

# Kendra Washington

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## Education

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**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

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**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

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**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

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**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

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**Language:** Portuguese (Intermediate)  
**Concepts:** Differential Equations, Engineering Analysis of Physiological Systems and Material Properties  
**Programming and Programs:** MATLAB, Java, C, XMA Lab

## Leadership

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**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