

# Richa Bhattacharya

UC Berkeley 2022, The Harker School 2018

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## Summary

Freshman at the University of Berkeley seeking opportunities in the fields of computer science, bioinformatics, cognitive science, mathematics, and related fields.

## Education

- Background in Java, R, and Python.
- Working knowledge of Octave, HTML, and Matlab
- Member of National Honor Society
- Publicity Director for Harker WiSTEM (Women in STEM)
- Member of Spanish National Honor Society
- President of the Harker Tutoring Club
- Received NCWIT Distinction Award for Aspirations in Computing

## Projects

- Focused project studying brain lesions on MRI, involving machine learning and MATLAB code at Stanford Imaging Lab; Extended to classification, prediction, and data analysis of brain data using R.
- Annotation and website analysis for Stanford Center for Poverty and Inequality; Simple comparative study of legacy website to drive an effective design of the new website.
- Developed a simple quantitative model for early detection of glaucoma based on Optical Coherence Tomography (OCT) retinal fundus images.
- Harker BEcon: Presented a business product as the Walt Disney Company introducing a touring advertisement service, complete with discount coupons and other incentives based on expense analysis to attract customers.

- Nominated for Synopsys “Santa Clara Valley Science and Engineering Fair” in 2013; Project topic was *Effectiveness of Luminol as a Blood Detector on Different Surfaces*.
- Nominated for Synopsys “Santa Clara Valley Science and Engineering Fair” in 2012; Project topic was *Effect of Temperature and Humidity on Solar Energy*.

## Languages

- Spanish: Read, write, speak fluently; National Honor Society; Gold Placement Award in National Spanish Exam 2013
- Bengali - Read, write, and speak fluently
- Hindi - Speak and understand

## Community Service and Leadership

- WiSTEM Publicity Director: Involved in organizing seminars and the annual Research Symposium to promote interest in STEM and raising education funds for WISER in Kenya.
- Co-President of Harker Tutoring Club: Recreated the entire foundation for the club; Connect qualified tutors to students requesting mentorship.
- Volunteer at Reading Partners: Teach elementary school children reading, writing, and comprehension.
- Volunteer at Eco Magic, a conservation initiative at Stanford.
- Youth coordinator and choreographer for cultural performance group.
- Member of youth wing for Sanskriti, a Bay-Area based leading cultural non-profit organization for the South-Asian community.
- Volunteered and assisted in coaching young players for table tennis at the India Community Center.
- Co-coordinated projects for the kids at Palo Alto homeless shelter.
- Regular hair donor to Pantene Beautiful Lengths for cancer patients since middle school.

## Work Experience

- Teaching Assistant at Math Enrichment Summer Camp for Advanced Mathematics (Geometry)
- APCS Tutor
- Summer Camp Counselor at Mona Khan Dance Company