**BHARATHA MADUSANKA RANKOTHGE**

La Jolla, CA • (646) 541 8554 • [brankoth@ucsd.edu](mailto:brankoth@ucsd.edu)

EDUCATION-------------------------------------------------------------------------------------------------------------------------------------------------------

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| **University of California San Diego** | | La Jolla, CA |
| *Ph.D. in Mathematics* |  | 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 |
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| **Columbia University** | | New York, NY |
| *B.A. in Mathematics (with Departmental Honors)* | | 2015-2019 |

AWARDS AND HONORS----------------------------------------------------------------------------------------------------------------------------------------

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| **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 -------------------------------------------------------------------------------------------------------------------------------------------------------

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| **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 ------------------------------------------------------------------------------------------------------------------------

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| **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------------------------------------------------------------------------------------------------------------------------------------------------

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| **Programming** | Python | **Languages** | Sinhala (Native), English (Fluent) |