

William York

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Education

GRADUATION 2022 | GEORGIA INSTITUTE OF TECHNOLOGY

- Candidate for B.S. in Biomedical Engineering
- Pre-health and Research Option
- Grand Challenges LLC
- 4.00 GPA

2018 | LAKESIDE HIGH SCHOOL

- 4.39/ 4.0 (4.0 unweighted)
- National Merit Commendable Scholar
- AP Scholar with Distinction

Skills

PROGRAMMING

- Python, Matlab, HTML

MACHINING

- Experience with CNC machines, laser cutters, CAD, 3D printing, SEM, electrospinning

Community Involvement

- Volunteering at Grady Hospital
- Volunteering as a STAMPS health ambassador on Georgia Tech.'s campus
- Volunteered in Huancayo, Peru with the Foundation for International Medical Relief of Children (FIMRC)
- Volunteered at Give Kids the World with Alternative Service Breaks (ASB)
- Volunteered at MedShare continuously to help send needed hospital and medical supplies overseas
- Volunteering with Students for One Health
- Volunteering with Georgia Tech Red Cross
- Volunteered with Beta Club in community 2015-2018 and with National Honor Society in 2016-2018
- Played piano in a concert that raised over \$6000 for the Juvenile Diabetes Research Foundation
- Continuously played piano for a local nursing home

Grand Challenges Project

- Working as a group to create new affordable, comprehensive diagnostic tools for stroke patients and their physical therapists
- Creating a new, easier method for stroke patients to be able to rehabilitate themselves at home
- Collaborating with multiple professors and doctors at Emory for clinical studies

Research

- Undergraduate research on controlled muscular regeneration after volumetric muscle loss (E. Botchwey lab)
- Working with electrospinning polymers to produce aligned nanofiber scaffolding
- Utilizing Uniform Manifold Approximation Projection (UMAP) for flow cytometry data analysis
- Creating Bacterial Sphingomyelinase-conjugated hydrogels for increased MSC exosome production

Honors and Awards

- Zell Miller Scholarship 2018-Present

- National Honor Society (>3.0, by invitation) 2016-2018
- Volunteered for music-related events and performances with Tri-M Honor Society (>3.4) 2015-2018
- State Nominee for Georgia Governor's Honors Program in Science (2016)
- Burger King Scholar (2018)

Leadership

- Logistics Director for Society of Asian Scientists and Engineers (SASE) 2019-2020
- Fundraising Chair for Student Hospital Connections (SHC) 2019-2020
- Vice President of Student Government Association Senior Class 2017-2018
- Vice President on Orchestra Leadership Council 2016-2017

Extracurriculars

- Pitches for Yellow Jacket Club Baseball
- Played varsity baseball for high school team and travel team
- Played the cello for high school mastery orchestra
- Played the piano as a member of the Atlanta Area Suzuki Piano Association