Lasitha Gunasekara

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Education

Florida State University, PhD Candidate in Computational Science, Fall 2023 – Present
- GPA: 3.9/4.0
- **Coursework:** Applied Computational Science I & II, Scientific Programming, Markov Chain Monte Carlo, Integral Equation Methods, High Performance Computing, Advanced Transport Phenomena, Advanced Research Topics Seminar

Florida State University, MSc in Pure Mathematics, Fall 2021 – Spring 2023
- GPA: 3.3/4.0
- **Coursework:** Algebra, Analysis, Topology

University of Peradeniya, BSc in Mathematics, Jan 2015 – Dec 2018
- GPA: 3.9/4.0
- **Coursework:** Algebra, Analysis, Topology, Number Theory, Numerical Analysis, ODEs, PDEs, Statistics, Probability

Experience

Graduate Teaching Assistant, Dept. of Scientific Computing – FSU, Fall 2023 – Present
- Instructor for Computational Thinking
- Teaching Assistant for Symbolic and Numerical Computations, Computational Thinking, and Introduction to Scientific Programming

Teaching Assistant, Dept. of Mathematics – FSU, Fall 2021 – Spring 2023
- Led labs and lectures for College Algebra, Pre-Calculus, Trigonometry, and Discrete Math
- Responsible for grading and makeup sessions

Instructor, Dept. of Engineering Mathematics – University of Peradeniya, Jan 2020 – Jun 2021
- Conducted recitation classes in Calculus, Linear Algebra, Operations Research, and Numerical Analysis

Demonstrator, Dept. of Mathematics – University of Peradeniya, Jan 2019 – Dec 2019
- Conducted tutorial sessions in Complex Analysis and Calculus I–III

Leadership & Service

Secretary, Sri Lankan Student Association – FSU, Fall 2024 – Present
- Coordinated events and managed communication

Treasurer, Mathematical Society – University of Peradeniya, Jan 2017 – Dec 2018
- Managed society funds, prepared annual budget, and organized academic outreach events

Projects

Poster Presentation: FACM 2025, Summer 2025
- Title: The role of shear on an active nematic viscous drop

Poster Presentation: Computational Exposition, Spring 2025
- Title: Survey on Suspension of Particles in Viscous (Stokesian) Fluids
- Achievement: Winner of the competition

Class Project: Near Singular Integration, Spring 2025
- Explored methods to improve numerical quadrature accuracy in nearly singular regions

Class Project: Spin Coating, Fall 2024
- Modeled dry film thickness in spin coating processes

Technologies

- **Programming Languages:** Python, C++
- **Visualization & Rendering:** ParaView, Blender
- **Version Control & Documentation:** Git, LaTeX