo.
- 3) 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 (978-1-5090-0645-8)
- 4) Razmy A M and **Peiris, T. S. G** (2014). A Novel Joint Quality Monitoring Approach for Industrtrial 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) 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.
- 2) **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.
- 3) 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
- 4) 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.
- 5) 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
- 6) 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
- 7) **Peiris, T. S. G.** (2011) Measuring Stock Market Volatility in an Emerging Economy. International Conference on Business and Information. Faculty of Commerce and Management Studies, University of Kelaniya.
- 8) Mathugama, S. C. and **Peiris, T. S. G.**(2010). Minimizing of vulnerability caused by extended dry spells. *Proceeding of the 2nd National Symposium on Disaster Risk Reduction and Climate Change Adaptation*, 13-14 October, Sri Lanka Foundation Institute, Sri Lanka, 14p
- 9) **Peiris, T. S. G.** (2010). A study of future climate in Sri Lanka. Proceedings of the 2nd National Symposium on Disaster Risk Reduction & Climate Change Adaptation, 13-14 October, SLFI, Colombo, 47p

- 10) Mathugama, S. C. and **Peiris, T. S. G.** (2009). Analysis of the occurrence of dry spells in the DL2 region of Sri Lanka, Proceeding of the International Statistics Conference, 8-10 January, Sri Lanka Foudation Institute, Sri Lanka, 10p
- 11) D. C. Wickramarachchi, S. Samita and **Peiris, T. S. G.** (2009). An Algorithm to detect over-dispersion in multinomial data. Proceeding of the International Statistics Conference, 8-10 January, Sri Lanka Foundation Institute, Sri Lanka, 21p
- 12) **Peiris, T. S. G.** (2006). Impact of climate change on coconut industry in Sri Lanka. Paper presented at the 3rd International conference on Climate Impact and Assessment (TICCIA), 24-27 July, Cairns, Australia.
- 13) Kularatne, J. D. J. S.,**Peiris, T. S. G.** and Mathes, D. T. (2004). Long-term climate variability in Hambantota. 71, *InProceedings of the International Sri Lankan Statistical Conference.* (Eds: Basil M. de Silva and NitisMukhopadhyay), 28-30 December 2004, Post Graduate Institute of Science, University of Peradeniya, Sri Lanka.
- 14) **Peiris, T. S. G.**, Larref Zubair, Piyasiri, C. H. (2004). Forecasting national coconut production – a novel approach. *InProceedings of the International Sri Lankan Statistical Conference.* (Eds: Basil M. de Silva and Nitis Mukhopadhyay), 28-30 December 2004, Post Graduate Institute of Science, University of Peradeniya, Sri Lanka.
- 15) **Peiris T. S. G.**, Madawala Wijeratne, Annada Kumaraswamy, A. Ranasinghe, C. S., Jayakody, A. and Fernando, M. T. N. (2004) Impact of climate change in Sri Lanka on coconut and tea industry. *Paper presented at the 2nd AIACC Asia and the Pacific Regional workshop on assessment of climate change impacts.* 2-5 November, Traders hotel, Passay City, Philippines.
- 16) **Peiris, T. S. G.** and Kularatne, J. D. J. S. (2004). Analysis of climate change in Hambantota district in Sri Lanka. *In Proceedings of the International conference on Sustainable Water Resources Management in Changing Environment of the Monsoon Region* (Eds: Srikantha Herath, AsselaPathirana and S. B. Weerakoon), 17-19, November, BMICH, Colombo, Sri Lanka.
- 17) **Peiris, T. S. G.** and Janet Riley (2002). Aggregation of multidisciplinary indicators in space. *Proceeding of the International Biometrics Conference* held during 21–26 July, Freiburg, Germany,
- 18) **Peiris, T. S. G.** (2002). Effect of temporal scale aggregation on climate change studies”. *Proceeding of the International Workshop on Regional Integrated Assessment of Climate Impacts* held at the IL_CIOCCO Hotel, 16-20 September, CastelvechioPascoli, Italy.

- 19) **Peiris, T. S. G.** and Fernando, M. T. N. (2000). Trend in nut production and utilization. *Proceedings of the conference on coconut industry - meeting the new challenges*. 27 June, BMICH, Colombo.
 - 20) Fernando, M. T. N. and **Peiris, T. S. G.** (2000). Some economic consideration of coconut production and processing. *Proceedings of the conference on coconut industry - meeting the new challenges*, 27 June, BMICH, Colombo.
 - 21) **Peiris, T. S. G.** (2000). The role of coconut industry in Sri Lanka towards the world trend on kernel products. *The Proceeding of the International Conference on Plantation Crops*, Green Park, Hyderabad, India, 21p.
 - 22) Fernando, M. T. N. and **Peiris, T. S. G.** (2000). Import duty reduction for substitute oils and its implications on coconut oil industry in Sri Lanka. *The Proceeding of the International Conference on Plantation Crops*, Green Park, Hyderabad, India, 22p.
 - 23) Somasiri, L . L. W., **Peiris, T. S. G.**, Wijebandara, D .M. D. I., and Bandara, E. M. A. T. (1999). Status of exchangeable bases of the upland soils of the Kurunegala catena of the coconut triangle. *Proceedings of the 55th Annual Session of the SLAAS*, 57 pp.
 - 24) **Peiris, T. S. G.** (1999). A stochastic model to predict national coconut yield. *Proceedings of the International Symposium on Forecasting*, 27-30 June, 1999, Washington D C, USA. 35p.
 - 25) **Peiris, T. S. G.** and Thattil, R. O. (1997). Climate analysis - the effect of climate on coconut. *Proceedings of the National Symposium of Climate Change*, 7-8 March, Colombo, Sri Lanka.
 - 26) **Peiris, T. S. G.** and Mathes, D. T. (1997). Rainfall changes scenarios in coconut growing areas in Sri Lanka. *Proceedings of the National Symposium of Climate Change*, 7-8 March, Colombo, Sri Lanka
 - 27) **Peiris, T. S. G.** and Thattil, R. O. (1995). The analysis of climate system: Parsimonious crop-weather model. *Proceedings of the 6th International Conference on Environmetrics*, 6-9 December, Malaysia.
 - 28) **Peiris, T. S. G.** (1997). Evaluation of subsidy programmes in coconut and technology transfer. A paper presented to the International Workshop on Technology Development and Transfer in Coconut, 1-5 April, Lunuwila, Sri Lanka
 - 29) **Peiris, T. S. G.** and Thattil, R. O. (1994). Use of dimensional reduction methods for selection of variables in agro meteorology aspects on coconut. *Proceedings of the International Conference of the Royal Statistical Society*, held at the university of Newcastle Upon Tyne, 12-16 September, 121 p.
 - 30) **Peiris, T. S. G.** and Thattil, R. O. (1994). Application of Agro meteorology to some aspects of coconut research. *Proceedings of the International Symposium on Plantation Crops*, held at the Calicut, Kerala, India, 30 November - 03 December, 5p.
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- 31) **Peiris, T. S. G.** and Thattil, R. O. (1993). Estimation of solar radiation at Lunuwila ($7^{\circ} 20' N$, $71^{\circ} 53'E$, 30.5 m). *Proceedings of the 49th Annual Session of the SLAAS*, 191 p.
- 32) **Peiris, T. S. G.** and Thattil, R. O. (1992). Determination of optimum plot size for coconut based on data from randomized complete block experiments. *Proceedings of the Int. Biometrics Conference*, held in 7-11 December in Hamilton, New Zealand, 179 pp.
- 33) **Peiris, T. S. G.** and Thattil, R. O. (1992). Alternative methods to determine the optimum plot size for tree crops. *Proceedings of the 48th Annual Session of the SLAAS*, 55 pp.
- 34) **Peiris, T. S. G.** (1991). Modeling approach in analyzing field experimental data in coconut. *Proceedings of the 47th Annual Session of the SLAAS*, 139 pp.
- 35) **Peiris, T. S. G.**, Kularatne, J. D. J. S. & Mathes, D. T. (1990). CLIMATE: A user friendly program to analyse climatological variables for agricultural purposes". *Proceedings of the 46th Annual Session of the SLAAS*. 139 pp.
- 36) **Peiris, T. S. G.** and Senaviratne, E. K. (1989). The use of daily rainfall in analysis of the repeated measurements data. *Proceedings of the 45th Annual Session of the SLAAS*. 39 pp.
- 37) **Peiris, T. S. G.** (1989). *An alternative approach to analyze the repeated measurements data in perennial crops. Proceedings of the conference on Statistics for Repeated Measurement in Italy from 6-9 September, 1989, University of Paduva, Italy.*
- 38) Jayasekara, K. S., Liyanage, M. de. S. and **Peiris, T. S. G.** (1988). Effect of intercropping on soil erosion and runoff in coconut lands. *Proceedings of the 44th Annual Session of the SLAAS*, 35 pp
- 39) **Peiris, T. S. G.** (1988). Software in micro computers for the analysis of designed experiments. *Proceedings of the 8th National Computer Conference, Sri Lanka*, 77 pp.
- 40) **Peiris, T. S. G.** (1987). SAS - a micro computer software for agricultural research. *Proceeding of the 43rd Annual Session of the SLAAS*, 120 pp.
- 41) **Peiris, T. S. G.** (1986). Seasonal ARIMA model for forecasting crop-wise coconut yield in a given estate. *Proceedings of the 42nd Annual Session of the SLAAS*, 174 pp.
- 42) Thilakasiri, M. A., **Peiris, T. S. G.** & Gunasekara, T. G. L. G. (1986). Some socio economic characteristics of coconut based farming systems. *Proceedings of the 42nd Annual Session of the Sri Lanka Association of Advancement of Science (SLAAS)*, 197 pp.

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

5.7 *As an Editor in Conference Proceedings*

- 1) **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
- 2) **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
- 3) **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.
- 4) **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.
- 5) **Peiris, T. S. G. & Ranasinghe, C. S.** (2004). Abstracts of International Conference of CRISL 1-85.
- 6) **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.

5.8 *Chapters in a Handbook as a Supplementary Reading*

- 1) **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 / Taught Modulus

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)

Undergraduates in South Eastern University

- Advanced Experimental Designs
- Applied Multivariate Analysis

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
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
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University of Colombo (2012 to 2014)

M Sc in Development Studies - Statistical Applications in Development Studies

7. 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

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

10. Supervision of Post Graduate Research Degrees

10.1 Completed

Name of the student	Degree	Year	University
Dr. A M Razmy	Ph D	2015	Univ. of Moratuwa
Dr M C Mathugama	Ph D	2013	Univ. of Moratuwa
Mr Ali Buhto	M Phil	2013	PGIA
Mr. D C Wickramarachchi**	M Phil	2010	PGIA, Univ. of Peradeniya
Mrs. W P Waiudayarathne	M Phil	2010	PGIA, Univ. of Peradeniya
Mrs. P S Yatapana**	M Phil	2009	Univ. of Colombo
Mr. J D J S Kularatne	M Phil	2008	PGIA, Univ. of Peradeniya
Ms. T U S Peiris	M Phil	2004	PGIA, Univ. of Peradeniya

** Co-supervisor

10.2 On going Post Graduate Research

University of Moratuwa ([Ongoing Post Graduate Research](#))

- Ph D – Mr A Alibhutto (Univ. of South Eastern University, SL)
- Ph D – Mrs H P T N Silva (Univ. of Sri Jayawardenapura)
- M Phil – Miss K A D S A Nanayakkara
- 13 M Sc Projects - Taught M Sc Degrees

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

Influence of Mathematics in S1 & S2 Senate Reserach Committee (SRC), 2015
on other Engineering subjects in Univ of Moratuwa
S3, S4

12. Professional Activities (Past)

- Past President of the Institute of Applied Statistics Sri Lanka (IASSE)
- Member of the Research Evaluation Committee of the Hector Kobbekaduwa Agrarian Research and Training Institute (HARTI)
- Statistical Advisor for HARTI
- Statistical Advisor, Antileprosy Campaign, Ministry of Health
- Statistical Consultant, Department of Census and Statistics, Sri Lanka
- Member, Technical Advisory Committee of the Center for Climate Change Studies (CCCS), Department of Meteorology in 2001/2002
- Member of the Working Group of the National Action Plan on Climate Change.
- Member of the Board of Study in Bio-Statistics at the Post Graduate Institute of Agriculture (PGIA), University of Peradeniya, Sri Lanka from 1997 to 2011

13. 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),	(23- 29) Aug 91	International conference*

	Kerala.		
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	Fellowship
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	International conference*
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	Fellowship
Philippines	Conference in Passay city & Philippines Coconut Authority	01-08 Nov, 2004	International Workshop*; Visit Philippines Coconut Authority
Australia	Cairns	21-29 July, 2006	International Conference*
USA	University of Maryland Baltimore Country (UMBC)	August – September, 2015	Visiting Professor

* To present a paper