Hewawasm Puwakpitiyage Pasindu Madhuranga Hewawasam

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Colombo, Sri Lanka

Education

- **B.Sc. (Honours) in Mathematics, University of Sri Jayewardenepura, Sri Lanka (2019- 2023).**

Mathematics GPA	3.46 out of 4.00
Overall GPA	3.31 out of 4.00 (Second Class Upper Division)

  Computer Science and Statistics were studied in the first two years, in addition to Mathematics.

- **D.S. Senanayake College, Colombo 07, Sri Lanka (2011-2017).**
  G.C.E. Advanced Level examination- 2017 (Mathematics, Physics, Chemistry and English)
  G.C.E. Ordinary Level examination- 2014 (Including Mathematics, English)

Final Year Research Project

- **Title of Research Project:** "Analysis of Tournaments Scheduling and Implementation of DLS Method"

- **Description:** Conducted a comprehensive analysis of tournament scheduling and implemented a system for Duckworth-Lewis mechanism in MATLAB as the second part of the project.

Employment

- **Lecturer and Level Coordinator for part time year 3 and year 4 (UoW) students**, Faculty of Computer Science, Informatics Institute of Technology, Sri Lanka: **(September 2025–Present)**.

- **Assistant Lecturer and Level Coordinator for second year (UoW) students**, Faculty of Computer Science, Informatics Institute of Technology, Sri Lanka: **(September 2023–August 2025)**.

  - Conducting lectures and tutorials on Operational Research and Optimization, Formal Methods, Mathematics for Computing, Object-Oriented Programming, Computer Systems Fundamentals, Algorithms, and Trends in Computing for undergraduate students pursuing a BSc in Computer Science and a BEng in Software Engineering (affiliated with the University of Westminster, UK).
  - Delivering lectures and tutorials on Computational Mathematics, Advanced Mathematics, Simulation and Modelling Techniques for undergraduate students pursuing a BSc in AI and Data Science (affiliated with Robert Gordon University, Scotland).
  - Marking examinations and evaluating vivas.
  - Supervising final-year and second-year group projects:
    * Novel Unsupervised Learning of Rare Cells In scRNAseq Data Through Clustering and Comparative Analysis of Graphs Structures(2025).
    * CareConnect – Doctor Patient Consulting Application (2024).

* FashionFlow – An automated image-based recommendation system (2024).
  – As a second year SE level coordinator,
    * Solve conflicts and concerns of second-year students and lecturer panel.
    * Manage and coordinate the timetables of second-year software engineering modules.

- **Temporary Demonstrator** (Equivalent to Teaching Assistant), Dept. of Mathematics, University of Sri Jayewardenepura: **(July 2023–August 2023)**.

  – Teaching (MAT 129 0.0- Mathematical Software I (Maple), MAT 129 0.0- Mathematical Software II (Maple)).
  – Conducting tutorials (MAT 111 2.0 Fundamentals of Logic and Set Theory, MAT 121 2.0 Linear Algebra I, MAT 122 2.0 Calculus, MAT 212 2.0 Real Analysis I).
  – Grading assignments and mid-semester examinations (MAT 212 2.0 Real Analysis I, MAT 321 2.0 Abstract Algebra).
  – Invigilating examinations.

- **Tutor in Mathematics (2018–Present)**.

  – I started teaching mathematics to local ordinary level and advanced level student after the completion of my advanced level examination and currently I'm teaching to not only local students but also international students to preparing them to their certain kinds of examinations.

Academic Projects

- **A Novel Method to Tournament Scheduling** (2024)
  Published in IJSRP. Link to paper

- **Analysis of Tournament Scheduling and Implementation of the DLS Method** (2023)
  Final-year research project involving mathematical modeling and MATLAB implementation.

- **Classical Planning in Prolog** (2023)
  Designed and implemented a planning system using Prolog logic programming constructs.

- **Satisfaction of Sanitary Facilities — Statistical Study** (2019)
  University-level statistical analysis project using survey-based data.

- **Banking System Implementation in C** (2019)
  Developed a console-based banking management system using C.

Other Projects

- **Interactive Linear Regression App** (2025)
  Web-based regression visualization tool built with Streamlit. View Project

- **Bridge Optimization Simulator** (2025)
  Interactive optimization demo applying OR techniques to routing/bridging problems. View Project

Research Interests

- Optimization

- Computational Mathematics

- Graph Theory

- Number Theory

- Cryptography

- Data Science and AI

Additional Skills

- Mathematical software: Maple, MATLAB

- Programming languages: Python, JAVA, C, C++, Prolog, B

- Statistical software: Minitab, SPSS, R

- Other tools: LaTeX, MS Office

Academic Achievements

- Offered to specialize in Mathematics and Computer Science at the end of the second academic year (May 2021).

Professional and Other Qualifications

- Member of IEEE Computer Society

- Completed Make Teaching Effective course conducted by Prof. Suki Ekaratne (2023).

- Completed certificate course in Python for Beginners (Online) UoM, Sri Lanka (2023).

- Completed Machine Learning Foundations: Linear Algebra course on LinkedIn Learning (2025).

- Completed Machine Learning Foundations: Calculus course on LinkedIn Learning (2025).

- Batch first in certificate course in Computer Science NIBM, Colombo, Sri Lanka (2017).

References

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