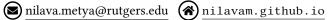
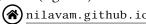
NILAVA METYA

Highland Park, NJ - 08904, USA DOB: December 30, 2001 (Age: 22)





EDUCATION

Rutgers, the State University of New Doctor of Philosophy in Mathematics		Sep '22 – (exp	ected) '27
		Piscataway, New J	ersey, USA
Chennai Mathematical Institute	st attempt just bejore program startea)	Aug '19 -	- May '22
Position: Third (out of 55 students) (completed degree requirements in 2.5		72/10 Chennai, Tamil N	ladu, India
Don Bosco School, Liluah	,	Apr '06	– Mar '19
Indian School Certificate (ISC) 2019 Per Position: First in science stream (~ 55 Indian Certificate of Secondary Educati Position: First in school (~ 180 studen	students), second overall (~ 180 students) on (ICSE) 2017 Percentage: 96.6%	Howrah, West Be	ngal, India
RELEVANT COURSEWORK			
 Matrix Computations Differential Equations Haskell, Python Object Oriented Programming Algorithm Design + Analysis 	 Discrete Mathematics Automata Theory Lambda Calculus Newtonian, Lagrangian, Hamiltonian mechanics 	 Relativity, Dynamical S Sheaves and Schemes P Probability Rutgers Convex Optimization P Learning Theory Rutgers 	rinceton $rinceton$
PUBLICATIONS/PREPRINTS			
1. G DePaul, S Hoşten, N Metya , I Nor Journal of Algebraic Statistics	neta. Degrees of the Wasserstein distan	ce to small toric models.	
RELEVANT TALKS DELIVER	ED		
Principal Components along Quive	r representations 1 talk Rutgers co	urse: Computational Topology	Dec '23
Inference on growth process of a ne	${f twork} \mid 1 \; talk \mid$ Rutgers course: $Data \; M$	Mining	Dec '23
Complexity of Optimization $\mid 1 \; talk$	Rutgers Pizza Seminar		Oct '23
Complexity of Computing Wassers	tein Distance 1 talk Apprenticeship	Week at IMSI, Chicago	Oct '23
Kneser graph coloring $\mid 1 \; talk \mid$ Rutg	ers Graduate Combinatorics Seminar		Oct '22
Fiedler vector method 1 talk CMI course: Matrix Computations			May '22
Markov Chain Monte Carlo $\mid 1 \; talk \mid$	Internship with <i>Prof Ramamoorthi</i>		Sep '21
ATTENDANCE IN CONFEREN	ices/workshops		
Princeton Machine Learning Theor	y Summer School Summer School P	rinceton	Aug '24
Efficient Algorithms for High Dime	nsional Metrics Workshop DIMACS	S, Rutgers, New Brunswick	May '24
Bayesian Statistics and Statistical Le	earning Workshop IMSI, Chicago		Dec '23
Algebraic Statistics for Ecological at	nd Biological Systems Workshop IN	/ISI, Chicago	Oct '23
Apprenticeship Week: Varieties fro	m Statistics IMSI, Chicago		Oct '23
Invitation to Algebraic Statistics an	d Applications IMSI, Chicago		Sep '23
Permutation and Causal Inference:	Connections and Applications IMS	SI, Chicago	Aug '23

Algebraic Methods in Biochemical Reaction Networks MPI, Leipzig

Jun '23

Honours and Awards

Nominated by Rutgers Math department for SLMath summer school

Jun '23

Summer school at Leipzig - awarded full travel funding. Only two students from Rutgers Math were fully funded by SLMath.

Academic Excellence Award at Rutgers

Sep '22

Received a certificate and \$100 based on performance in Written Qualifying Exams.

Shriram Scholarship at CMI

'19 – '22

Received institutional fee waiver and monthly stipend (based on entrance exam).

Ranked 4^{th} nationally at the *Bachelor of Statistics* (B.Stat.) entrance examination

'19

Indian Statistical Institute (ISI)

Informatics Olympiad

'17, '18, '19

Selected among (approx) top 100-130 school students in India in Zonal Informatics Olympiad (ZIO).

Mathematical Olympiad

Jan '18

Selected for Indian National Mathematical Olympiad (INMO) Training Camp | top 30 school students in West Bengal.

Program in Mathematics for Young Scientists (PROMYS)

'18, '19, '20, '21

Awarded the **Tara and Jasubhai Mehta Fellowship** to PROMYS (among 5 Indian school students in 2018) based on a competitive process. Participated twice as a student ('18, '19) and twice as a counselor ('20, '21).

Others

- Qualified for **International Collegiate Programming Contest** (ICPC) Kharagpur regionals and Amritapuri regionals in 2019 and secured rank 35 among (approx) 90 university teams at Kharagpur.
- Selected among top 30 students in India to participate in **Scholastic Test of Excellence in Mathematical Sciences** (STEMS) camp at CMI in 2018, based on a competitive exam (across grades 9-12 and across Math, Physics, Computer Science).
- Secured the **third position** in **Mathematics Talent Reward Programme** (MTRP) 2016, organized by ISI Kolkata, based on a competitive exam and quizzes at a camp.

SELECTED TEACHING/GRADING EXPERIENCE

Head Counselor at PROMYS India | IISc BangaloreMay – Jun '23Grader | Rutgers UniversitySep '22 – May '24Teaching Assistant | Chennai Mathematical InstituteDec '20 – May '22Faculty at Ramanujan School of Mathematics | KolkataMay '19 – July '22

Taught high-school students competitive math for math olympiad, CMI, ISI entrance exams

SKILLS

Research	Optimization and AI/ML in game theory, especially distributionally robust optimization
Soft-skills	Active team-worker, collaborative problem solver, looks forward to tricky puzzles
Languages	Bengali (mother tongue), English (fluent), Hindi (fluent)
Programming	Python, C++, R, Haskell, MATLAB, JAVA, HTML, SageMath, Macaulay2
Documentation	LATEX, Microsoft Word