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



Dr. B. R. Pavithra M. Basnayake

BSc (KLN); PhD (KLN)

Lecturer

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About Me

I am a dedicated lecturer, passionate about sharing knowledge and fostering a positive learning environment for my students. I believe in creating a space that encourages critical thinking and personal growth. Through effective communication and engaging teaching methods, I want to inspire my students to reach their full potential and develop an interest in lifelong learning. As a researcher, I am driven by a deep curiosity to explore knowledge and contribute to the advancement of my field. My research interests mainly lie in statistical modeling, time series analysis, machine learning and Bayesian analysis. My work also focuses on integrating modern machine learning techniques with statistical approaches to improve predictive performance and model flexibility. You can find my research contributions through ResearchGate and Google Scholar. I welcome research collaborations; if you are interested, please feel free to contact me via email.

Higher Education Qualifications

PhD

University of Kelaniya
Sri Lanka
(2025)

BSc

University of Kelaniya
Sri Lanka
(2019)

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Awards, Scholarships, Memberships & Fellowships

- Gold Medalist in Statistics for the academic performance in the Faculty of Science, University of Kelaniya awarded by the Alumni Association of the Faculty of Science, University of Kelaniya
- Lifetime member of the Institute of Applied Statistics (IASSL), Sri Lanka
- Member of the Young Scientists Forum (YSF)
- Senate Honours for conducting high quality research and publishing in indexed journals in the years of 2022, 2024, 2025 - University of Kelaniya
- 2nd Runner-up - Best Research Awards 2022 (Open Category) - IASSL
- Research excellence award - Faculty of Science, University of Peradeniya - 2024
- Winner of Best Research Award 2025 (Postgraduate Category) - IASSL
- Senate Honours for conducting high quality research and publishing in Scopus indexed conferences in the years of 2024, 2025 - University of Kelaniya
- Dean’s List of the Faculty of Science, University of Kelaniya - On outstanding academic performance - Academic years 2014/2015, 2015/2016, 2016/2017 and 2017/2018
- Newly Recruited Probationary Lecturers (NRPL) Grant - University of Peradeniya (NRPL/2023/03/S)
- University Research Grant (URG) - University of Peradeniya (URG/2024/49/S)

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Positions Held

- Temporary Demonstrator, Department of Statistics & Computer Science, University of Kelaniya- (2020-2021)
- Temporary Lecturer, Department of Statistics & Computer Science, University of Kelaniya- (2021-2022)
- Member of the Organizing committee of Industry day 2022- (June 2022 - July 2022)
- Secretary - Science Undergraduate Research Symposium (SURS)- (2022)
- Editorial Assistant of the Editorial Committee & Member of Research Highlight Committee - PGIS Research Congress (RESCON)- (2023, 2024)
- Editorial Assistant – Peradeniya University International Research Sessions (iPURSE)- (2023)
- Committee member of Student Academic Advisory Committee (SAAC)- (2026)
- Executive Council Member & Member of Academic Training Committee - Institute of Applied Statistics (IASSL)- (2026)
- Member of the Ceremonial Sub-Committee - 3rd International Conference on Data Science & Artificial Intelligence (DS&AI 2025)- (2025)
- Editorial Assistant of the Editorial Committee & Member of CMT Management Committee - ISC 2024- (2024)

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My Teachings

- APS4042: Data Integrity Management and Data Analysis
- DSC3052: Data Visualization
- DSC3163: Advanced Database Management Systems
- DSC3263: Independent study in Data science
- DSC4996: Project in Data Science
- STA1031: Statistics Applications I
- STA1041: Statistics Applications II
- STA2042: Sampling techniques

Research Interests (Research Fields/ Projects)

Time Series Analysis
Statistical Modelling
Econometrics
Machine Learning
Bayesian Analysis

Ongoing Research and Projects

- **A Novel Statistical Framework for Evaluating Competing Forecasting Models**
- **A Dynamic Programming Approach for Optimal Batting Order Selection in T20 Cricket**
- **An Investigation of Demographic, Clinical and Behavioral Factors Affecting Canine Health and Veterinary Service Utilization**

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Key Publications

Nothing to show under this subheading !!!

Conferences

Nothing to show under this subheading !!!

My Publications

Please goto the website.

https://sci.pdn.ac.lk/scs/staff/Pavithra-Basnayake

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