Shihan Kanungo

shihankanungo@gmail.com | US citizen | san francisco & bay area

EDUCATION	
Henry M Gunn High School GPA 3.96/4.46W San Josè State University (SJSU) GPA 4.0	
 Mixed Tensor Products, Capelli Berezinians, and Newton's Formul Transform. Groups., Submitted. Won USA Bronze medal in Mat Contributed Session for Research by Undergraduates. Reference: 	a for $\mathfrak{gl}(m n)$ (with S. Erat, A. Kannan) [arXiv] (2024) thematics at ST. Yau HS Science Award. Presented at JMM25 PME Dr. Arun Kannan (MIT)
A weaker notion of the finite factorization property. (with H. Jiang, Commun. Korson Math. Soc. 20 (2004), pp. 2, 242, 222. Properties.	
Commun. Korean Math. Soc. 39 (2024), no. 2, 313-329. Presented a	
San José State University (SJSU) (Number Theory, 2024)	
On Product Formulas of Guillera and Sondow (with J. Schettler) [a	arXiv] (2024) 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 in color)
• Space-Filling Curves, Real Analysis ('24)	A+ MATH 231A Real Analysis Slobodan Simic
• Large Gaps Between Primes, Analytic Number Theory ('24)	— MATH 231B Functional Analysis Slobodan Simic
• Dynamical Billiards, Ergodic Theory ('24)	 MATH 233A Applied Mathematics Daniel Brinkmann
• Arithmetic Dynamics, Number Theory ('23)	A+ MATH 234 Advanced Dynamical Systems Liam Stanton '24 Sp
 Minimal Surfaces, Differential Geometry ('22) Herbert Wilf's Snake-oil method, Generating Functions ('21) 	— MATH 285A Stochastic Methods Liam Stanton
Mixing-time estimates for riffle shuffle, Markov chains (20)	A+ MATH 229 Advanced Matrix Theory Wasin So
• Classifying groups of certain orders, Algebra ('20)	MATH 285M Nonnegative Matrices Wasin So
addonyming groups of contain orders, rigesta (20)	A+ MATH 279A Graph Theory Yan Zhang
HONORS & AWARDS	A+ MATH 226 Theory of Numbers Jordan Schettler
• ST. Yau High School Science Award.	A MATH 39 Linear Algebra Dashiell Fryer
USA Bronze medalist in Mathematics (2024)	A+ MATH 129B Linear Algebra II wasin So
• USAPhO Gold Medal (US Physics Team) (2024)	— MATH 128B Abstract Algebra II Edgar Bering
• WSS, World Science Scholar (2024)	A+ MATH 131A Introduction to Analysis Tim Hsu
• Spirit of Ramanujan \$2k Fellowship (2023)	A+ MATH 131B Introduction to Real Variables Tim Hsu
• USAMTS Gold Medal (2023)	A+ MATH 138 Complex Variables Liam Stanton
• USAMO (USA Math Olympiad) (2022)	A+ MATH 179 Introduction to Graph Theory Sogol Jahanbekam '24 F
• Math Kangaroo (Level 12) USA rank 4 (2022)	Euler Circle (Grades not assigned)
	Complex Analysis I & II, Combinatorial Game Theory 2024–′25
CAMPS & PROGRAMS	Analytic Number Theory, Ergodic Theory, Number Theory .2023–'24
• USAPhO Team Training Camp, Univ. of Maryland. (Jun 2024)	Differential Geometry, Generating Functions2021–'22
• JMM25 PME Contributed Session. Presenter (Jan 2025)	Markov Chains, Abstract Algebra, Real Analysis 2020–'21
• MAA MathFest '24 Research in Motion. Presenter (Aug 2024)	Art of Problem Solving (AoPS)
• JMM24 AMS-PME Poster Session. Presenter (Jan 2024)	Group Theory (A+), Calculus (A+)
SWIM 2023, Summer Workshop for Intrepid Mathematicians, MIT. Presenter. (Aug 2023)	MUSIC
 The Special Lectures. Kharkiv-Vienna International Science School. Invitee. (Aug 2023) 	Stanford Jazz Workshop (2024) Duke Ellington award; Outstanding Musicianship award Northern Colifornia Voyana Talenta Connectition (2022)
Technical Skills: Python, Java, MATLAB, ŁTĘX, spreadsheets.	 Northern California Young Talents Competition (2023) First place, solo violin classical performance
Languages English (native) 9 Franch (hoginner)	Golden State Youth Orchestra (GSYO)

 Assistant concertmaster. Camilla Kolchinsky Orchestra (2023) o Concertmaster. Camerata & Chamber Players Orch. ('20-'22)

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