



# SOPHIE GINSBERG-HAYES

## EDUCATION

### BROWN UNIVERSITY- PROVIDENCE, RI

Expected Graduation May 2024

- Double Major in Mechanical Engineering and Religious Studies, GPA: 3.71/4.0

### SEATTLE ACADEMY OF ARTS AND SCIENCES - SEATTLE, WA

Graduated June 2020

- High Honor Roll all four years, GPA: 3.93/4.0

## EXPIERNCE

### LAB INTERN | Brown University, Naik Lab

2021

- Ran an individual protein purification project that investigated the interaction of CaM and a binding site on a drug in development.

### LAB INTERN | Fred Hutchinson Cancer Research Center, Torok-Storb Lab

2020

- Conducted a colony assay project for cancer research. Specifically studied the viability of fresh and frozen canine blood cells for cancer research.

### HIGH SCHOOL SUMMER RESEARCH INTERN | Fred Hutchinson Cancer Research Center, Walter Lab

2019

- Conducted an RNA sequencing project which investigated the viability of CD33 protein as a target for an Acute Myeloid Leukemia antibody treatment. At the end of the internship, presented findings at summer research symposium.

### TEAM MEMBER | Brown University, Brown Formula Racing Team

2022- Present

- Worked on a small new member team and used CAD, machining, and design skills to create a pillow block wrench.

### F.I.R.S.T. ROBOTICS | Competed in F.I.R.S.T. Tech Challenge and F.I.R.S.T. Robotics Challenge

2016 - 2020

- Competed in For Inspiration and Recognition of Science and Technology (F.I.R.S.T.) all four years of high school and was team captain for three years. Selected to be one of 150 Dean's List Finalists out of thousands of competitors.
- Led teams as small as 8 to as large as 45 people. Also taught machine skills and how to design and build parts. Team awards: Think Award at World Championships; FRC Rookie Allstar and Second Seed Alliance at Districts.

## LEADERSHIP

### EXECUTIVE BOARD MEMBER | Brown University, Society of Women Engineers (S.W.E.)

2020 - Present

- Active Vice President handling finances and growing the S.W.E. legacy at Brown University.
- Joined as an executive board member my first year at Brown University.
- Planned events and helped foster an empowering and supportive community for female-identifying engineers on campus.

### SITE DIRECTOR | Girls Rock Math

2020 and 2022

- Ran specific summer camp sites and took responsibility for everything from campers' safety to creating schedules and organizing counselors.
- Met daily with teachers, assistant site directors, administrative staff, counselors, counselors in training, campers, and parents to ensure camp was successful in meeting goal of empowering girls in STEM.
- Handled all logistics to ensure campers had a safe and fun summer and came away confident in math.

### ACTIVE BROWN/RISD HILLEL MEMBER

2020 - Present

- Joined Jewish learning groups including Narrow Bridge Project Cohort and Jewish Learning Fellowship to discuss Jewish life and learning.

## TEACHING AND MENTORING

### ENGINEERING MENTOR | Brown University, Brown Design Workshop

2021 - Present

- Worked as Teaching Assistant in the Brown Design Workshop for the intro to engineering class at Brown University.
- Worked through the design process and projects with groups of 4 first-year engineering students.
- Passed on what I have learned and got first-year students excited about engineering, machining, and design.

### ROBOTICS MENTOR | The Wheeler School

2021- Present

- Mentored high school students and coached all aspects of F.I.R.S.T. robotics competition focusing on teaching engineering concepts and mechanism design.
- Helped students think critically and problem solve using concepts learned in school to design a robot that completed a given set of challenges.

### STEM TUTOR

2020 - 2022

- Tutored K-10 students in math and chemistry to supplement schoolwork so that students grew and felt stronger in STEM skills.

## PERSONAL

Born in Chongqing, China • Grew up in Seattle, WA • Love hiking, backpacking, and bouldering • Avid baker • NYT spelling bee fanatic



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