

BHARATHA MADUSANKA RANKOTHGE

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EDUCATION

University of California San Diego

Ph.D. in Mathematics

La Jolla, CA

2019-Now

Advisor: Prof. Claus Sorensen

Research: Stratifying the derived category of mod- p representations of a p -adic lie group

M.A. in Pure Mathematics

2022

Columbia University

B.A. in Mathematics (with Departmental Honors)

New York, NY

2015-2019

AWARDS AND HONORS

James B. Ax Graduate Fellowship, University of California San Diego

2019

(Awarded by the UCSD Department of Mathematics to incoming Ph.D. students)

Columbia Undergraduate Summer Enhancement Fellowship (Creative Project)

Summer 2016, Summer 2018

Studied the socio-cultural impact of mythology and folklore in Sri Lanka

John Jay Scholar

2015-2019

(Awarded by the Columbia Undergraduate Scholars Program in recognition of academic excellence, extracurricular achievements, and promise for future growth)

EducationUSA Opportunity Fund Grant

2014

(Scholarship awarded by US-Sri Lanka Fulbright Commission and US Department of State to facilitate college applications)

Member of the Sri Lankan team for the 2012 International Mathematics Olympiad (IMO)

2012

(Could not attend)

EXPERIENCE

Instructor of Record, Department of Mathematics, UCSD

Summer 2023

- Designed the course materials (syllabus, lecture notes, exams etc.) for an accelerated pre-calculus course.
- Taught a class of 35 students over 5 weeks using those material.
- Saw good performance from the students and received excellent teaching reviews.

Lead Teaching Assistant, Department of Mathematics, UCSD

Fall 2022, Spring 2023

- Coordinated with the lead instructor and managed 7 TAs for a Multivariable Calculus course with 600+ students.
- Oversaw the implementation of a new education model for the course.
- Designed the weekly problem sets and other activities for the discussion sections to facilitate active learning.

Graduate Teaching Assistant, Department of Mathematics, UCSD

Fall 2019-Now

- Led weekly discussion sections and held weekly office hours; Graded the midterms and the finals.
- Courses: Mathematical Reasoning, Calculus, Linear Algebra, Probability, Abstract Algebra, and Cryptography

Undergraduate Teaching Assistant, Department of Mathematics, Columbia University

Fall 2017-Spring 2019

- Held weekly office hours and graded the homework assignments.

OUTREACH AND OTHER ACTIVITIES

Graduate Mentor, UCSD Math RTG Directed Reading Program for Undergraduates

Spring 2022, Spring 2023

- Co-led undergraduate reading groups in Elliptic Curves and Representation Theory.

Graduate Mentor, UCSD Summer Math Program for High School Students

Summer 2022, Summer 2023

- Designed and led reading courses in in Elementary and Algebraic Number Theory.

Geometry Tutor, Columbia Tutoring and Learning Center

Fall 2018-Spring 2019

- Provided geometry tutoring for the students in public high schools in the Harlem neighborhood in New York.

TECHNICAL SKILLS

Programming Python

Languages Sinhala (Native), English (Fluent)