

Aanya Kamath

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aanya.kamath@gmail.com

<https://aanyakamath.github.io>

Education

Evergreen Valley High School / High School Degree

August 2022 - Present, Expected Graduation- June 2026

Current Coursework: AP Biology, AP Statistics, AP English Language and Composition, AP US Government and Politics

Completed Coursework: Biology 1, PreCalculus, AP Physics 1 (AP Exam Score: 5), AP Calculus AB (AP Exam Score: 5), AP Environmental Science (AP Exam Score: 5), AP Computer Science Principles (AP Exam Score: 5)

SAT (Superscore): 1580, Reading/Writing: 800, Math: 780

Other Coursework (Coursera): AI for Everyone, Introduction to Machine Learning, AI for Medicine

Honors & Awards: Scored in the top 10% of 2025 USA Biology Olympiad (USABO) Exam Takers, AP Scholar with Distinction, College Board National Recognition Award

Skills

Basic Python, Jupyter, Biopython, STAR, IGV

Projects

"A Survey of Genetic Risk Factors for Alzheimer's Disease",

November 2023, A Survey of Genetic Risk Factors for Alzheimer's Disease. Journal of Student Research, 12(4).

<https://www.jsr.org/hs/index.php/path/article/view/5246>

This paper surveys the different genetic variants that affect risk for Alzheimer's Disease, discusses the prevalence of each risk factor, and their effect on Alzheimer's Disease pathology.

"Potential AD Pathogenic Protein Domains in PSEN1 Isoforms",

This research work identified a potentially pathogenic protein domain encoded in several mRNA transcripts of the PSEN1 gene that could increase risk for Alzheimer's Disease. I used biopython, STAR, and IGV for this research.

Accepted for publication to the National High School Journal of Science, Expected Publication: November 2025

Paper:

https://aanyakamath.github.io/papers/potential_ad_pathogenic_protein.pdf

Code: https://github.com/aanyakamath/alz_risk_analysis

Experience

Stanford Neuroscience Journal Club

August 2025 - Present, Remote

Engaged in discussions on neuroscience research, evaluated literature with Stanford experts, and deepened knowledge of field challenges.

IYRC + Columbia Medical Humanities Program: Public Health

July 2025 - August 2025, Remote

Completed a comprehensive public health course as a participant in the public health cohort of the Medical Humanities program hosted by the IYRC in partnership with the Columbia University Vagelos College of Physicians and Surgeons.

UCLA Neuroscience High School Scholars Program

June 2025 - July 2025, Remote

Participant in the Neuroscience High School Scholars Virtual Summer Program hosted by the Mary S. Easton Center for Alzheimer's Research and Care at UCLA. Completed a neuroscience course, attended speaker events, and made a PSA video on the public health disparities related to Alzheimer's Disease.

Ketos/ Summer Intern

June 2025 - July 2025, Remote

Created website content for Ketos, a company designing and providing water testing equipment technologies for industrial, agricultural, and municipal approaches. Wrote content focusing on environmental pollutants.

The Global Health Inquirer/ Team Writer

May 2025 - PRESENT, Remote

Writer for the Equity Disparities section of the Global Health Inquirer, a student-led publication covering issues in global public health.

EVHS Youth Movement Against Alzheimer's Disease (YMAA)/ Vice President

January 2025 - PRESENT, San Jose

Organizes events and creates social media posts to spread awareness and fundraise for the cause of Alzheimer's Disease. Active member of the club since September 2022, received the position of Vice President in January 2025.

The Explore Foundations / Board Member

December 2024 - PRESENT, San Jose

Organizes partnerships with local libraries and schools for the Explore Foundations, a student-led nonprofit aiming to provide students with STEM classes, tutoring, and accessible STEM kits.

**Silicon Valley Alzheimer's Association Walk to End Alzheimer's
Community Engagement Committee / Committee Member**

March 2024 - PRESENT, San Jose

Promotes community engagement for the annual Walk to End Alzheimer's event to raise money for Alzheimer's care, support, and research.

Evergreen Branch Library Teens Reach / President

January 2024 - PRESENT, San Jose

Representative of the Teens Reach volunteers at the Evergreen Branch of the San Jose Public Library. Plans and organizes events at the library. Tutored AP Physics 1 students and taught physics to elementary students. Taught Spanish classes to elementary. Accumulated 140 volunteer hours.

References

By Request, please email me at aanya.kamath@gmail.com