

BENJAMIN AHN

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<https://bioben.github.io>

EDUCATION

Georgia Institute of Technology

GPA: 4.0, Gold Scholar – top 2% merit scholarship program, Honors Program

Bachelor of Science in Biological Sciences, Spanish Minor, Computational Biology Certificate

Atlanta, Georgia

May 2022

Johns Creek High School

President Class Council, Mock Trial Captain, Music Director of *Sing-chronized* a-capella group

Johns Creek, Georgia

May 2018

WORK EXPERIENCE

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, Georgia

Neuroinflammation Researcher

1/19 - present

- Experiment with inflammatory inhibitors & cytokines to modulate neuroimmune cell activity in Alzheimer's Disease
- Characterize neuronal & microglia protein expression in cell cultures & *in vivo* mouse models via fluorescent staining
- Use fluorescent microscopy to detect protein expression in cell culture & histology samples
- Build computational pipelines to quantify protein expression & microglial morphology using 2D/3D images
- Programming image-processing pipeline to correct nonuniform microscope illumination for histology samples

GEORGIA TECH-EMORY COVID-19 HACKATHON

Georgia Tech

Lead Programmer & Developer

Summer 2020

- Developed "Mental Wealth", a Facebook App that addresses user mental health issues from COVID-19
- Collaborating with American Psychiatric Association to develop a medically accurate & effective app

NORTHSIDE HOSPITAL

Atlanta, Georgia

Anesthesia Technician

Summer 2018, 2019

- Stocked & organized anesthesia supply carts & equipment for 17 General Surgery Operating Rooms
- Shadowed surgeons and anesthesiologist including orthopedic, brain, & gastric surgeries

EMORY UNIVERSITY WINSHIP CANCER INSTITUTE

Atlanta, Georgia

Cancer Epidemiology Research Intern

Summer 2017

- Researched socioeconomic factors & cancer survival rates using Surveillance, Epidemiology and End Results data
- Provided data for the Lymphoma Epidemiology of Outcomes group to reallocate healthcare resources across Atlanta

LEADERSHIP & EXTRA-CURRICULAR

GEORGIA TECH DEPARTMENT OF HOUSING

Georgia Tech

Peer Leader Resident Assistant

2/19 - present

- Trained, certified & respond to student mental health, drug & alcohol, suicide, & security situations
- Mentor 300+ freshmen, provide social & academic advice, resolve roommate conflicts, organize social events

CONSULTORIO MEDICO HISPANO

Chamblee, Georgia

Clinical Assistant

8/15 - present

- Spanish-speaking employee at government-subsidized clinic for economically disadvantaged Latino patients
- See 1000+ patients, check vital signs, conduct glucose analysis, manage patient charts, assist physicians

GEORGIA TECH STUDENT GOVERNMENT ASSOCIATION

Georgia Tech

Faculty-Student Development Committee Chair

8/18 - 5/20

- Sole Undergraduate Representative on selection committee for Vice Provost for Advocacy & Conflict Resolution
- Created "Illuminate Tech" & "SGA Coffee Takeover", semesterly faculty-student networking events 500+ participants

RESEARCH SKILLS/RELEVANT COURSES

- Cell culturing, passaging, conditioning; media preparation
- Genetics and Lab
- Western blots, bicinchoninic acid assays
- Organic Chemistry I & II and Synthesis Lab
- Mouse brain sectioning, immunohisto(cyto)chemistry
- Biostatistics
- Quantitative immunofluorescent microscopy
- Biochemistry
- Proficient: MATLAB, Java, Python, R, LinuxOS
- Cell & Molecular Biology

AWARDS, SKILLS, INTERESTS

- Keynote Speaker/Rapper, Institute-wide Undergraduate Convocation; 800,000+ views (2019)
- "Our Beloved Community" Award, outstanding Resident Assistant selected by Georgia Tech Housing (2020)
- Captain soccer intramural team, lead singer of rock band *Three Toad Stack*