

# Aanya Kamath

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## Aanya Kamath

[aanya.kamath@gmail.com](mailto:aanya.kamath@gmail.com)

<https://aanyakamath.github.io>

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## Education

### Evergreen Valley High School / High School Degree

August 2022 - PRESENT, Expected Graduation- June 2026

Current Coursework: AP Biology, AP Statistics, Hereditary Biology (Dual Enrollment through De Anza Community College)

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 (November 2024): 1540

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

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

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## Skills

Basic Python, Jupyter, Biopython, STAR, IGV.

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## 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: August

[https://github.com/aanyakamath/alz\\_risk\\_analysis](https://github.com/aanyakamath/alz_risk_analysis)

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## Experience

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### **IYRC Medical Humanities Program: Public Health**

August 2025

Will be 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 - Present

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

### **Ketos / Summer Intern**

June 2025 - PRESENT

Creates website content for Ketos, a company that provides water testing equipment services for industrial, agricultural, and municipal approaches. Wrote content focusing on environmental pollutants and different water monitoring technologies.

### **The Global Health Inquirer / Team Writer**

June 2025 - PRESENT

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 / Public Relations Officer**

December 2024 - PRESENT, SAN JOSE

Public Relations Officer for the Explore Foundation, a nonprofit aiming to provide students with STEM classes, tutoring, and accessible STEM kits. Organizes partnerships with local libraries and schools. Creates flyers, social media content, and website content.

### **2024 Alzheimer's Association Walk to End Alzheimer's Community Engagement Committee / Committee Member**

March 2024 - PRESENT, SAN JOSE

Promotes community engagement for Walk to End Alzheimer's Events to raise money for Alzheimer's Disease care, support, and research.

### **Evergreen Branch Library / President of Teens Reach**

January 2024 - PRESENT, SAN JOSE

Representative of the Teens Reach Volunteers at Evergreen Branch Library in San Jose. Plans and organizes events at the library. Tutors AP Physics 1 to 10th and 11th graders as well as physics classes to elementary students. Taught Spanish classes to elementary students.

## References

By Request, please email me at [aanva.kamath@gmail.com](mailto:aanva.kamath@gmail.com)