

# Chathuri Lakshika Jayasinghe

## Academic Qualifications

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**2010 – 2013 Doctor of Philosophy (Statistics)**

RMIT University, Melbourne, Australia

**2008 – 2009 Master of Applied Sciences (Statistics and Operations Research) with distinction**

RMIT University, Melbourne, Australia

**2002 – 2007 Bachelor of Science - Honours in Statistics (First class)**

Faculty of Applied Sciences, University of Sri Jayewardenepura, Sri Lanka

## Employment

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**2015 Dec- Present**      **Head/Senior Lecturer**, Department of Statistics, Faculty of Applied Sciences, University of Sri Jayewardenepura, Sri Lanka

**Teaching (undergraduate):**

STA 318 2.0 Advanced Distribution Theory

STA 322 2.0 Medical Statistics

STA 486 2.0 Survival Analysis

**Teaching (postgraduate):**

STA 505 2.0 Medical Statistics (Postgraduate Certificate in Applied Statistics)

STA 530 2.0 Survival Analysis (MSc in Applied Statistics)

**Administrative Duties:**

2022 Sep - present      Head, Department of Statistics, Faculty of Applied Sciences, USJ

2016 Mar - 2021 Mar      Postgraduate program coordinator (Applied Statistics)

2016 - 2020      Internship Program Coordinator, Department of Statistics

2016 - Present      Department coordinator, Prospectus revision committee

2016 - 2021 Mar      Member, Study Board of Physical Sciences, Faculty of Graduate Studies, University of Sri Jayewardenepura

2016 - Present      Member, Study Board of Multidisciplinary Studies, Faculty of Graduate Studies, University of Sri Jayewardenepura

**2015 Jan- Nov**      **Research Associate**, RMIT University, Australia

**Project 1:** on estimation of parameters of a Software Reliability Growth Model (SRGM) with Prof. Panlop Zeephongsekul (RMIT University, Australia) and Assistant Professor Lance N. Fiondella (University of Massachusetts, USA)

**Project 2:** on analysis of Australian aging data with Prof. Panlop Zeephongsekul (RMIT University, Australia)

**2014 Mar- 2015 Nov**      **Tutor**, RMIT University, Australia

Tutor for MATH 2123, MATH 2114 and MATH 2200 courses conducted by the School of Mathematical and Geospatial Sciences, RMIT University.

## Research Interests

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Survival analysis, nonparametric statistics and estimation methods, reliability theory, applications of survival analysis

## Scholarships and Awards

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2020	President's Awards for Scientific Research, National Research Council, Sri Lanka
2018	Research Awards 2018, University of Sri Jayewardenepura, Sri Lanka
2017	NRC Merit Awards for Scientific Research, National Research Council, Sri Lanka
2017	Research Awards 2017, University of Sri Jayewardenepura, Sri Lanka
2010	Endeavour International Postgraduate Research Scholarship (funded by the Commonwealth Government of Australia)
2010	RMIT University living expense scholarship for international research students
2010	Recipient of the University of Melbourne International Fee Remission Scholarship
2010	Recipient of the University of Melbourne International Research Scholarship
2010	Recipient of the La Trobe University Postgraduate Research Scholarship
2010	Recipient of the La Trobe University Full Fee Research scholarship
2009	RMIT University Vice-chancellor's list award
2009	Best student Award, Master of Applied Sciences (Statistics and Operations Research), RMIT University, Australia
2007	Professor R.A. Dayananda Gold Medal for the best student in Statistics Honours Degree, University of Sri Jayewardenepura, Sri Lanka (Convocation held on the November 26 <sup>th</sup> -27 <sup>th</sup> , 2007)

## Peer Reviewed Journal Publications

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- Hewamana, S., Gunasena, P., **Jayasinghe, C.**, Skandarajah, T., Harischandra, M., Abeyaratne, S., ... & Balawardena, J. (2022). Response and Survival Estimates of Patients With Plasma Cell Myeloma in a Resource-Constrained Setting Using Protocols From High-Income Countries: A Single-Center Experience From Sri Lanka. *JCO Global Oncology*, 8, e2100352.
- De Silva, D., Silva, R. M., & **Jayasinghe, C. L.** (2022). A Study of Batting out-of-form in One-Day International Cricket. *Studies of Applied Economics*, 40(1).
- Kottearachchi, S. S., **Jayasinghe, C. L.**, & Silva, R. M. (2022). An Investigation of Survival Abilities of Opening Batsmen in One-Day International Cricket. *Studies of Applied Economics*, 40(1).
- Jayasinghe, D. Y., & **Jayasinghe, C. L.** (2022). An investigation into adult human height distributions using kernel density estimation. *Sankhya B*, 84(1), 79-105.
- Marasinghe, S., Perera, P., Newsome, D., Kotagama, S., & **Jayasinghe, C.** (2022). Understanding the impact of recreational disturbance caused by motor vehicles on waterbirds: a case study from the Bundala Wetland, Sri Lanka. *Journal of Coastal Conservation*, 26(2), 1-21.
- Perera, P., Karawita, H., & **Jayasinghe, C.** (2022). The applicability of camera trap data to monitor the cryptic Indian pangolin (*Manus crassicaudata*) populations: A survey from a tropical lowland rainforest in Southwest Sri Lanka. *Global Ecology and Conservation*, 34, e02046.
- Hewamana, S., Skandarajah, T., **Jayasinghe, C.**, Deshapriya, S., Senarathna, D., Arseculeratne, G., ... & Balawardena, J. (2021). Blood cancer care in a resource limited setting during the Covid-19 outbreak; a single center experience from Sri Lanka. *PloS one*, 16(9), e0256941.
- Hewamana, S., Kandabadage, L., Skandarajah, T., Peiris, N., Abeyaratne, S., Arseculeratne, G., ... & Balawardena, J. (2021). Applicability of protocols from high-income countries in a resource limited setting; real world data of histopathology, clinical features and long-term outcome of Hodgkin Lymphoma in Sri Lanka. *EClinicalMedicine*, 38, 100998.
- Hewamana, S., Skandarajah, T., **Jayasinghe, C.**, Deshapriya, S., Senarathna, D., Gayashan, D., ... & Balawardena, J. (2021). Adapting Supportive Care Guidelines from High-income Countries; Real World Data on Approach to Neutropenic Sepsis in Haemato-Oncology Patients in Sri Lanka.
- Gunarathne, L., & **Jayasinghe, C. L.** (2021). Factors affecting unemployment duration of the science and arts stream university graduates in Sri Lanka. *Advanced Journal of Social Science*, 8(1), 96-120.
- Hewamana, S., Kandabadage, L., Skandarajah, T., Pieris, N., Perera, E., Harischandra, M., ... & Balawardena, J. (2021). Applicability of Western protocols in resource-limited setting: Real-world data of long-term outcome of intensive treatment of adult acute myeloid leukaemia in Sri Lanka. *EJHaem*, 2(3), 555-561.
- Jayasinghe, D. Y., Dias, P., & **Jayasinghe, C. L.** (2020). A Review on Misleading COVID-19 Statistics. *Sri Lankan Journal of Applied Statistics*, 21(3).

- Nagaraju, V., **Jayasinghe, C.**, & Fiondella, L. (2020). Optimal test activity allocation for covariate software reliability and security models. *Journal of Systems and Software*, 168, 110643.
- De Alwis, S. M. D. N. M., Withange, N., & **Jayasinghe, C. L.** (2020). Factors associated with possessing the knowledge of HIV/AIDS-A case study based on ever married women in the reproductive age in Sri Lanka.
- Amithani, R.P.G. , Rodrigo, D.S., **Jayasinghe, C.L.** 2021, Local Factors Affecting Fertility of Women in Sri Lanka, *International Journal of Research and Innovation in Social Science (IJRISS)*, Volume V, Issue VI.
- **Jayasinghe, C.L.**, Zeephongsekul, P. 2020, Mortality modelling at advanced ages using a nonparametric approach, *International Journal of Mathematics & Statistics*, 21(1), pp. 38-57.
- Jayaweera, N., Rodrigo, S., Nadaraja, J., Rajapaksha, U. and **Jayasinghe, C.L.**, 2018. Green space: A Luxury or a Necessity? Green Spaces in Condominium Sites in Sri Lanka. *Cities People Places: An International Journal on Urban Environments*, 3(1), pp.49–65.
- Jayaweera, N., **Jayasinghe, C.L.**, Weerasinghe, S.N. 2018, Local factors affecting the spatial diffusion of residential photovoltaic adoption in Sri Lanka, *Energy Policy*, Volume 119, 2018, Pages 59-67,
- Nagaraju, V., Fiondella, L., Zeephongsekul, P., **Jayasinghe, C.L.**, Wandji, T. 2017, Performance Optimized Expectation Conditional Maximization Algorithms for Nonhomogeneous Poisson Process Software Reliability Models, in *IEEE Transactions on Reliability*, vol. 66, no. 3, pp. 722-734.
- **Jayasinghe, C.L.**, Zeephongsekul, P., 2017. Nonparametric hypothesis tests for comparing reliability functions, *Communications in Statistics: Theory and Methods*, 46 (8), 3698-3717.
- Zeephongsekul, P., **Jayasinghe, C.L.**, Fiondella, L., Nagaraju, V. 2016, Maximum-Likelihood Estimation of Parameters of NHPP Software Reliability Models Using Expectation Conditional Maximization Algorithm, in *IEEE Transactions on Reliability*, vol. 65, no. 3, pp. 1571-1583.
- **Jayasinghe, C.L.**, Zeephongsekul, P., 2013. Local polynomial fitting of the mean residual life function, *IEEE Transactions on Reliability*, volume 62, issue 2, pp. 317-328.
- **Jayasinghe, C.L.**, Zeephongsekul, P., 2013. Nonparametric smooth estimation of expected inactivity time function, *Journal of Statistical Planning and Inference*, volume 143, issue 5, pp. 911–928.
- **Jayasinghe, C.L.**, Zeephongsekul, P., 2012. On nonparametric smooth estimation of reversed hazard rate function, *Statistical Methodology*, volume 9, issue 3, pp. 364–380.
- **Jayasinghe, C.L.**, Zeephongsekul, P., 2011 Nonparametric Estimation of the Reversed Hazard Rate Function for Uncensored and Censored Data, *International Journal of Reliability, Quality and Safety Engineering*, volume 18, issue 5, pp. 417–429.

## Peer Reviewed Conference Publications

- Jayasinghe DY, Silva RM, **Jayasinghe CL**, Classification of batters format-wise based on ball-wise striking performance, In the proceedings of ICARC International Conference on Advanced Research in Computing 2023; (IEEE Xplore).
- Silva RM, **Jayasinghe CL**, Jayasinghe DY, De Silva, LHKP, On Ballwise Survival of a Modern Test Batter, In the proceedings of ISSAT International Conference on Data Science in Business, Finance and Industry 2023, Da Nang, Vietnam, pp. 123-130.
- S Hewamana, **C Jayasinghe**, P Gunasena... (2022) Feasibility of transplantation for myeloma in resource constrained setting: Real-world data on survival and cost of treatment from the first haemato-oncology centre in Sri Lanka - Conference on BONE MARROW TRANSPLANTATION, Volume 57, Issue SUPPL 1, Pages 241-242, SPRINGER NATURE.
- **Jayasinghe, C.L.**, Zeephongsekul, P., 2012. Distribution-free estimation of reliability functions, in: *Proceedings of the 18th ISSAT International Conference on Reliability and Quality in Design, International Society of Science and Applied Technologies*, Boston, U.S.A, pp. 263–267.
- **Jayasinghe, C.L.**, Zeephongsekul, P., 2011. An empirical estimator for reversed hazard rate function, in: *Proceedings of the 17th ISSAT International Conference on Reliability and Quality in Design, International Society of Science and Applied Technologies*, Vancouver, Canada, pp. 349–353.
- Dharmasena, S.L., Zeephongsekul, P., **Jayasinghe, C.L.**, 2011. Software reliability growth models based on local polynomial modeling with kernel smoothing, in: *Proceedings of the 22nd IEEE International Symposium on Software Reliability Engineering*, Kyoto, Japan, pp. 220–229.

- **Jayasinghe, C.L.**, Zeephongsekul, P., 2010. Bandwidth selection for estimating the mean residual life function, in: *Proceedings of the 16th ISSAT International Conference on Reliability and Quality in Design, International Society of Science and Applied Technologies*, Washington D.C., U.S.A.. pp. 338–342.

## Referees

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