Curriculum Vitae

Piyadi Gamage Jayani Lakshika
Department of Econometrics and Business Statistics
Monash University, Australia

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Website: https://jayanilakshika.netlify.app/
GitHub: https://github.com/JayaniLakshika
LinkedIn: https://www.linkedin.com/in/jayani-lakshika-9a0297162

🎓 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
17th applied science research poster and abstract publication (Page 74)	September 2021

Conference presentations and contributed talks

Generating interesting high-dimensional data structures UseR! 2025, Penn Pavilion, Duke University, Durham, North Carolina	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	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)	2023
Higher studies webinar — Invited speaker University of Sri Jayewardenepura (USJ), Sri Lanka	2023
Computer Vision System for Automated Medicinal Plant Identification — Invited 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

👁 Visiting

Prof. Heike Hofmann, A/Prof. Susan Vanderplas, and Dr. Michelle Graham
At the University of Nebraska, Lincoln, USA (six weeks)
October-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)
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 — 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

🏅 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
Monash University, Austria
<div align="right">Semester 1, 2025</div>

UseR! 2024 Session Chair
Conference in Salzburg, Austria
<div align="right">2024</div>

ASC Session Chair
Australian Statistical Conference in Wollongong, Australia
<div align="right">2023</div>

WOMBAT tutorials — Helper
Monash University, Australia
<div align="right">2022</div>

Statistical Consultancy Service — Department representative
University of Sri Jayewardenepura (USJ), Sri Lanka
<div align="right">2020</div>

👥 Professional Memberships

Statistical Society of Australias (SSA)
<div align="right">2022–</div>

R-Ladies Melbourne
<div align="right">2022–</div>

Statistics society
University of Sri Jayewardenepura (USJ), Sri Lanka
<div align="right">2017–2022</div>