AARATRICK BASU

Resumé

Personal Data

Date of Birth 5th August, 2003

E-MAIL aaratrick.r2ab@gmail.com, ukg7ef@virginia.edu

EDUCATION

Degree	2021 — Present Bachelor of Mathematics (Honours) 2309/2500 (for first five semesters)	
	Indian Statistical Institute	Bangalore, India
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Period	2020 — 202I	
Degree	Class XII (Higher Secondary School)	
Score	578/600	
Percentage	96.3%	
School	Aditya Academy Secondary, Kadambagachi	West Bengal, India
Period	2018 — 2019	
Degree	Class X (Secondary School)	
Score	482/500	
Percentage	96.4%	
School	Aditya Academy Secondary, Kadambagachi	West Bengal, India

PROJECTS

Period Organisers Program Topic	8	nish Kumar ISI Bangalore
Period Guide Program Topic	May - July 2023 Prof. Subhojoy Gupta Summer Research Fellowship Program Geometry and Topology of Surfaces	IISc Bangalore
Organiser Program	June - July 2023 Prof. Apoorva Khare, Prof. R Venkatesh Advanced Instruction School Lie Groups and Lie Algebras	IISc Bangalore
Period Guide Topic	December 2022 Prof. Maneesh Thakur Geometric Algebra	ISI Bangalore

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.