Daphne Qin

Freshman at Rice University who is passionate about the intersection between medicine and technology. Conducted neuroscience-related cancer research at Memorial Sloan Kettering and am familiar with basic wet lab procedures. Co-founder of a biology-centric tutoring service which reached over three-fourths of the freshman class every year.

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Education

Rice University, Houston, TX   *Aug 2023 - May 2027*

Stuyvesant High School, New York, NY   *Sep 2019 - Jun 2023*

STUYVESANT DIPLOMA, GPA: 95.75/100

- **Awards**: Certificate for Excellence in Technology Education
- **Advanced Placement Classes**: Physics C Mech, E&M; Psychology; Calculus BC; Computer Science A; Spanish Language; Chemistry; Biology (all 5)
- **Honors Courses**: Advanced Computer Aided Design (100/100), Multivariable Calculus (99/100), Physics (98/100), Precalculus (98/100), Algebra (98/100), Geometry (92/100)

Experience

HOPP Program at Memorial Sloan Kettering Cancer Center, New York, NY

Intern at Boire Lab   *Jul 2022 - Aug 2022*

- Conducted research on the behavior of leptomeningeal metastasis under the supervision of Dr. Freret and Dr. Boire (Principal Investigator):
    - Selected chemicals for cell culture hypoxia/normoxia experiments.
    - Prepared anesthesia chamber in preparation for mice imaging.
    - Assembled mice brain slides.
- Presented research at an open house at the end of the summer.

Freshman AP (FRAP) Tutoring, New York, NY

President - Program Coordinator   *Jun 2022 - Aug 2023*

Represent FRAP Tutoring and collaborate with AP teachers and tutors to promote tutoring for all freshmen.

- Directed and hired administration team.
- Organized and examined one-on-one and group review sessions.
- Officially validated volunteer hours with school administration.

Co-founder & Administrator - Director of Marketing and Graphic Design   *Sep 2020 - Jun 2022*

Work to provide tutoring for all AP freshmen courses within Stuyvesant High School.

- Connected with AP Biology teachers to coordinate group review sessions attended by 60+ students each session.
- Designed flyers to promote FRAP and recruit tutors and tutees.
- Managed volunteer hours and created volunteer hour certificate graphics.

Stuyvesant/NYC Math Team, New York, NY   *Sep 2019 - Jun 2023*

DMI Media & Technology Committee Leader   *Oct 2022 - Dec 2022*

Coordinated team in designing shirts and sticker designs for school-hosted math competition; arranged distribution to 31 teams from across NYC.

Yellowstone Ecology Project, Yellowstone, MT

Field Intern   *Jun 2021 - Jul 2021*

Conducted field work with a group of 15 students from across the country to contribute to Yellowstone conservation efforts.

- Conducted bison surveys to contribute to the bison census and samples to study their migration and eating patterns.
- Gathered on-site data using bison and wolf telemetry, and bear surveys.
- Contributed to stopping the spread of invasive species.
- Earned an A with college credit, along with 35 hours of volunteer experience.

Skills

Computer Science

Languages: Java, Python 3 (SQLite3), Bash

Technology: Ubuntu Linux (WSL shell), Git; Object-Oriented Programming

Design

Graphics: Adobe Express, Adobe Fresco, Canva, ibisPaint

Computer-Aided Design: Onshape

Laboratory

Bench: viability/apoptosis assays, hypoxia chambers, micropipetting

Analysis: Graphpad, Excel

Languages

- **English**: native proficiency
- **Chinese**: conversational
- **Spanish**: conversational

Achievements

Certificate for Excellence in Technology Education

JUN 2023

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

Schoolhouse.world Top Tutor

AUG 2022

One of 20 selected from the June Bootcamp tutors, out of 1,000 total.

New York State Mathematics League Competition

APR 2021

4th place overall.

MetroHacks Women NYC Hackathon

APR 2019

Won third place in the Health division for Safe Nap, an app and device coded in Android Studio that tracks the sleeping patterns of babies.