

# Curriculum Vitae

## Personal Information

Name	Sayantana Santra
Email	sayantan.santra689@gmail.com sayantan.santra@ou.edu
Address	Norman, Oklahoma, US, ZIP - 73071
Languages	Bangla (native), English (fluent), Hindi (fluent) and Sanskrit (intermediate)

## Research Interests

I'm interested in Algebraic and Analytic Number Theory, specifically L-functions of modular forms and elliptic curves.

## Work Experience

2021-(ongoing)	Graduate Teaching Assistant at The University of Oklahoma, Norman, OK, US
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## Education

2021-(ongoing)	PhD in Mathematics from The University of Oklahoma, Norman, OK, US
2019-2021	M. Math. Mathematics (First Division with Distinction) from Indian Statistical Institute, Bengaluru, Karnataka, India
2016-2019	B.Sc. (Hons.) Mathematics (First Class) from Ramakrishna Mission Residential College, Narendrapur, Kolkata, WB, India
2016	Grade O in Higher Secondary examination
2014	Grade AA in Secondary Examination

## Achievements

2021	Was among the 9 students selected for PhD at the prestigious TIFR (Tata Institute for Fundamental Research), Mumbai
2019	Got into the top quartile in Simon Marais Mathematics Competition and received a special mention
2019	Secured nationwide rank 10 in CSIR-UGC NET, December 2019.
2019	Secured nationwide rank 2 in the M. Math. entrance test of ISI (Indian Statistical Institute)
2019	Was among the 15 students selected for interview at the prestigious CMI (Chennai Mathematical Institute) for M.Sc. in Mathematics
2019	Secured nationwide rank 87 in JAM 2019 and was among the 5 students selected for admission in the prestigious IISc (Indian Institute of Science) for integrated PhD in Mathematics
2016	Received the prestigious INSPIRE SHE scholarship (for the period 2016-2019)

## Technical Skills

I know the languages SageMath, Rust, C++, C, Python, R, JavaScript, HTML,  $\text{\LaTeX}$ , SQL, Java. I'm also familiar with Linux and shell programming.

## Projects and Internships

2022	Reading course on Analytical Number Theory under the guidance of Dr. Ameya Pitale of the University of Oklahoma during August-December
2022	PAWS (Preliminary Arizona Winter School): Heights in Diophantine Geometry under the guidance of Dr. Padmavathi Srinivasan of ICERM during October-November
2022	Research project on statistical trends of coefficients of L-functions of elliptic curves under the guidance of Dr. Kimball Martin of the University of Oklahoma during May-August
2022	Reading course on Modular Forms under the guidance of Dr. Kimball Martin of the University of Oklahoma during January-May
2021	Project titled “Primes of the form $p = x^2 + ny^2$ ” under the guidance of Dr. Ramesh Sreekantan of ISI Bengaluru during January-May
2020	Category Theory course under Dr. Amit Kuber of IIT Kanpur in September
2017	NPTEL course in Graph Theory (2017) : Got 93% in the certification exam
2015	INSPIRE Internship during class XI

## Presentations

2021	“Primes of the Form $p = x^2 + ny^2$ ” in Student Algebra Seminar at the University of Oklahoma in November
2019	“Planar Graphs and n-Holed Tori” at RKMRC Narendrapur in February

## Conferences Attended

2022	TORA (Texas-Oklahoma Representations and Automorphic forms) XI from April 1-3 at Oklahoma State University, Stillwater, OK, US
2016,17,18	Analytica at St. Xavier’s College, Kolkata, India

## Standardised Tests

- **TOEFL iBT (November 2019)**  
Reading (29), Listening (30), Speaking (25) and Writing (26)  
Total - **110/120**

## Extracurricular Activities

I’m a hobbyist programmer and an active supporter of the FOSS movement. I’m also interested in literature. I’ve published several poems in both my native language Bangla and English. I like to participate in Quizzes, having competed in state level competitions and won awards in district level competitions. I’ve helped organize many events during my college days. Also, like most people, I love music and movies.

## Declaration

I hereby declare that the details and information given above are complete and true to the best of my knowledge.

Date : November 7, 2022  
Place : Norman, OK, US

[SAYANTAN SANTRA]  
Signature