

Shreyas Annagiri

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ACADEMICS

GPA: 4.0 UW, 4.55 W (past year)

SAT: 1560 (770 Math, 790 Evidence Based Reading/Writing)

IB Higher Level (HL): Biology, Chemistry, Psychology, Math Analysis and Approaches (Calculus, Trigonometry and Statistics)

AP: Statistics (AP Exam Score: 5)

Honors: Physics, Pre-Calculus

Self-Studied Materials: Campbell and Reece's Biology, Vander's Human Physiology, Frazier's Essentials of Human Diseases and Conditions, The Color Atlas of Biochemistry, Copstead's Pathophysiology, The Color Atlas of Neuroscience

EXTRACURRICULARS AND INTERESTS

Research on ALS at Penn State Med School Neurosurgery | Dec 2021 – current

Part of a larger project working to identify and track digital biomarkers to predict changes in the progression of ALS. Personal project deals with changes in voice picked up by a microphone (based on a battery of clinical tests) and how they may coordinate to bulbar function changes on the ALSFRS-R scale after clinical testing. Used MATLAB to conduct spectral analysis and look at the frequency and duration of voice exercises from patients, used novel techniques (MFCCs, PCA) to track multiple features. Used calculus and trigonometry to analyze instantaneous rate of change in spectral waves, then compared the results to a base line using the Chi Square Goodness of Fit statistical test and linear regression (different contexts).

USA Biology Olympiad |2020-Present

Leadership Officer, Bio Olympiad Club. Participated in 2020 Olympiad and secured Top 3% rank after clearing the open exam and progressing to the semifinal exam. Read various undergraduate, graduate and medical school textbooks to prepare for the open and semifinal exams.

Health Occupations Students Of America - HOSA | September 2019 – Present

Leadership Officer, STEM Academy Chapter. Helped organized food drive for Lord's pantry and supplied over 300+ items. Managed registration and guidance of over 100 members. Participated in prepared speaking and pathophysiology competitive events at the international level.

ABOUT ME

I am a self-motivated, curious and passionate student who is most interested in the biochemical sciences and medicine. I also enjoy learning about the interconnected nature of knowledge and discovering unique ways to view and understand the world.

I enjoy learning about the ways I can connect my other passions, such as global politics, film production, poetry, and art to the development and application of holistic healthcare.

MY AWARDS AND RECOGNITIONS

- United States Biology Olympiad top 3%
- British Biology Olympiad Bronze Medal (top 30% internationally)
- HOSA State Silver Champion (Prepared Speaking)
- HOSA State Silver Champion (Pathophysiology)
- PPES CEO's Personal "Outstanding Award" and Recognition"
- Public Forum Debate League Finals – 2nd place
- *Société Honoraire de Français* member
- Gift of Life Donor Program Ambassador Recognition
- Regional PA Media and Design Film Winner
- Medium: Journal of Journeys Publication Feature
- Medium: Writer's Blokke Publication Feature

SA Blogs | Blog Owner & Founder | May 2020 – Present

Started a blog site during the pandemic to make a difference by reaching out to the community - near and far, to hear about personal challenges and unique experiences. Provided a platform for voices of local businesses, teachers, and community leaders to be heard and shared.

10,000+ views total, 300~ views per post, 200 followers on Medium
Published in Journal of Journeys, Medium with over 2k followers

Gift of Life Donor Program and UNOS – Student Ambassador, Volunteer | November 2017 - Present

As a student ambassador, sought to raise awareness about organ donation. Organized several events at various avenues including public libraries and school fairs and signed up many high school students and adults as potential organ donors. Organized food drive in support of Gift of life family house in Philadelphia. Facilitated virtual visit and workshop to high school students at the Downingtown Stem Academy through HOSA Club.

Pardada Pardadi Education Society (PPES)| Ambassador | Sep 2020-Present

As a student ambassador for PPES, I organized a fundraiser to support PPES's goal to build a computer lab for women in rural Uttar Pradesh, India. PPES works to provide opportunities for social and economic development of women in rural India.

Chief Editor, Stem Horizons | Downingtown Stem Academy Newspaper| 2020 – Present

Selected to be the Chief editor for the School Newspaper. Managing a team of 7 key writers. Completely redesigned the online version of the newspaper. Provided opportunity to cover diverse topics by redefining and expanding on column offerings.

Speed Cuber | National Level Competitor | Tutor | 2020 - Present

Founded the cubing collective (unregistered). Organized free online classes targeted towards kids interested in cubing across the globe. Recorded personal best time of 17 seconds (3x3). Attended competitions at the University of Pennsylvania, Princeton University, Arcadia University and more.

Movie Magic Club |Primary Director| 2020 – Present

The Movie Magic Club at STEM Academy bringing in students with interests in moviemaking. Club explores all aspects of Film/Movie creation. Currently working on a long-form drama with intent to apply to national and international festivals in August 2022 as its primary director, as well as co-writer, co-editor and co-cinematographer.

Varsity Debate Team | 2019 – Present

Leadership Officer and Varsity Team competitor. Attended invitational competitions at the University of Pennsylvania and . Debated on topics such as Medicare for All, The Belt and Road Initiative, Space Force, the Universal Basic Income, Legalization of Drugs, Nuclear First Use, and the fortification of NATO defenses in the Baltic states/Turkey (different topics).

- Centre for Talented Youth Scholar
- Cubing USA National Level Qualifier

KEY TOOLS AND SKILLS

- MATLAB
- Excel
- R Statistical Analysis
- Project Management Tools– Trello, Notion, Gantt
- WordPress
- Editing Software - Davinci Resolve Studio, Final Cut Pro
- Music – Singing (Indian classical), Drums (percussion), Keyboard/Piano

