

Walsh Crowley

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EDUCATION

Georgia Institute of Technology – Atlanta, Georgia GPA: 3.83 Anticipated Graduation May 2028

Bachelor of Science in Biomedical Engineering & Applied Languages and Intercultural Studies (Spanish)

- Relevant coursework in Medical Device Design, Spanish for Business, MATLAB, Python, and Physics.
- Completed the Language for Business and Technology Program in the Summer of 2025 in Buenos Aires, Argentina, practicing the Spanish language and researching local healthcare systems.
- Earned Dean's List Honors in all semesters enrolled.

RESEARCH

Georgia Institute of Technology

Atlanta, Georgia

Individual Undergraduate Research – Microbiome Mapping of Campus

January 2025 - May 2025

- Performed microbial analysis from start to finish, including field collection of soil samples to DNA sequencing and bioinformatic processing methods.
- Managed and filtered a 1-million-item sequencing dataset and utilized statistical analysis tests to observe trends in inter-bacterial population dynamics and overall soil nitrogen levels with nitrogen-fixing bacteria.

Wilson Research Lab - Undergraduate Research Assistant

August 2024 – December 2024

- Utilized PyMol and BLAST software to engineer targeted mutations in the SARS-CoV-2 envelope protein C-terminal domain, to determine the structure/function relationship.
- Gained experience in molecular cloning techniques, including bacterial transformation, PCR, and gel electrophoresis.
- Findings were presented in a research report to suggest potential mutation targets in vaccine development.

PROFESSIONAL EXPERIENCE

NSI Networking, Inc.

Sumner, Washington

Bookkeeper and Office Employee

June 2020 - Present

International e-commerce company involved with business-to-business transactions of end-of-life technology and consumer electronics.

- Financial account manager of 50+ international B2B clients, including purchase history verification, accounts payable/receivable, and checkbook reconciliation.
- Led a 6-month bookkeeping project to produce and digitize 10 years of disorganized financial records, ensuring audit readiness, data integrity, and creating a digitized, verifiable archive system.

MultiCare Health System

Tacoma, Washington

MultiCare Academy for Students in Healthcare

June 2023 – August 2023

- Observed the use of Ultrasound and MRI imaging for tumor diagnosis and radiation therapy planning to gain insight into the clinical processes from patient intake to diagnosis and treatment.
- Job-shadowed physicians during patient consultations, enhancing knowledge of provider-patient interactions and care in medical imaging departments.

Lake Jane Estates Inc.**Lead Lifeguard and Head Swim Instructor**

- Directed team of 15-20 employees, led training sessions, and ensured compliance with Red Cross safety protocols.
- Designed and implemented swim lesson curriculum for diverse needs of student groups of large class sizes, practicing communication and leadership skills.

LEADERSHIP EXPERIENCE

Wallace H. Coulter Department of Biomedical Engineering**Atlanta, Georgia****HealthReach Program Ambassador***November 2025 - Present*

- Create interactive STEM lessons for patients and students at Grady Hospital, demonstrating physiological principles as accessible and exciting concepts.
- Communication and adaptation of complex medicine and engineering concepts to non-technical audiences, specifically for K-12 students and elderly audiences.
- Direct collaboration with hospital administration and teams of Georgia Tech faculty to ensure positive and productive experiences for all involved parties.

Tau Kappa Epsilon Fraternity – Beta Pi Chapter**Georgia Institute of Technology****Treasurer***April 2025 - Present*

- Manage the finances of a 102-member fraternity chapter with \$1.15M annual cash flow.
- Planned fraternity budget for the 2025-2026 academic year, from determining member dues to shaping the organization's schedule.
- Leading ongoing alumni debt recollection initiative, returning over \$55,000 of the \$62,000 owed to the fraternity.

MultiCare Health System**Tacoma, Washington****Guest Experience Volunteer***October 2025 – Present*

- Greet and interact with guests to direct traffic flow, meet hospital administration needs, and alleviate stress for families and patients.

Building Beyond the Walls Organization**Enumclaw, Washington****Volunteer***December 2020 - Present*

- Providing under-resourced youth with access to education on the basics of construction, organizing classes, and instructing students on how to use power tools.

Tau Kappa Epsilon Fraternity – Beta Pi Chapter**Atlanta, Georgia****Fundraising Chair***December 2024 – April 2025*

- Organized and developed monthly fundraising initiatives to support house improvements and upgrades, fostering a sense of brotherhood.
- Fundraising events consistently raised upwards of \$1,000, requiring collaboration with more than 10 local businesses to provide chapter capital improvements.

TECHNICAL SKILLS & ABILITIES

Laboratory: PCR, Gel Electrophoresis, Bacteria Culturing, Microscopy**Software:** SolidWorks, Python, MATLAB, PyMol, Bioconductor, BLAST, Adobe Video Editing**Business Tools:** Microsoft Excel, PowerPoint, SAP Business One, QuickBooks**Clinical:** Patient Interaction, Medical Terminology, Medical Imaging Observation**Certifications:** Georgia Institute of Technology Lab Certified, CPR and First Aid Certified