

# Daphne Qin

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## EDUCATION

**Rice University** - Houston, TX

May 2027

*Bachelor of Arts in Neuroscience, Pre-Medical Track*

**Stuyvesant High School** - New York, NY

Jun 2023

*Stuyvesant Diploma; GPA 95.75/100*

## RELEVANT COURSEWORK

Organic Chemistry, Physics C Mechanics + Electricity & Magnetism, Multivariable Calculus, AP Chemistry, AP Biology

## EXPERIENCE

**Rice Data Science** - Houston, TX

*Data Education and Exploration Program (DEEP) Contributor*

Aug 2023 - Nov 2023

Analyzed a public diabetes dataset in order to correlate different risk factors with positive diabetes diagnoses.

- Correlated BMI, HbA1c levels, and smoking with prevalence of diabetes using the Pandas, Matplotlib, and Seaborn libraries for visualizations and models.
- Presented diabetes models and significance to a panel of over 50 students during the club-wide showcase; team won first place at the showcase.

**Memorial Sloan Kettering Cancer Center** - New York, NY

*Intern at Boire Lab, Human Oncology and Pathogenesis Program*

Jul 2022 - Aug 2022

Conducted research on the effects of Id1 on leptomeningeal metastasis proliferation using cell culture and mouse models; supervised by Dr. Morgan Freret and Dr. Adrienne Boire (primary investigator).

- Reviewed literature to supplement ongoing research on Id1 behavior.
- Conducted in-vitro cell viability assays under hypoxic/normoxic conditions to study the behavior of Id1 in different environments.
- Prepared mouse brain slides for imaging to detect Id1 movement within the leptomeninges.
- Analyzed data using Graphpad to quantify the effects of Id1 proliferation under different environments.

**Freshman AP (FRAP) Tutoring** - New York, NY

*Co-Founder and President*

Sep 2020 - Aug 2023

Represented FRAP Tutoring and collaborated with biology teachers and tutors to promote tutoring for all freshmen.

- Mentored and expanded administration team to allow for more specialization within admin roles.
- Collaborated with teachers to organize and teach during one-on-one and group review sessions.
- Validated over 300 official volunteer hours with school administration.
- Expanded FRAP to cover the Modern Biology curriculum, thus expanding tutoring to over 150 students total.
- Successfully tripled number of participating tutors, resulting in greater tutor availability and increased tutee satisfaction.

**AACC Medical Shadowing Program** - Virtual

*Participant*

Dec 2020

Shadowed a panel of doctors from Shandong First Medical University for 20 hours total.

- Researched and presented on the Pterional Craniotomy approach to a panel of neurosurgeons to widespread acclaim.

## SKILLS

### **Laboratory**

Bench: viability/apoptosis assays, hypoxia chambers, anesthesia chamber preparation, micropipetting

Analysis: Graphpad, Excel

### **Spoken Languages**

English (native proficiency), Mandarin Chinese (conversational), Spanish (conversational)

## AWARDS & HONORS

**Certificate for Excellence in Technology Education**

Jun 2023

Annually awarded to three graduating Stuyvesant High School students for high honors in technology-related education.

**Thomas Richard and Julia Hadley Franklin Scholarship**

Apr 2023

Annually awarded to incoming Rice students based on scholarly standing.