

## EDUCATION

### VANDERBILT UNIVERSITY, Nashville, TN.

Expected Graduation May 2019

- **(Honors)** Bachelor of Science in Biomedical Engineering (BME)  
Honors - includes research work and graduate level classes

## PROFESSIONAL EXPERIENCES

### *Undergraduate Library Assistant (August 2018-Present)*

*Vanderbilt University, Eskind Library, Nashville, TN*

- Assist patrons in navigating Eskind Biomedical Research Library and online literature resources

### *Undergraduate Student Researcher (January 2016- Present)*

*Vanderbilt University, Nashville, TN*

- Dr. Scott Guelcher's Biomaterials and Tissue Engineering Laboratory
- Worked to develop injectable scaffolds that promote bone growth. Ran degradation experiments, created polymer scaffolds, and examined capture slides of samples. Scaffolds were tested in mice and canines.
- Conducted an independent research project on the delivery of osteo-protective NSAID diflunisal from ROS-responsive microparticles and nanoparticles in vitro, under the mentorship of Dr. Guelcher and Ph.D. student, Thomas Spoonmore.

### *Undergraduate Summer Researcher (June 2018- August 2018)*

*Stanford University, Stanford, CA*

- Working under Frank M. Longo, MD, Ph.D. in Alzheimer's and other neurological diseases
- Behavioral test analysis of PS19 mice (AD model)
- Studying the effect of small molecule neurotrophin drug effect on Tau oligomer mechanism in AD models

### *Research & Development Biotech Summer Intern (May 2017- August 2017)*

*Diazyme Laboratories, Poway, CA*

- Validated parameters for Diazyme's Glycated Serum Protein Assay
- Gained experience on various chemical analyzers including Modular P800, Ortho-Clinical Diagnostics VITROS® 4600 Chemistry System and VITROS® 5600 Integrated System
- Attended and represented Diazyme Laboratories at the American Association for Clinical Chemistry (AACC) 69<sup>th</sup> Annual Scientific Meeting & Clinical Lab Expo in San Diego

### *Project Manager Summer Intern (May 2016- August 2016)*

*UCSD Dept of Medicine/Bioinformatics, La Jolla, CA*

- iDash 2016 Summer Internship
- Researching and developing software applications for bioinformatics/medical data analysis
- Worked with Python and bioinformatics related python libraries on Mac OSX with JetBrains PyCharm

### *CollegeVine SAT tutor and Student Mentor (October 2016- January 2018)*

- Online tutoring and mentoring high school students

### *Lab Assistant (Aug 2015-December 2015)*

*Vanderbilt University, Nashville, TN*

- Perform various laboratory procedures and practiced sterile lab techniques
- Focused on nano-beads and low resource diagnostics. Worked with microscopes, centrifuges, heating plates, 3D printers, and PCR machines.

## CONFERENCES

- *Society of Women Engineers (SWE) National Annual Conference (2015)* *Nashville, TN*
- *American Association for Clinical Chemistry (AACC) Annual Scientific Meeting & Clinical Lab Expo (2017)* *San Diego, CA*
- *Biomedical Engineering Society (BMES) Annual Meeting - Presenter (2018)* *Atlanta, GA*

#### AWARDS AND RECOGNITIONS

- *Finalist for the John T. & Lizen Allen McGill Award (2019)*
- *Finalist for the Imani Award: The Rev. James Lawson Award for Campus and Community Leadership (2019)*

#### LEADERSHIP / EXTRACURRICULAR ACHIEVEMENTS

***US delegate for KSEA Young Generation Forum 2019 (Summer 2019)*** ***Seoul, S. Korea***

- Selected by the Korean American Scientists and Engineers Association as a delegate to represent the United States at the Forum
- Korean Federation of Science and Technology Societies (KOFST) and the Korean-American Scientists and Engineers Association (KSEA) hosts 80 scientists and engineers from United States, Britain, Canada, Japan, China, Russia, and Korea.

***Elected Student Council Representative for IES Abroad (Spring 2018)*** ***Madrid, Spain***

***President and Founder, Project Heal Medical Missions (Fall 2016 – present)*** ***Vanderbilt University, Nashville, TN***

- Vanderbilt student-led medical mission organization
- Leading committee meetings for local and global outreach
- Communicating with a faculty advisor, medical missionaries and committee chairs

***BME Pulse Editor and Writer (Fall 2016 -Spring 2017)*** ***Vanderbilt University, Nashville, TN***

- Undergraduate newsletter for Vanderbilt University's Biomedical Engineering department
- Authoring and reviewing newsletter entries, designing overall graphics and visual formatting, and interviewing faculty members/organizations for articles.

***Small Group Leader (Spring 2017 - Fall 2018)*** ***Vanderbilt University, Nashville, TN***

- Vanderbilt InterVarsity Chapter, Asian American Christian Fellowship
- Planning and leading small groups
- Facilitating and promoting group discussions and accountability groups

***Praise Leader Brentwood, Tennessee (Fall 2015 – Spring 2017)*** ***Living Word Community Church, Nashville, TN***

- Vocalist for Living Word Community Church Praise Team
- Leading worship time with other various musicians

#### COMMUNITY SERVICES

***Project Heal Medical Mission Trip (Summer 2018)*** ***Valladolid, Mexico***

- Partnership with Chosen International Medical Assistance

***Nashville Rescue Mission (Fall 2018 - present)*** ***Nashville, TN***

- Providing basic health screening and classes to the homeless population of Nashville
- A partnership with Project Heal

***Nashville International Center for Empowerment (Fall 2018 - present)*** ***Nashville, TN***

- Providing basic health screening and classes to the immigrant and refugee population of Nashville
- A partnership with Project Heal

***Project Heal Medical Mission Trip (Summer 2017)*** ***Seoul, South Korea***

- Volunteered with Nanum church and Seoul Medical Service Foundation
- Society of Women Engineers 2015 National Annual Conference with Vanderbilt Student Volunteers for Science

***Harmonies for the Elderly (Spring 2017)*** ***Nashville, TN***

- Practicing and performing music for nursing and Alzheimer's homes