

RAVINDI THARANGA JAYASUNDARA

5/8, Weragama Road, Wadduwa.

Tel: 0718146791/0777229993

E-mail: ravindij@yahoo.com

EDUCATION

University of Moratuwa, Sri Lanka

MSc. in Operational Research – 01st April 2010

University of Colombo, Sri Lanka

**Bachelor of Science (Statistics)(Honors) – 01st September
Second Class Upper Division**

EXPERIENCE

- **University of Moratuwa**

Lecturer (Probationary), Department of Mathematics, Faculty of Engineering.
(2008 - To date)

- MA 1023 – Probability and Statistics
- MA 3012 – Applied Statistics
- MA 4020 – Operational Research
- MA 2040 – Discrete Mathematics

Other responsibilities:

- Coordinator – First year undergraduates (2008-2009)
- Coordinator(Mathematics) - Second year undergraduates (2008-2010)
- Group Coordination in the pre-academic period (2009-2011)
- Organizing the Inauguration Ceremony and Orientation program (2009-2013)

Postgraduate teaching :

- CS 5650: Statistical Analysis (1.5 Credits) for Master Of Science / PG Diploma in Computer Science, Faculty of Engineering, University of Moratuwa
- Computing for Business and Management for MSc. in Operational Research, University of Moratuwa (Batch 2009/2010)

- **University of Colombo**

Temporary Tutor, Department of Statistics, University of Colombo (2006 to 2007).

- Conducted tutorials classes on Distribution Theory, Sampling Techniques and Statistical Inference.
- Taught Operational Research for undergraduates at University of Colombo, School of Computing offered by the Department of Statistics.

Postgraduate teaching:

Masters of Information Systems Management, Faculty of Graduate Studies, University of Colombo

- Research methodology and Statistics

MSc. in Applied Statistics, Faculty of Science, University of Colombo

- MAS 5503: Medical Statistics (2 credits)
- MAS 5602: Multivariate Methods (2 credits)
- External examiner and a reviewer of M.Sc. projects (Batch 2008)

- **Northshore College of Business and Technology, Sri Lanka.**

(A partnership programme of University of the West of England)

- Analytical Modeling for BSc.(Hons) Software Engineering

- **Institute of Engineers, Sri Lanka (IESL)- (Visiting Basis)**

- Conducted a lecture series of Operational Research for Part III students in 2009, on visiting basis.

- **Asia Pacific Institute of Information Technology (APIIT City Campus), Sri Lanka**

Lecturer (2006).

Undergraduate teaching and supervision:

- Quantitative Methods for Business.
- Numerical Methods and Logic
- Critical Thinking for Business
- Supervised research projects with a substantial component of Statistical analysis.

- **Oxford College of Business, Colombo 03(Visiting Basis)**

- Quantitative Methods for Business on part time basis in 2006.

- **Colombo Stock Exchange**

Executive, Department of Listings and Surveillance (2005).

Duties and Responsibilities Handled:

- Investigating unusual movements in share trading and producing reports for the Securities and Exchange Commission on such investigations.
- Performance of statistical analysis on share trading data using MS Excel and reporting the findings to the Head of Listings & Surveillance who is a senior member of the management team of the CSE.
- Updating the CSE Database (Central Depository System – CDS) for Dividend Announcement made by the listed companies.

PUBLICATIONS

- Jayasundara R, Magalla C. H., Accidents involving guilty car drivers in Sri Lanka, *Proceedings of Engineering and technical Sciences: International Research Conference 2014, Sir John Kotelawala Defence University, Sri Lanka*, (pp.117-121).
- Kanaganayagam, I., Fernando, S. & Jayasundara, R. (2014). Analysis of the Effectiveness of Collaborative e-Learning (CeL) in Sri Lankan University Education. In T. Bastiaens (Ed.), *Proceedings of E-Learn: World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2014* (pp. 932-942). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Firdhouse M, Jayasundara R (2011), A Decision Support Tool for Inferring Further Education Desires of Youth in Sri Lanka, *International Journal of Advanced Computer Science and Applications (IJACSA)*, June 2011 Volume 2, Issue 6 IJACSA.
- R Jayasundara, M.R. Sooriyarachchi, (2006). Factors affecting the formation of Cataract, *Proceedings Technical Session E1: 62nd Annual Sessions of SLAAS*.

RESEARCH EXPERIENCE AND PRACTICAL WORK

- **MPhil research:** *Statistical model for inflated Poisson data to identify the number of vehicles involved in traffic accidents in Sri Lanka.*
Poisson Regression is a modeling technique that is used to identify frequency distributions of accidents. The data shows an inflation of two in the number of vehicles involved in accidents. An objective of the research is to provide a better statistical model that identifies the effect of inflation of a single response category in Poisson data. Computations are implemented in R.
- **Master's project:** *A decision support tool for inferring higher educational desires of youth in Sri Lanka.*
Binary logistic models were applied to model the data obtained from the National youth Survey, Sri Lanka. Decision Tree Analysis in Data Mining was used to generate the decision support criteria. All computations were implemented in SAS and .net.
- **Undergraduate project:** *Factors affecting the formation of cataract.*
Descriptive methods and logistic regression model were used for the analysis of data collected from a survey on cataract patients who were treated at the National Eye Hospital, Sri Lanka. Main objective of the study was to investigate whether Bio Mass Smoke has an

impact on the formation of Cataract among Sri Lankan. Analyses were conducted using SAS and SPSS.

- Engaged in Duplication handling in Human Rights Violation data at The Asia Foundation, Sri Lanka.
- Conducted a short-term training course on Statistical Analysis for Engineers in Tokyo Cement (Pvt) Limited, Sri Lanka in 2007.
- Gained three-month training from the Department of Statistics, Central Bank of Sri Lanka.
- Completed the Staff Development Course conducted by University of Kelaniya, 2012.

MEMBERSHIP

- A life member of the Applied Statistics Association, Sri Lanka.
- Member of Sri Lanka Association for the Advancement of Science (SLAAS).

REFERENCES

(1) Dr. M.D.T.Atygalle, B.Sc. (Colombo), M.Sc.(Warwick), Ph.D. (Lancaster)

Head of the Department
Senior Lecturer,
Department of Statistics,
Faculty of Science,
University of Colombo,
Sri Lanka.
Office Tel: +94 112 590 111
Mobile: +94 773 862 350
dilhari@stat.cmb.ac.lk

(2) Dr. C.D.Thillakarathne, B.Sc.(Colombo), M.Sc.(Colombo),
MIT by Research (Ballarat,Australia), PhD (Ballarat, Australia)

Senior Lecturer,
Department of Statistics,
Faculty of Science,
University of Colombo,
Sri Lanka.
Office Tel: +94 112 590 111
Mobile: +94 777 872 856
cdt@stat.cmb.ac.lk

I hereby declare that the above particulars furnished by me are true and correct to the best of my knowledge.