AARATRICK BASU

CURRICULUM VITAE

Personal Data

Date of Birth 5th August, 2003

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EDUCATION

Degree	Fall 2024 — Present PhD in Mathematics University of Virginia	Charlottesville, VA, USA
	2021 — 2024 Bachelor of Mathematics (Honours) 92.63%	
	Indian Statistical Institute	Bangalore, India
Period Degree School	2018 — 2021 Secondary & Higher Secondary school Aditya Academy Secondary, Kadambagachi	West Bengal, India

Ркојестѕ

Organisers Program	January - April 2024 Prof. Charanya Ravi, Prof. Jishnu Biswas, Prof. Manisl Reading Seminar Intersection homology	Kumar ISI Bangalore
Period Guide Program Topic		IISc Bangalore
		IISc Bangalore
Period Guide	December 2022 Prof. Maneesh Thakur Geometric Algebra	ISI Bangalore

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¹Last updated: 11thJuly, 2024

SCHOLARSHIPS AND AWARDS

2022 Summer Research Fellowship (Indian Academy of Sciences)

2019 KVPY SA Fellow2019 JBNSTS Junior Scholar

SKILLS

LanguagesEnglish (near native), Hindi (fluent), Bengali (native)Programming LanguagesPython, LaTeX, R, Markdown, JavaScript, Bash

TALKS GIVEN

- A proof of the Dehn-Nielsen-Baer theorem using geometric group theory
 Presentation at end of project with Prof. Subhojoy Gupta, IISc Bangalore, July 2023
- Hyperbolic Geometry, Hyperbolic Surfaces and Fuchsian Groups Math Club student talk, ISI Bangalore, August 2023
- \bullet L^2- cohomology and intersection cohomology Intersection Homology reading seminar, ISI Bangalore, February 2024
- What is ?(x)?

 Math Club "What is ...?" seminar, ISI Bangalore, March 2024
- The Riemann-Hurwitz formula, orbifolds and Hurwitz's automorphism theorem Part of Complex Analysis course, ISI Bangalore, March 2024

VOLUNTEER WORK

- Involved in organising talks and maintaining the website of student run *Math Club* at ISI Bangalore.
- Contributed to the website of math contest *LIMIT* run by students of ISI Bangalore.
- LaTeXed notes of course on Real Analysis of Several Variables, available here.
- Planned and organised "What is ...?" seminar with other Math Club members at ISI Bangalore.