

# 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**

11/18 - present

- Received President Undergraduate Research Award, modulate neuroimmune activity in Alzheimer's Disease (2021)
- Perform cell culture with macrophage & primary neurons; condition with inflammatory factors to induce response
- Conduct immunohisto/cytochemistry to characterize microglial response in cell cultures & *in vivo* mouse models
- Use fluorescent microscopy/image processing to quantify cell marker expression in cell cultures & tissue samples
- Build computational pipelines to quantify microglia morphology in 3D, correct illumination aberrations in histology

### **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

### **GOLD SCHOLAR AMBASSADORS**

Georgia Tech

#### **Committee Chair**

5/20 - present

- Lead team of 9 scholars to advocate for scholarship program changes with the Office of Special Scholarships
- Plan annual retreat for 50+ scholars; execute recruitment weekend for 200+ scholars & candidates;

### **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, mouse neuron dissections, tissue lysing
- Western blots, bicinchoninic acid assays
- Immunohisto/cytochemistry, tissue sectioning
- Quantitative immunofluorescent microscopy
- Proficient: MATLAB, ImageJ/FIJI, Java, Python, R
- Genetics and Lab
- Organic Chemistry I & II and Synthesis Lab
- Biostatistics
- Biochemistry I & II
- 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*