

Kendra Washington

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Education

- The Georgia Institute of Technology, Atlanta, Georgia** *August 2017- May 2021 (Expected)*
- Candidate for Bachelor of Science in Biomedical Engineering, minoring in Computer Science
 - Stamps President's Scholar, Honors Program, GPA 3.93
- Nova High School, Davie, Florida** *August 2012-June 2016*

Research

- Takayama Lab, Georgia Tech** *August 2019-Present*
- Developing Lung-on-a-chip systems to improve in vitro analyses of ARDS and IRDS
 - Writing protocols for and maintaining lung cell co-cultures, fabricating microfluidic devices
- Living Dynamical Systems Lab, Georgia Tech** *August 2018-May 2019*
- Designed experiments to investigate the eye blinking mechanisms of mudskippers that have said ability
 - Collaborated to develop micro-controlled actuator to standardize eye depression for euthanized specimens to test passive eye elevation hypothesis and digitized blinking mechanism using XMA Lab

Projects

- Designing Parkinson's Tremor Tracker Prototype, Atlanta, GA** *August 2018-December 2018*
- Integrated accelerometer and user input in Arduino program to collect data to determine the frequency and intensity of tremors and patient condition

Experience

- Undergraduate Teaching Assistant for Introductory Physics II** *January 2020-Present*
- Facilitating a weekly lab of 30 students who conduct Electricity and Magnetism based experiments
- Summer Research Intern at Johns Hopkins University's PULSE Lab, Baltimore, MD** *June-July 2019*
- Investigated the effect of raw ultrasound data downsampling on small cyst segmentation with fully convolutional neural networks
 - Presented research at the Leadership Alliance National Symposium 2019 and BMES 2019 as poster
- Internship at The Museum of Discovery and Science, Fort Lauderdale, FL** *November 2014-July 2016*
- Led Graphics Development on team for Ecoscapes Exhibit Interactive Tablet App using Photoshop
 - Collected User Feedback to document bugs and determine if patron and patron family experience

Skills

Language: Portuguese (Intermediate)

Concepts: Differential Equations, Engineering Analysis of Physiological Systems and Material Properties

Programming and Programs: MATLAB, Java, C, XMA Lab, SolidWorks

Leadership

- Stamps Scholar National Convention 2019, Service Challenge Committee Head** *2018-2019*
- Coordinating environmental service opportunity with community partner for over 90 Scholars
- GT Circle K, Secretary-Treasurer** *2018-2019*
- Volunteering with Boys and Girls Club, Manages club records and funds
- Emerging Leaders, Member** *2017-2018*
- One of thirty freshmen chosen to lead and plan service events in the GT and Atlanta community
- Nova High School Key Club, President** *2015-2016*
- Member since 2012, Volunteered with Eliminate Project, Horses for Handicapped, Caps of Love