Shihan Kanungo

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EDUCATION	
Henry M Gunn High School GPA 3,96/4,46W San Josè State University (SJSU) GPA 4.0	
San José State University (SJSU) (Number Theory, 2024)	
 On Product Formulas of Guillera and Sondow (with J. Schettler) [American Mathematical Monthly. Submitted. Reference: Dr. J. Sch 	arXiv](2024)
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)	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 I Daniel Brinkmann
Arithmetic Dynamics, Number Theory ('23)	A+ MATH 234 Advanced Dynamical Systems Liam Stanton '24 Sp
• Minimal surfaces, Differential Geometry ('22)	MATH 285A Stochastic Methods Liam Stanton
Herbert Wilf's snake-oil method, Generating Functions ('21) Mining time a satisfactor for siffly a buffly with the control of the state of the	A+ MATH 229 Advanced Matrix Theory Wasin So
Mixing-time estimates for riffle shuffle, Markov chains ('20) Classifying groups of contain orders Markov ('30)	MATH 285M Nonnegative Matrices Wasin So
Classifying groups of certain orders, Algebra ('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 I 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)
Matri Karigaroo (Level 12) OSA falik 4 (2022)	Combinatorial Game Theory
CAMPS & PROGRAMS	Analytic Number Theory, Ergodic Theory, Number Theory .2023–'24
• USAPhO Team Training Camp, Univ. of Maryland. (Jun 2024)	Differential Geometry, Generating Functions
• 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 MUSIC
 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)
Technical Skills: Python, Java, MATLAB, ŁTĘX, spreadsheets.	First place, solo violin classical performance

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

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

• Golden State Youth Orchestra (GSYO)