

Rowan D. Shigeno

101 Cloverly Lane, West Chester, PA 19380

Webpage: rowanshigeno.com | Email: rowanshigeno@gmail.com | Cell: (610) 620-4682

Objective

Graduate mathematics student, music composer, and competitive endurance athlete building technically ambitious projects at the intersection of mathematics, computation, and signal processing. Drawn to problems requiring creativity, innovation, analytical depth, and patience in long-term execution.

Work & Volunteer Experience

- Music producer, self-employed Summer 2025 to present
Electric, classical, avant-garde, and thematic/soundtrack -style music composition.
- Tufts University, Mathematics Department Fall 2025 to present
Grader for Math 155 (Partial Differential Equations), Math 021 (Statistics)
- Research Assistant at the UMD Department of Computer Science Summer 2025
Proof-writer and algorithmic analyst for the Hilbert geometries project (mentor: Auguste Gezalyan)
- AI Analyst Intern at FSH Technologies (formerly Contenda) Spring 2025
AI-native development; RFP writing for bid proposals; prototype sandbox construction.
- Co-head of the Haverford Problem Solving Group (math club) Spring 2025
Assembled and wrote problem sets, to be discussed at weekly meetings.
- Tutor Doctor Main Line March 2024 to March 2025
One-on-one mathematics and SAT tutor
- Haverford College, Office of Academic Resources Fall 2024, Spring 2025
Peer-tutor in mathematics and computer science
- Haverford College, Mathematics Department Spring 2024
Teacher's Assistant for Math 121 (Multivariable Calculus)
- Tutor for Young Men and Women In Charge Program, West Chester, PA 2017 to 2020
Provided academic support to underprivileged students, focusing on mathematics and science.
- Volunteer for Andrew L. Hicks Jr. Foundation, West Chester, PA 2017 to 2020
Volunteer Hockey Coaching Assistant for Elementary School Practices
- StabilizOrtho, Exton, PA Summer 2018
Intern / assistant — primarily sorted, packaged, and labeled company products. Extensive use of Microsoft Excel.

Education

M.S. in Mathematics; focus in Algorithmic Analysis	Expected May 2027	Skills & Interests Algorithm design and analysis, music composition (award-winning composer in classical, avant-garde), product design, photography, creative writing, computational geometry, optimization, probability, proof development, programming (Java, Python, C/C++, algorithm implementation), competitive mathematics, running, entrepreneurship, Japanese language.
Tufts University, Somerville, MA	2025-2027	
IBM Data Science, basic certificates (5)	Received Jan 2025	
B.A. in Mathematics; focus in Computer Science	Received May 2025	
Haverford College, Haverford, PA	2021-2025	
High School Diploma	Received May 2021	
B. Reed Henderson High School, West Chester, PA	2018-2021	
Homeschool, with Emi Shigeno, M.D., mother & teacher	Birth-2014	
CMU Music Preparatory School, Piano Program, Prof. Hanna Li	2008-2011	

Awards & Achievements

- Patented a signal processing device for endurance athletes (USPTO ID 74453047). In progress; contact for details. Mar 2026 to present
- Finished 1st overall at the 2026 Boston Run to Remember Half Marathon, with a time of 1:10:19. May 2026
- Finished 2nd overall at the 2026 Toronto Marathon, with a time of 2:31:19. May 2026
- Haverford College First-Year Math Prize, awarded to highest-scoring Haverford College freshman on the Putnam Exam 2022
- Mathematical Association of America Award, Henderson High School 2021
- Score of 96 on the AMC12, placing in top 5% and qualifying for AIME (American Invitational Mathematics Exam) 2019
- Received Honorable Mention on PMTA music composition competition 2020
- GRE General Test: 324 (perfect math score); SAT II - Math Level 2 (10th): 800 (perfect score) 2024; 2018
- Member of National Math Honors (unofficial due to COVID) and National Honors Societies in high school 2019
- AP Scholar with Distinction (5's on Calculus AB [9th], Calculus BC [10th], Statistics [11th], and Comp Sci A [11th]). 2021

Relevant Coursework

Real Analysis II, Manifolds, Probability, Abstract Algebra II, Numerical Analysis, Computational Geometry, Automata Computability and Complexity, Convex Optimization for Stats and DS, Analysis of Algorithms, Computational Number Theory, **Encoding Music**, Abstract Algebra I, Topology, Cryptography, Intro to CS and Data Structures, Complex Analysis, Partial Diff. Eq., Real Analysis, Multivariable Calc. w/ Linear Algebra, Linear Algebra.

Mathematical/Computational Work

" Visualizing Higher Order Structures in the Hilbert Geometry. "	Aug 2025
" An assortment of mathematical insights "	Dec 2025
" Cycles on Metric Graphs of given Entropy "	Apr 2025
" Predictable Behaviors of Collatz Chains "	Nov 2024
" Analysis of Chord Usage in Select Classical Composers "	Dec 2024
" Musical Data Analysis of Two Thematic Playlists "	Oct 2024

Music Composition/Production

" Arcane Perspiration " / " To run at night. "	Aug 2026
" Plastic Divinity "	Dec 2025
" Trajectories "	Oct 2025
" Banana Bread "	Jun 2025