

## EDUCATION

### Duke University

December 2016 • Durham, NC  
M.S. in Biomedical Engineering  
GPA: 3.83/4.00

### Washington University in St. Louis

May 2015 • St. Louis, MO  
B.A. in Neuroscience  
Minor in Music  
Alpha Delta Phi, Eliot Chapter  
College Honors, Dean's List  
GPA: 3.60/4.00

### University College London

January – June 2014 • London, UK  
Affiliate Student, Biosciences Division  
Grade: Upper Second (2:1)

## SKILLS

### Development

Python  
MATLAB  
Java  
HTML / CSS  
Flask  
Arduino / Photon

### Lab Techniques

Oscilloscope and multimeter use  
Breadboard / circuit construction

## COURSEWORK / PROJECTS

### THINC 2016 Hackathon: Third Place

- + Built a web application using Flask and Node.js to reduce emergency room overcrowding

### Introduction to Medical Instrumentation

- + Designed and built an Arduino-controlled, Fitbit-like activity monitor

### Invention to Application

- + Developed a business plan for a medical software startup lead by Duke hospital faculty

### Signal Processing & Applied Mathematics

- + Created a sign language alphabet to text transcription program in MATLAB

### Human-Robot Interaction

- + Wrote MATLAB software interpreting EEG signals to control an external device

## EXPERIENCE

### TECHSTARS BOSTON. *Data Science & Tech Associate*

January 2017 – Present • Boston, MA

- + Performing data analytics and software development projects for 13 early-stage startups in the Techstars Boston class

### MIGUEL NICOLELIS NEURAL ENGINEERING LAB. *Research Assistant*

September 2015 – December 2016 • Durham, NC

- + Analyzed kinematic and neural data in a study of locomotion
- + Created predictive models of leg motion from neural activity using MATLAB for potential application to brain-machine interfaces

### WARREN GRILL NEURAL ENGINEERING LAB. *Research Assistant*

March 2016 – September 2016 • Durham, NC

- + Developed a suite of tools in Python for academic article reference, and organization
- + Built front- and back-end components using SQLAlchemy and PyQt5 for database and GUI design
- + Integrated functionality of existing article providers and managers via API calls

### DUKE NEUROSCIENCE CAMP. *Instructor*

July 2016 • Durham, NC

- + Prepared lectures and led discussions on neuroscience, neuroethics, and philosophy
- + Mentored and organized science-based activities for 28 high school students

### WASHU C-TRAIN RESEARCH GROUP. *Research Assistant*

June – August 2015 • St. Louis, MO

- + Wrote custom plugins in Java for ImageJ software to automate ultrasound image processing
- + Prepared and organized organic tissue samples

### THOROUGHMAN BIOMEDICAL ENGINEERING LAB. *Research Assistant*

September 2014 – January 2015 • St. Louis, MO

- + Investigated the effect of observation of tasks on motor learning through controlled human studies
- + Analyzed motor manipulation data from human reaching tasks using MATLAB
- + Collaborated with Principal Investigator and graduate students as sole undergraduate researcher

### WUSAUCE SALSA DANCE TEAM. *Training Chair, Choreographer*

September 2013 – May 2015 • St. Louis, MO

- + Created and led weekly public lessons to Washington University students
- + Trained new team members in multiple dance styles for public performance and international competition
- + Choreographed and taught new team routines