

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.

Bonney Lake, Washington

Lead Lifeguard and Head Swim Instructor

May 2020 - August 2024

- 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