Shihan Kanungo

shihankanungo.github.io | US citizen | shihankanungo@gmail.com

EDUCATION

Languages: English (native) & French (beginner).

Henry M Gunn High School GPA 3.96/4.46W San Josè State University (SJSU) GPA 4.0	
MATHEMATICS RESEARCH (PUBLICATIONS/PREPRINTS)	
 MIT PRIMES-USA (2024 Representation Theory; 2023 Commutative Algebra)	
San José State University (SJSU) (Number Theory, 2024)	
 On Product Formulas of Guillera and Sondow (with J. Schettler) [arXiv] (2024) American Mathematical Monthly. Submitted. Reference: Dr. J. Schettler (SJSU) 	
EXPOSITORY PAPERS	MATH COURSES
David Gale's Subset Takeaway Game, Combinatorial Game Theory ('24)	San José State University (Graduate courses shown in color)
 Space-Filling Curves, Real Analysis ('24) Chromatic Polynomials, Graph Theory ('24) Lagrangian and Hamiltonian Mechanics, Dynamical Systems ('24). Large Gaps Between Primes, Analytic Number Theory ('24) Dynamical Billiards, Ergodic Theory ('24) Arithmetic Dynamics, Number Theory ('23) Minimal surfaces, Differential Geometry ('22) Herbert Wilf's snake-oil method, Generating Functions ('21) Mixing-time estimates for riffle shuffle, Markov chains ('20) Classifying groups of certain orders, Algebra ('20) HONORS & AWARDS 85th Annual Putnam Competition. Honorable mention ('24) ST. Yau Science Award. USA Bronze medal in Mathematics ('24) USAPhO Gold Medal & US Physics Team (top 20) ('24) WSS, World Science Scholar ('24) Spirit of Ramanujan \$2k Fellowship ('23) USAMTS Gold Medal ('23) USAMO (USA Math Olympiad) ('22, '25) AIME, 6-time qualifier. 13/15 ('25); 11/15 ('22,'24) 	A+ MATH 231A Real Analysis Slobodan Simic
• Math Kangaroo (Level 12) USA rank 4 ('22)	Markov Chains, Abstract Algebra, Real Analysis2020–'21
CAMPS & PROGRAMS	Art of Problem Solving (AoPS)
• USAPhO Team Training Camp, Univ. of Maryland. (Jun '24)	Group Theory (A+), Calculus (A+)
• JMM25 PME Contributed Session. Presenter (Jan '25)	MUSIC
 MAA MathFest '24 Research in Motion. Presenter (Aug '24) JMM24 AMS-PME Poster Session. Presenter (Jan '24) SWIM23, MIT. Presenter. (Aug '23) The Special Lectures. Kharkiv-Vienna International Science School. Invitee. (Aug 2023) 	 Stanford Jazz Workshop (2024) Duke Ellington award; Outstanding Musicianship award Northern California Young Talents Competition (2023) First place, solo violin classical performance Golden State Youth Orchestra (GSYO)
Technical Skills: Python, Java, MATLAB, ŁTĘX, spreadsheets.	 Assistant concertmaster. Camilla Kolchinsky Orchestra (2023) Concertmaster. Camerata & Chamber Players Orch. ('20-'22)