

Helen Zhang

Levittown, New York

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SKILLS

LABORATORY KNOWLEDGE

Bacteria Assay
Cell Culture
Image Analysis
Protein Purification
Nanoparticle Synthesis
Reagent Preparation
HFC Electrode Assembly
Langmuir-Blodgett Trough

COMPUTER

Java
Python
R
HTML
CSS
GitHub
Microsoft Office

ART

Adobe Photoshop
Adobe Illustrator
Procreate

RESEARCH EXPERIENCE

WONG LABORATORY- Brown University

September 2019-Present

PLME Summer Research Assistantship

- Explored TCGA clinical data and differential gene expression using edgeR
- Investigating cancer cell motility in engineered and organ specific matrices

PARK LABORATORY- Boston Children's Hospital

Summer 2019

Summer Research Intern within Respiratory Diseases division

- *Streptococcus Pneumoniae* Killing Assay with CRAMP, ZmpB/ZmpC knockouts
- Glypican 3, Syndecan 1 CHO Cell Culture and Purification

Garcia Center for Polymers at Engineered Interfaces at Stony Brook University

- "Optimizing Molar Ratios of AuAg Alloy Nanoparticles to Improve Efficiency of Proton Exchange Membrane Fuel Cells"

Siemens Competition Semifinalist

WORK EXPERIENCE

RESIDENTIAL PEER LEADER (RPL)- Brown ORL

2019-2020

Community Assistant, oversaw residents and provided educational programming.

PINNACLE EDUCATION GROUP

SYOSSET, NY

- SAT, ESL, Living Environment Tutor

Summer 2018

- Organized curriculum and activities for advanced students

EDUCATION

BROWN UNIVERSITY

PROVIDENCE, RI

Sc.B Biology, A.B. Computer Science

Program in Liberal Medical Education

Class of 2022 (Anticipated)

- 8-year Combined BA/MD Program

GPA: 4.0/4.0

Coursework: Biological Design; Organic Chemistry I; Human Physiology; Object-Oriented Programming; Data Structures & Algorithms; Discrete Structures & Probability; Biochemistry; Genetics; Computational Molecular Biology; UI/UX

GENERAL DOUGLAS MACARTHUR HIGH SCHOOL

LEVITTOWN, NY

National AP Scholar

Class of 2018

National Merit Scholar

Valedictorian

Presidential Scholar Candidate

GPA: 104.18

LEADERSHIP EXPERIENCE

Create@Brown

2020- PRESENT

Co-Founder

PLME Senate Secretary

2019- PRESENT

Executive Board member

Meiklejohn Peer Advisor

2020-PRESENT

Brown Smart Woman Securities, CMO

2018- PRESENT

Focus on enhancing financial literacy, enhancing public outreach, design

MACARTHUR Science Olympiad President

2014-2018

Led team to States for 1st time in school history, 2nd at Regionals

Student Government, National Honor Society Treasurer

Orchestra Concertmaster, All-County, LISFA, Pit President, Tri-M VP