Curriculum Vitae

Piyadi Gamage Jayani Lakshika

Department of Econometrics and Business Statistics Monash University, Australia	
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≥ Education	
PhD candidate - Statistics Faculty of Business & Economics, Monash University, Australia Thesis title: Interactive and Dynamic Graphics for Studying Non-linear Dimension Reduction Models of High-dimensional Data	July 2022 —
B.Sc. (Honours) in Statistics University of Sri Jayewardenepura (USJ), Sri Lanka Thesis title: Computer Vision System For Automated Medicinal Plant Identification	January 2017 — December 2020
Diploma in Computer System Design (DCSD) National Institute of Business Management (NIBM), Sri Lanka	March 2016 — March 2017
Certificate in Business Accounting Chartered Institute of Management Accountants (CIMA), Sri Lanka	December 2015 — September 2016
♣ Appointments Held	
Teaching Associate Department of Econometrics and Business Statistics, Monash University, Australia	January 2023
Teaching Assistant (Temporary Instructor) University of Sri Jayewardenepura (USJ), Sri Lanka	July 2021 — July 2022
Associate Data Analyst Vizuamatix (Pvt) Ltd, Sri Lanka	January — November 2021
Trainee Data Analyst Vizuamatix (Pvt) Ltd, Sri Lanka	July— December 2020
Research Internship Vizuamatix (Pvt) Ltd, Sri Lanka Industrial training as a fulfillment of the degree B.Sc. (Honours) in Statistics	January — June 2020

Publications

Papers

Lakshika, J. P., & Talagala, T. S. (2021). Computer-aided Interpretable Features for Leaf Image Classification. arXiv preprint arXiv:2106.08077

Conference proceedings

Young Scientists' Conference on Multidisciplinary Research (YCMR) abstract publication (ISSN $2815-0260$)	October 2021
17^{th} applied science research poster and abstract publication (Page 74)	September 2021
Conference presentations and contributed talks	
Visualise your fitted non-linear reduction model in high-dimensional space 2025 Joint Statistical Meetings, Nashville, Tennessee, USA	2025
Generating interesting high-dimensional data structures UseR! 2025, Penn Pavilion, Duke University, Durham, North Carolina, USA	2025
Visualise your fitted non-linear reduction model in high-dimensional space Data Science Club, University of Nebraska, Omaha (UNO), USA	2024
Visualise your fitted non-linear reduction model in high-dimensional space Graphics Group, University of Nebraska, Licoln (UNL), USA	2024
Visualise your fitted non-linear reduction model in high-dimensional space UseR! 2024, Salzburg, Austria	2024
Visualising how non-linear dimension reduction warps your data Faculty of BusEco Three Minute Thesis (3MT) competition, Monash University, Australia	a 2024
Visualise your fitted non-linear dimension reduction model in the high-dimensional data space Victorian branch of the Australian and New Zealand Industrial and Applied Mathematics Society (VicANZIAM) 2024 (RMIT university, Melbourne, Australia)	2024
Visualize your fitted non-linear dimension reduction model in the high-dimensional data space — Invited speaker Bioinformatics Seminar, Monash University, Australia	2024
With non-linear dimension reduction, when can you believe what you see? Australian Statistical Conference (ASC 2023) (Wollongon, Australia)	2023
Viewing the model from a non-linear dimension reduction in the high-dimensional data space — Invited speaker 12th-Conference of the Asian Regional Section of the International Association for Statistical Computing (IASC-ARS 2023) (Wollongon, Australia)	9099
Higher studies webinar — Invited speaker University of Sri Jayewardenepura (USJ), Sri Lanka	2023
Computer Vision System for Automated Medicinal Plant Identification — In vited speaker NUMBATs meeting, Monash University, Australia	2022

Computer Vision System for Automated Medicinal Plant Identification — Invited speaker Estadistica 2021, the Annual Statistics Day organized by the Statistics Society of University of Sri Jayewardenepura, Sri Lanka	2021
Computer Vision System for Automated Medicinal Plant Identification — Invited speaker Vx Tech Talk 2021, Vizuamatix Pvt. Ltd, Sri lanka	2021
Statistical machine learning for medicinal plant leaves classification — Presentation 17th Applied Statistics Conference, Solvenia	2021
Statistical machine learning for medicinal plant leaves classification — Speedtalk Young Scientists' Conference on Multidisciplinary Research (YSCMR 2021) which is organised by the Young Scientists' Association of the National Institute of Fundamental Studies, Sri Lanka (NIFS-YSA)	2021

Wisiting

Prof. Heike Hofmann, A/Prof. Susan Vanderplas, and Dr. Michelle Graham

At the University of Nebraska, Lincoln, USA (six weeks)

December 2024

A/Prof. Ursula Laa

At the University of Natural Resources and Life Sciences, Vienna (BOKU University), accompanied by Prof. Di Cook, Prof. Eun-Kyung Lee, and A/Prof. Natalia da Silva (one week)

R packages

airpurifyr: Provide an interface to scrape air quality data from https://openaq.org/

cardinalR: Collection of data structures.

quollr: Tool to visualise how non-linear dimension reduction warps your data

olympics: Provide an interface to scrape Olympic data from https://olympics.com/

MedLEA: Software which contains information about medicinal plants in Sri Lanka

DSjobtracker: Software which contains what skills and qualifications are required for data science related jobs

A Teaching

Tutor

[ETC5510] Introduction to data analysis	2024	
[ETC1010] Introduction to data analysis	2024	
[ETC3250] Introduction to machine learning	2023 - 2024	
[ETC5250] Introduction to machine learning	2023 - 2025	

[ETC5521] Exploratory data analysis	2023
[STA 326 2.0] R Programming	2022
[STA 213 2.0] Inferential Statistics	2022
[STA 214 1.0] Nonparametric Statistics	2022
[STA 215 2.0] Sampling techniques	2022
[STA 115 1.0] Elements of Sampling	2022
[STA 113 2.0] Descriptive Statistics	2022
[STA 114 2.0] Probability and Distribution Theory I	2022
[STA 224 2.0] Regression Analysis	2021
[STA 225 2.0] Design of Experiments	2021
[STA 226 1.0] Data Analysis II	2021
[STA 123 2.0] Probability and Distribution Theory II	2021
[STA 124 2.0] Data Analysis I	2021
[STA 125 1.0] Statistical Communication	2021
Q Awards	
PhD external experience fund Monash University, Australia	2024
Monash Business School Prestigious International Conference Award Monash University, Australia	2024
Co-Funded Graduate Research Scholarship, Monash Business School Monash University, Australia	2022 — 2026
Diploma in Computer System Design (DCSD) — Gold medalist National Institute of Business Management (NIBM), Sri Lanka	2017
OCTAVE competition — Finalists Research abstract competition organized by OCTAVE company, Sri Lanka	2021
Stat Circle quiz competition — Winners Team member of the winners at inter university quiz competition organized by the Stat Circle Faculty of Science, University of Colombo, Sri Lanka	2018

♣ Academic Service & Community Engagment

NUMBATs seminar organizer	Semester 1,
Monash University, Austria	2025
UseR! 2024 Session Chair Conference in Salzburg, Austria	2024
ASC Session Chair Australian Statistical Conference in Wollongong, Australia	2023
WOMBAT tutorials — Helper Monash University, Australia	2022
Statistical Consultancy Service — Department representative University of Sri Jayewardenepura (USJ), Sri Lanka	2020
Professional Memberships	
Statistical Society of Australias (SSA)	2022-
R-Ladies Melbourne	2022-
Statistics society University of Sri Jayewardenepura (USJ) Sri Lanka	2017-2022

References

Prof. Dianne Cook

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Professor

Department of Econometrics and Business Statistics

Faculty of Business and Economics

Monash University, Australia

Dr. Thiyanga S. Talagala

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https://thiyanga.netlify.com

Senior Lecturer

Department of Statistics

Faculty of Applied Sciences

University of Sri Jayewardenepura, Sri Lanka