

Shashini Marasinghe Mudiyanselage

CONTACT INFORMATION	Michigan State University Department of Mathematics	(517) 944-9327 marasin1@msu.edu
RESEARCH INTERESTS	Quantum and low-dimensional topology, Knot theory, Quantum computing, Mathematics education.	
EDUCATION	Michigan State University, East Lansing MI Ph.D. Candidate, Mathematics (expected December 2026) <ul style="list-style-type: none">• Thesis topic: Seifert fibered 3-manifolds and Turaev-Viro invariants volume conjecture.• Advisor: Professor Efstratia Kalfagianni.	
	University of Peradeniya, Sri Lanka B.Sc. Honours degree program in Mathematics, First-class Honours, 2021.	
TEACHING EXPERIENCE	Michigan State University <i>Instructor of Record</i> MTH 234 Multivariable Calculus 3 Fall 2023, Spring 2024 MTH 124 Survey of Calculus 1 Summer 2022 MTH 101 Quantitative Literacy 1 Summer 2023 MTH 299 Introduction to Proofs Summer 2025	
	<i>Teaching Team</i> MTH 133 Calculus 2 Fall 2021 MTH 124 Survey of Calculus 1 Spring 2022 MTH 101 Quantitative Literacy 1 Fall 2022	
	<i>Curriculum Development</i> MTH 101 Quantitative Literacy 1 Spring 2023, Spring 2025 MTH 234 Multivariable Calculus 3 Fall 2023, Spring 2024 MTH 124 Survey of Calculus 1 Summer 2022 MTH 101 Quantitative Literacy 1 Summer 2023 MTH 299 Introduction to Proofs Summer 2025	
	<i>Teaching Mentoring</i> <ul style="list-style-type: none">• Instructional Mentoring Lead TA for undergraduate learning assistants: Observed and provided feedback as a long-form.• Instructional Mentoring Lead TA for graduate second-year teaching assistants: Observed and provided one-on-one mentoring and feedback.• Resource person for discussion-based instructions for undergraduate learning assistants and first-year teaching assistants.	

Professional Development

- CITRL MOOC: An Introduction to Evidence-Based STEM Undergraduate Teaching (Spring 2025).

Research Mentoring

- RTG MSU Summer Topology Program Summer 2023:
Mentoring two students one-on-one on advanced low-dimensional topics for half of the summer on how to prepare chalk and slide talks and write a mathematics paper.
- Resource person for L^AT_EX-workshop in Sri Lanka 2024.

PUBLICATIONS

- Marasinghe. S, *Seifert fibered 3-manifolds and Turaev-Viro invariants volume conjecture (awaiting arXive submission)*.
Detcherry. R, Kalfagianni. E, Marasinghe. S, *Gromov norm and Turaev-Viro invariants of 3-manifolds II: A Gluing theorem (in preparation)*

CONFERENCES &
SEMINAR TALKS

- 6-j symbols, MSU Graduate Geometry and Topology Seminar (2024).
Introduction to the Volume Conjecture, MSU Graduate Geometry and Topology Seminar (2025).

HONORS &
AWARDS

- | | |
|--|-----------------------|
| TA Award for Excellence in Teaching,
Michigan State University | 2023-2024 |
| Best Poster Presentation Award, ICCME | 2021 |
| Award for Academic Excellence,
University of Peradeniya | 2021 |
| Dean's list, University of Peradeniya | 2018-1019, semester 1 |
| Dean's list, University of Peradeniya | 2018-1019, semester 2 |
| Runner-up in EUDOXUS Quiz Competition
Mathematical Society, University of Peradeniya. | 2018 |

SERVICES &
LEADERSHIPS

- | | |
|---|-----------|
| Organizer, MSU Graduate Geometry and Topology Seminar | 2024-2025 |
| Treasurer, American Mathematical Society,
Graduate Student Chapter, MSU. | 2022-2023 |
| Secretary, Association for Women in Mathematics,
MSU Chapter | 2021-2022 |
| Lead TA, MSU | 2022-2024 |
| Editor, magazine "Mathéma" University of Peradeniya | 2019-2020 |
| Editor, University of Peradeniya | 2018-2020 |
| Tutor, Mathematical Bootcamp
University of Peradeniya | 2018 |
| Vice president, SIAM Student Chapter
University of Peradeniya | 2020-2021 |

SKILLS L^AT_EX, Python, LEAN, Adobe Illustrator, LINGO.