

Courtney Curtis

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EDUCATION

2019 – Present **B.S. Biomedical Engineering**, Georgia Institute of Technology, Atlanta, GA, USA
Major in Biomedical Engineering, Pre-Health
Expected Graduation: May 2024
Honors Program
GPA: 3.56

PROFESSIONAL EXPERIENCE

- 2023 – Present **Women of Color Initiative**, Georgia Institute of Technology, Atlanta, GA, USA
Ambassador
Connecting women of color at Georgia Tech to community and campus resources for improved matriculation and academic success.
- 2023 – 2023 **College of Sciences Pre-Health Practicum**, Georgia Institute of Technology, Atlanta, GA, USA
Clinical Shadow
Shadowed Pediatric Surgeons and Pediatric Endocrinologists to gain insight to the role of a physician, patient interactions, and common day-to-day routines.
- 2023 – 2023 **PricewaterhouseCoopers**, Los Angeles, CA, USA
Healthcare Consulting Intern
Created an active dashboard to manage project workstreams and track deliverables including presentations, meeting agendas, and development of action items. Conducted a process review using client operations and financial data to optimize cost. Assisted in the development of linear regression tools for analysis of patient length of stay in Alteryx. Developed client-facing dashboard in PowerBI to communicate patient length of stay insights.
- 2022 – 2023 **Housing and Residence Life**, Georgia Institute of Technology, Atlanta, GA, USA
Resident Advisor
Created a tight knit community on campus in which residents were supported academically, socially, and emotionally through 1-on-1 engagement and events.
- 2022 – 2022 **Owens & Minor**, Alpharetta, GA, USA
Nonwovens Research & Development Co-op
Led prototyping, testing, and statistical analysis of physical properties for nonwovens new product development in surgical environments. Formulated and documented test results to communicate opportunities for improvement in product design. Collaborated with subcontractors to prototype antimicrobial surgical equipment.
- 2022 – 2022 **PricewaterhouseCoopers**, Los Angeles, CA, USA
Consulting Solutions Intern
Led and managed a team consulting a pro-bono client regarding improvements to their company. Analyzed data and organized it to provide appropriate suggestions and develop a solution. Placed 2nd in pro-bono client pitch competition.
- 2022 – 2022 **Pathology Shadow & Scribe**, Los Angeles, CA, USA
Shadowed and scribed for a pathologist during autopsies and labs, using correct medical terms. Gained deeper understanding organ system functionality and unique identifiers. Reviewed skin and organ slides to learn proper histology and recognize abnormalities. Aided in writing up cases for cause of death determination.

- 2021 – 2022 **Administrative Services Center**, Georgia Institute of Technology, Atlanta, GA, USA
Program Specialist
 Developed updated process maps to accurately depict business processes and improve understanding of organizational processes. Led marketing campaign for the Administrative Services Center launch. Created thumbnails, highlight videos from meetings and townhalls, and informational videos to communicate the mission and vision of the Administrative Services Center.
- 2021 – 2021 **HEAL Clinical Education Network**, Remote
Social Media Intern
 Marketed accessible and free virtual clinical shadowing experience and courses for students on social media. Led weekly meetings with the Instagram and YouTube marketing teams. Created social media posts and highlight videos for weekly clinical experiences.
- Virtual Clinical Shadow*
 Attended weekly virtual shadowing sessions led by medical school students, medical residents, and physicians with both MD and DO backgrounds. Learned how to read a CBC, deduce abnormalities in X-rays, how to properly record patient symptoms, the process of differential diagnosis, and proper patient care and bedside manner.
- 2020 – Present **Itz Curly Scrunchies**, Douglasville, GA, USA
Small Business Owner
 Developed and maintain brand social media presence and engagement with customer base. Design, develop, manufacture, and distribute handmade satin curly hair products.
- 2020 – 2020 **Undergraduate Research Experience**, University of California San Diego, Remote
Intern
 Attended workshops on developing hypotheses, utilizing library resources, and experimental design. Attended virtual panels with UCSD professors to discuss conducting and publishing research.
- 2020 – 2020 **Lee Hecht Harrison**, Remote
Engagement Specialist
 Communicated with candidates to deliver career transition services provided by their previous employers. Researched and organized candidate information database in excel.
- 2019 – 2020 **Campus Recreation Center Aquatics**, Georgia Institute of Technology, Atlanta, GA, USA
Lifeguard
 Provided emergency aid (CPR, AED, Oxygen Administration, etc.) to patrons in need. Maintained a safe environment for patrons by cleaning and checking chemicals in the pool.

AWARDS & HONORS

2023	Winner for the Women of Color Initiative “Outstanding Undergraduate Impact Award”
2023	Spring semester “Faculty Honors”
2023	“OMED Tower Award” for academic excellence
2022	Fall semester “Dean’s List”
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2022	“OMED Tower Award” for academic excellence
2021	Fall semester “Dean’s List”
2021	Spring semester “Dean’s List”
2021	“OMED Tower Award” for academic excellence
2020	Fall semester “Dean’s List”
2020	Spring semester “Dean’s List”
2019	Fall semester “Dean’s List”

SCHOLARSHIPS & GRANTS

2023	Women in Engineering Scholarship
2022	Women in Engineering Scholarship
2021	Women in Engineering Scholarship
2021	Amplify Young Entrepreneurs Scholarship
2019	First Lady Forum Scholarship
2019	Zell Miller

RESEARCH EXPERIENCE

Natural Language Processing in Pathology Dynamics Lab

Spring 2024	Co-Author, NLP Data Error Analysis Lead
Fall 2023	Curation & Quality Control Leadership Team
Summer 2023	Curation & Quality Control Leadership Team
Spring 2023	Data Curation

ACADEMIC PROJECTS

Fall 2023	<p>Regenerating Hair Cells Through Stem Cell Therapy to Restore Hearing</p> <p>Developed a proposal for a stem cell therapy that would allow for the restoration of auditory function in cases of noise induced hearing loss.</p>
Spring 2023	<p>Just Breathe: Finding the Optimal Time and Effectiveness of Meditation in Reducing Stress for Undergraduate College Students</p> <p>Developed a circuit utilizing a bandpass filter, PPG and ECG sensors, and MATLAB algorithm to acquire pulse arrival time data and evaluate stress. Designed a protocol to determine optimal meditation time and the effectiveness of meditation in reducing stress in undergraduate students. Finding: The null hypothesis is accepted as there is no optimal meditation time for a decrease in stress.</p>
Spring 2022	<p>The Biochemical Relevance of Hydroxyurea in Sickle Cell Anemia</p> <p>Led and managed a team in researching and delivering a comprehensive presentation regarding how Hydroxyurea inhibits ribonucleotide reductase and DNA synthesis for sickled blood cells.</p>
Spring 2022	<p>Catheter Caretakers: Improving Catheter Design by Optimizing Flow Rate</p> <p>Developed a urinary catheter prototype based on specifications gathered through research and user interviews that reduces the likelihood of UTIs in patients by increasing exit flow rate by 75%.</p>
Spring 2021	<p>Monitoring Stress Levels in Health Disparity Groups</p> <p>Developed a wearable prototype that utilizes EKG triangulation to monitor heart rate and correlating stress levels to aid in managing type II diabetic symptoms in African American women.</p>
Fall 2020	<p>Resolving Bias in Engineering Design: Bias in AI Diagnosis of Melanoma</p> <p>Collaborated with a team to identify engineering biases in AI-dependent devices utilized in melanoma diagnosis and suggested solutions to resolve said biases.</p>

SKILLS

Related Professional Skills

Branding: Biteable, Canva, Hashtag Optimization

Data Analysis & Processing: Alteryx, MS Power BI, SharePoint, G-Suite, MS Office

Engineering: Prototyping, Quality and Analysis, Mathematical Systems Modeling

Organization: Project Management, Documentation, Process Map Development

Programming Languages: MATLAB, Python

Software: Fusion360, Arduino

Languages

Native English

Conversational French

Proficient Spanish

MEMBERSHIPS & AFFILIATIONS

2023 – Present **John Lewis Leadership Program Scholar**

2023 – Present **MV3 Scholar**

2023 – Present **NAACP**

2023 – Present **Black Women’s Support Group** | *Member Engagement Chair*

2022 – Present **Minority Association of Pre-Medicine Students**

2021 – Present **Salsa Club**

2019 – Present **National Society of Black Engineers**

2019 – Present **National Society of Professional Hispanic Engineers**

2019 – Present **Society of Women Engineers**

VOLUNTEER EXPERIENCE

Dec. 2023 **Douglas County High School IB Alumni Panel: College Experience & Preparation**

Oct. 2023 **Women in Engineering – Engineering Career Conference Biomedical Engineering Panel**

2022 – 2023 **GT HealthReach**

Patient Tutoring, Ronald McDonald House, Patient Engagement at Children’s Healthcare of Atlanta, GT Kid’s Club

March 2021 **Society of Women Engineers STEAM Workshop**

Nov. 2020 **Douglas County High School College Tips Presentation**

2019 – 2020 **Calculus Tutoring for High School Students**

June 2019 **Books for Africa**

HOBBIES

Sewing, crochet, dance, drawing, Minecraft, painting, reading, skating