

EDUCATION

Wellesley College

Candidate for Bachelor of Arts in Chemistry with a minor in Economics GPA 3.61

Princeton High School

High School Diploma GPA 4.38

Gonzaga Preparatory High School

GPA 4.00

Wellesley, MA

Expected May 2026

Princeton, NJ

March 2019 – June 2022

Spokane, WA

August 2018 – March 2019

RESEARCH EXPERIENCE

Mala Radhakrishnan Medicinal Chemistry Laboratory

- Operation of VMD, MATLAB, and Linux
- Calculation of Electrostatic Binding Free Energies
- Optimization of Analysis Using Python

Wellesley, MA

January 2025 – Present

Dr. Dawn DeMeo Channing Division of Network Medicine

- **Brigham and Women's Hospital & Harvard Medical School**

- Managing & Analyzing Big Data - Buccal Methylation
 - Coding in R
 - Epigenetic Clocks
 - Implications of an Individual's Oral Exposome
- Conducted a Review of the Literature - Precision Dental Medicine in American Indian Populations
- Presented Summer Research on ***Environmental Exposures Impacting Oral Health***

Boston, MA

June & July 2024

Chris Arumainayagam Astrochemistry Laboratory Wellesley College

- Performing Data Collection & Analysis of Electron Stimulated Desorption
- Operation of instruments on Ultra-High Vacuum Chamber, & Mass Spectrometer
- Establishing recommendations for future research parameters & direction
- Edited Professional Abstract & Research publications & Thesis submission
- Presented ***Experimental Simulations of Cosmic Water Ice***; desorption of cationic species from D2O

Wellesley, MA

January – May 2024

NSCRC 2024

University of Florida Summer Health Professions Education Program

- Presented ***Common Oral Health Issues in Adolescence and Adulthood***
- Case Study on ***Racial Disparities in Infant and Maternal Mortality and Morbidity***
- Poster Presentation ***Breast Cancer Mutations in TP53, RB1, and PTEN genes***

Gainesville, FL

May & June 2023

CLINICAL EXPERIENCE

Brigham and Women's Hospital

Student Shadow in Primary Care

- Observed multiple Patient-Doctor interactions including Physicals, Check-ups, Examinations, New Patients, and Referrals

Boston, MA

July 2024

DenTull General Dentistry

Student Shadow in Cosmetic & General Dentistry under Dr. Janak Tull

- Observed multiple extractions, novel crown preparation, bone grafts, & implant preparations
- Followed long standing clients, learned to effectively establish community centered service
- Studied Doctor-Patient empathy, multi-language skills, autoclave operation, & assistant responsibilities

Princeton, NJ

July & August 2023

University of Florida Dental School Internship

Student Shadow in General Dentistry under the SHPEP Program

- Learned methods of care and administrative expectations of 3rd year dental students in clinicals.
- Completed 6 weeks of medical, dental, pharmacy, & public health coursework & intensives

Gainesville, FL

June 2023

Molly Gunsaulis Pediatric Dentistry

Student Shadow in Administration & Surgery under Dr. Molly Gunsaulis DDS

- Shadowed 30+ tongue-tie procedures, and 6 procedures under anesthesia
- Followed pediatric traumatic injuries & tooth extractions, & 12 Pre & Post Operative Consultations

Spokane Valley, WA

July 2022

Marimn Health Dentistry

Student Shadow under Dr. Taylor Wilkens DDS & Dental Director

- Assisted with model mouth scans, and created crowns with a 3D digital waterjet machine
- Shadowed 10+ routine & complex filling procedures, extensive extractions & acute care surgical plans

Plummer, ID

August 2021

Student Shadow under Dr. Matthew Johnson DDS MBA

- Shadowed pediatric dental examinations including simple fillings and tooth extractions
- Learned x-ray technique, cavity identification, & methodology for future care recommendations

COMMUNITY SERVICE (2017-2025) Presidential Gold Service Award Recipient 2020

American Red Cross (12 hours) <i>Blood Drive & Certified CPR & FIRST AID Volunteer</i> <ul style="list-style-type: none"> Conducted Blood Drive Campaigns & Recruitment Assisted Professional Personnel w/participant care 	AWANA Clubs & Summer VBS Leader (1,134 hrs) <ul style="list-style-type: none"> Educated 12 - 20 children ages 3-7 Encouraged health & safety protocols Taught music, memorization & sign language
Building Bridges STEM Tutor Volunteer (40 hrs) <ul style="list-style-type: none"> Tutored 15 underprivileged youth weekly in STEM 	UGM Camp Tschimican Hospitality (170 hrs) <ul style="list-style-type: none"> Served over 60 underprivileged/ at-risk youth
Ronald McDonald House (6 hours) <ul style="list-style-type: none"> Facilitated Crafts for pediatric patients & siblings 	Boston Children's Hospital (16 hrs) <ul style="list-style-type: none"> Assemble goodie bags for pediatric patients
Pinecroft Summer Camps Leader (504 hrs) <i>Senior Camp Counselor & Mentor 4 years</i> <ul style="list-style-type: none"> Mentored 10-12 at-risk students ages 8-12 Liaised for health & wellness & crisis prevention 	GPrep & Boys & Girls Club Food Drives (24 hrs) <i>Food Acquisition & Distribution Volunteer</i> <ul style="list-style-type: none"> Collected 100,000+ lbs of food to 1,000 families Packaged Meals for Boston Homeless Population
Hear Your Song Wellesley (10 hrs) <ul style="list-style-type: none"> Foster musical creativity among individuals with serious illnesses, and complex health needs Supported 3 children as they brainstormed, composed, and performed an original piece of music Checked-in with individuals, listening & care Encouraging them to embrace moments of joy 	Cru Wellesley Leader (290 hrs) <ul style="list-style-type: none"> Organizing/leading regional & Wellesley events including food drives, informationals, & meetings Identifying volunteer opportunities in Wellesley & Boston Group leader, encouraging Wellesley Students to look outside themselves, & serve in their community
Princeton Museum of Innovation & Leadership (85 hrs) <ul style="list-style-type: none"> Consulted for program design and development Assisted with website design Mercer County Science Fair Preparation & Flier Creation Head Judge Juniors Division – Mercer County Science & Engineering Fair 2025 	Art Camp for Girls! Co Designer/Leader (52 hrs) <ul style="list-style-type: none"> Pre-K - 5th grade culinary art & sewing/beading instructor.

LEADERSHIP POSITIONS (2022-2024)

- Wellesley PreDental Society** – 1st Year Representative 2022-23 – Social Chair 2023-24 – Co-President 2025
- Wellesley College Cru** – G3 Leader 2023-25 – Decorations Chair 2023-24 – Events Chair 2024-25 – Vice-President 2025
- Wellesley College Choir** – Historical Committee 2022-24 – Rehearsal Committee 2025

SKILLS

- Software & Admin.:** R, Adobe Photoshop, PDFjoiner, Google Suite, Microsoft Office Suite
- Language:** Proficient Spanish, English, & Basic French
- Certifications:** CPR/First Aid; Bloodborne Pathogens, Lifeguarding