

AARATRICK BASU

CURRICULUM VITAE¹

PERSONAL DATA

INSTITUTE University of Virginia, Charlottesville, USA
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EDUCATION

PERIOD	Fall 2024 — Present		
DEGREE	PhD in Mathematics		
UNIVERSITY	University of Virginia	Charlottesville, VA, USA	
ADVISOR	Prof. Thomas Koberda and Prof. Sara Maloni		

PERIOD	2021 — 2024		
DEGREE	Bachelor of Mathematics (Honours)		
UNIVERSITY	Indian Statistical Institute	Bangalore, India	
RESULT	First division with distinction		

SCHOLARSHIPS AND AWARDS

2022 Summer Research Fellowship (Indian Academy of Sciences)
2019 KVPY SA Fellow
2019 JBNSTS Junior Scholar

TEACHING

Fall 2025 Instructor of record for MATH 1310 Calculus I
Spring 2025 Teaching assistant for MATH 3250 Ordinary Differential Equations
Fall 2024 Teaching assistant for MATH 3310 Basic Real Analysis

SKILLS

Languages English (near native), Hindi (fluent), Bengali (native)
Programming Languages Python, LaTeX, R, Markdown, JavaScript, Bash

TALKS GIVEN

- Getting tangled up with braids and elliptic curves
Graduate Student Seminar, University of Virginia, February 2025
- What is $\pi(x)$?
Math Club “What is ...?” seminar, ISI Bangalore, March 2024

¹Updated on 10th August, 2025

- L^2 -cohomology and intersection cohomology
Intersection Homology reading seminar, ISI Bangalore, February 2024
- Hyperbolic Geometry, Hyperbolic Surfaces and Fuchsian Groups
Math Club student talk, ISI Bangalore, August 2023

CONFERENCES ATTENDED

- IHES Summer School on Discrete Subgroups of Lie Groups
Summer school at IHES, 7th – 18th July, 2025
- Midwest Summer School in Geometry, Topology and Dynamics
Summer school at UW-Madison, 2nd – 6th June, 2025
- Holomorphic and Topological Methods in Symplectic Geometry
Summer school at ISI Kolkata, 3rd – 8th June, 2024
- Advanced Instructional School on Lie Groups and Lie Algebras
Summer school at IISc Bangalore, June – July, 2023

VOLUNTEER WORK

- Contributed to the [website](#) of math contest *LIMIT* run by students of ISI Bangalore.
- Organised “What is ...?” [seminar](#) with other Math Club members at ISI Bangalore.