## Morgan Summerlin

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EDUCATION	
Georgia Institute of Technology, Atlanta, GA	August 2023 – May 2027
Bachelor of Science (B.Sc) in Biomedical Engineering, Minor in Computing & Intelligence	GPA: 3.86/4.0
EXPERIENCE	
Director of Programming	
Executive Board, Residence Hall Association	November 2024 – May 2025
• Managed RHA's budget of around \$30K to plan events that promote wellness for 10,000 reside	ents.
• Collaborated with an executive team of five people to plan these events as well as other campu	s organizations, ensuring
residents have the best on-campus living experience possible.	
Research Assistant Intern	
Mechanobiology REU, Virginia Commonwealth University	June 2024 – August 2024
• Investigated how fatty liver disease affects bone strength and assessed estrogen as a preventative	ve measure.
<ul> <li>Aided in Micro CT mice scans and mechanical testing on muscle and bone.</li> </ul>	
<ul> <li>Conducted statistical analysis on CT scan data utilizing 2-way ANOVA tests.</li> </ul>	
• Assessed gene correlation to bone strength using RNA extraction, cDNA creation, and qPCR.	
Lab Assistant	
Chemistry Stockroom, Georgia Institute of Technology	August 2023 – May 2024
• Stocked and organized chemicals, made solutions and prepped for lab each week, and kept lab	rooms cleaned and prepared.
Barista/Food Service	1 2022 1 (2022
Local Coffee of East Ridge, East Ridge, TN	June 2023 – August 2023
• Duties included barista work, food preparation, cashier work, serving items, and cleaning the st	tore.
RESEARCH	
Undergraduate Research Assistant	
Chan Lab in Nanomaterials & Drug Delivery, Georgia Institute of Technology	August 2024 – Present
• Created volatile-barcoded protease probes for breath-based diagnosis of respiratory diseases.	
• Engaged in animal work, volatile cleavage assays, BCA protein assays, Mass Spectrometry wo	ork, buffer preparation, thermal
desorption, and Python coding.	
Research Assistant	June 2022
<ul><li><i>Chemistry Research Lab, Tennessee Technological University</i></li><li>Worked on a treatment for cancer by creating square planar molecules that could potentially ha</li></ul>	
<ul> <li>Conducted NMR Spectroscopy to check that every chemical created was what it was intended.</li> </ul>	-
	to be.
EXTRACURRICULARS & LEADERSHIP	
Financial Coordinator	· · · · · · · · · · · · · · · · · · ·
	August 2024 – December 2024
• Managed the Council's budget and advised the community on appropriate spending, communic	
• Elected to the Financial Oversight and Programming Committees to help oversee budget and p	rogramming for RHA.
Biomedical Engineering Society	August 2024 Present
Georgia Institute of Technology	August 2024 – Present
• Learned about opportunities in biomedical engineering and connected to the national chapter o Bioinformatics Club	I DIVIES.
Georgia Institute of Technology	January 2024 – Present
• Learned about opportunities in research and industry relating to computational biology and bio	
	informatics.
CONFERENCES & PRESENTATIONS	
Biomedical Engineering Society National Conference, Baltimore, MD	October 2024
Linking Liver and Bone: Skeletal Fragility and Metabolic Dysfunction-Associated Steatotic Live	r Disease
Morgan Summerlin, Galen Goldscheitter, Evan Buettmann, and Henry Donahue	
AWARDS	
WIE George Family Foundation Scholarship 2024	2024 - 2025
Chattanooga Georgia Tech Alumni Scholarship 2023	2023 - 2027
Chattanooga Coca-Cola Centennial Scholarship 2023	2023 – 2027 2022 – D
Zell Miller Scholar	2023 – Present
SKILLS	

SKILLS

Programming: Java, MATLAB, Python

Wet Lab: NMR Spectroscopy, Micro CT, Muscle & Bone Mechanical Testing, Animal Work, RNA Extraction, cDNA Creation, qPCR, Volatile Cleavage Assays, BCA Protein Assays, Mass Spectrometry, Buffer Preparation, Thermal Desorption Data Analysis & Visualization: Data Viewer, CTAn, GraphPad Prism, Microsoft Excel