

# Anvika Singhal

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## EDUCATION:

### EASTSIDE PREPARATORY SCHOOL, KIRKLAND WA (CLASS OF 2025)

GPA 4.0. College-level coursework in biology, chemistry, physics, computer science, and mathematics. Seminar, lab, and research-based curriculum including laboratory experience working with DNA restriction, PCR, gene identification, and electrophoresis. Conducted research into extraterrestrial nucleobases on meteorites and their connections to the origins of life, transmissibility of Alzheimer's Disease and aerosolized transmission of prion diseases, and targeting cytotoxin transport systems in MRSA to reduce virulence. Independent study on oncological applications of biomolecular-focused ultrasound-directed drug delivery.

### JOHNS HOPKINS UNIVERSITY, BALTIMORE MD (2023 – PRESENT)

For-credit courses in psychology, data science/analytics, neuroscience, population genomics.

### CENTER FOR TALENTED YOUTH, JOHNS HOPKINS UNIVERSITY, BALTIMORE MD (2020 – PRESENT)

Advanced courses in mathematics, biology, chemistry, statistics, astrophysics, and economics.

### HARVARD UNIVERSITY, THROUGH EDX (2020)

Completed CS50x, Introduction to Computer Science.

## WORK EXPERIENCE:

### EASTSIDE PREPARATORY SCHOOL, KIRKLAND WA (SUMMER 2022, 2023) - Technology Intern

Responsible for computer setup, on-campus technology refresh, and technology orientation seminars.

### MINI MOUNTAIN SKI CENTER, BELLEVUE WA (12/2020 – PRESENT) – Ski/Snowboard Instructor

Teach skiing/snowboarding both indoors and outdoors. Professional Ski Instructors of America (PSIA) Level I certified.

### PAYAMS MUSIC, BOTHELL WA (10/2021 – PRESENT) - Piano Instructor

Instruct intermediate-level students. American College of Musicians Diploma in Social Music.

## SCIENTIFIC AND LABORATORY EXPERIENCE:

### FRED HUTCHINSON CANCER RESEARCH CENTER, SEATTLE WA (SUMMER 2024) – Singhvi Lab

Conducted *C. Elegans* worm maintenance, thermotaxis/chemotaxis/mechanosensory assays, and adapted/trained a machine learning model (SLEAP software and WormLab software) for worm tracking and data analysis.

### WESTERN WASHINGTON UNIVERSITY, BELLINGHAM WA (SUMMER 2024) – Bao Lab

Responsible for gold bipyramid nanoparticle synthesis, silver overgrowth, and gold replacement galvanic processes. Evaluated outcomes using UV-visible spectroscopy and scanning electron microscopy.

## SELECT VOLUNTEER AND EXTRACURRICULAR ACTIVITIES:

- Varsity Rowing Team – Captain, 3x Finalist in Youth NW Regional Championship
- Electrical Vehicle Construction Program – Club Lead and Project Manager
- [www.helping-hats.com](http://www.helping-hats.com) – Founder of non-profit that has funded over 30,000 meals

- US Citizen – References Available Upon Request •