Department of Statistics & Computer Science
Faculty of Science / University of Peradeniya



Dr. Hemalika T.K. Abeysundara

B.Sc. (Perad.), M.Sc., Ph.D. (Texas Tech, USA)

Senior Lecturer

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About Me

I am a statistician with a background of computer science and am highly passionate about distributing knowledge. Teaching and research are the main interests in my life where I get the chance to connect with others while sharing my knowledge. I love to analyze data as it gives me the opportunity to apply the statistical theories I have learned. It is a great pleasure to help other researchers with their data to develop meaningful outcomes meanwhile improving my knowledge in different subject areas. I am open to learn more and ready to take challenges in trying new approaches.

Higher Education Qualifications

PhD	MSc	BSc
Texas Tech University USA (2014)	Texas Tech University USA (2010)	University of Peradeniya Sri Lanka (2005)

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Awards, Scholarships, Memberships & Fellowships

- 1st Place - 9th Graduate Student Research Poster Competition, Texas Tech University, March 2010
- SIAM Academic Scholar Award - Awarded by the Society of Industrial and Applied Mathematics (SIAM), Texas Tech University, 2012

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Positions Held

- Secretary, Internal Quality Assurance Cell, Faculty of Science- (2021-)
- Co-Coordinator, M.Sc. in Data Science & AI- (2019-)
- Hon. Secretary, University of Peradeniya Science Alumni Association (UPSAA)- (2015-2017)
- Committee member of the Curriculum Development Board, Faculty of Science- (2015/16)
- Senior Lecturer, Department of Statistics and Computer Science, University of Peradeniya- (2015- up to date)
- Lecturer, Department of Mathematics and Statistics, Texas Tech University, Texas, USA- (2014-2015)
- Graduate Teaching Assistant, Department of Mathematics and Statistics, Texas Tech University, Texas, USA- (2008-2014)
- Temporary Lecturer, Department of Statistics and Computer Science, University of Peradeniya- (2005-2007)

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My Teachings

- RA2101: Programming Techniques (Dept of Radiography/Radiotherapy, AHS)
- RA3201: Statistics (Dept of Radiography/Radiotherapy, AHS)
- ST408: Reliability Theory and Survival Analysis
- STA1013: Introduction to Statistics
- STA1023: Introduction to Probability Theory
- STA2013: Probability Theory

Research Interests (Research Fields/ Projects)

Asymptotic Theory, Survival Analysis, Actuarial Statistics, Clinical data analysis, Statistical Computation

Ongoing Research and Projects

Developing a prediction model for Malaria Abundance

In collaboration with Department of Zoology, University of Peradeniya and National Malaria Project.

Developing new biomarkers for CKDu

Collaborated with Faculty of Medicine, University of Peradeniya and CERTKid

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Key Publications

SpringerPlus - (2016)

Trace elements in native and improved paddy rice from different climatic regions of Sri Lanka: implications for public health,

AMS sectional meeting - (2014)

Minimum Hellinger Distance Estimation of A Regression Function in A Parametric Family with A Random Design Model,

Conferences

Nothing to show under this subheading !!!

My Publications

Please goto the website.

https://sci.pdn.ac.lk/scs/staff/Hemalika-Abeysundara

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