

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](https://arxiv.org/abs/2106.08077)

Conference proceedings

Young Scientists' Conference on Multidisciplinary Research (YCMR) abstract publication (ISSN 2815-0260)

17th applied science abstract publication (Page 74)

Conference presentations and contributed talks

Visualise your fitted non-linear reduction model in high-dimensional space 2024
UseR! 2024, Salzburg, Austria

Visualising how non-linear dimension reduction warps your data 2024
Faculty of BusEco Three Minute Thesis (3MT) competition, Monash University, Australia

Visualise your fitted non-linear dimension reduction model in the high-dimensional data space 2024
Victorian branch of the Australian and New Zealand Industrial and Applied Mathematics Society (VicANZIAM) 2024 (RMIT university, Melbourne, Australia)

Visualize your fitted non-linear dimension reduction model in the high-dimensional data space — Invited speaker 2024
Bioinformatics Seminar, Monash University, Australia

With non-linear dimension reduction, when can you believe what you see? 2023
Australian Statistical Conference (ASC 2023) (Wollongon, Australia)

Viewing the model from a non-linear dimension reduction in the high-dimensional data space — Invited speaker 2023
12th-Conference of the Asian Regional Section of the International Association for Statistical Computing (IASC-ARS 2023) (Wollongon, Australia)

Higher studies webinar — Invited speaker 2023
University of Sri Jayewardenepura (USJ), Sri Lanka

Computer Vision System for Automated Medicinal Plant Identification — Invited speaker 2022
NUMBATs meeting, Monash University, Australia

Computer Vision System for Automated Medicinal Plant Identification — Invited speaker 2021
Estadística 2021, the Annual Statistics Day organized by the Statistics Society of University of Sri Jayewardenepura, Sri Lanka

Computer Vision System for Automated Medicinal Plant Identification — Invited speaker 2021
Vx Tech Talk 2021, Vizumatix Pvt. Ltd, Sri Lanka

Statistical machine learning for medicinal plant leaves classification 17th Applied Statistics Conference, Solvenia	2021
Statistical machine learning for medicinal plant leaves classification — Speed-talk 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

Visiting

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) July 2024

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

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 — 2024
[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

Awards

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

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