# Tiwalayo (tee – wah) Eisape

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## Education

### Boston College, Morrissey College of Arts and Sciences

**Math B.S & Computer Science B.S, Philosophy Minor**

Major GPA: 3.938/4.0 | Graduation date: May 2019

- Honor's thesis: *Hyperaligned Deep Convolutional Autoencoding for Dimensionality Reduction in fMRI Data*
    - In the process of developing a tool to mine fMRI data for clustered representations to help decrease noise and boost signal. Addressing the problem of severely limited and high feature data in MVPA

## Research

### The Language Learning Lab at Boston College

***Research Assistant**,* August, 2017– present (~30hr/wk)

- Engineer classifier algorithms to take a unique approach to Native Language Identification. Delve deeply into classifiers such as Neural Networks and Support Vector Machines to achieve state of the art accuracy
- Utilize tensorFlow, scikit-learn, and Google's SyntaxNet among other packages to optimize all parts of the natural language processing pipeline, gaining professional level experience with the practical application of neural networks
- Present research across the country in both poster and oral presentation format. Conferences include *The Annual Meeting of the Cognitive Science Society 2018* and *ACC Meeting of the Minds 2018*

### Ronald E. McNair Scholars Program, Federal Trio Programs

***Scholarship Recipient**,* September, 2015 – present

- Project: The Investigation of Fibonacci Retracement in the Foreign Exchange Market using Google Deep Dream. This research was presented at the 13th annual Ronald E. McNair Research Symposium and was later nominated for a Goldwater Scholarship

## Work Experience

**Computer Science Department, Boston College**

***Teaching Assistant**,* January, 2018 – present (~10hr/wk)

- Contribute to teaching undergraduate and graduate students topics in computer science in a variety of courses: Computer Science I, Data Mining, and Computational Models of Cognition (Graduate course)
- Hold 5 office hours a week in addition to leading a discussion section (~25 students, for CS1 sections) and grading problem sets

**Advancement Information Systems, Boston College**

***Developer/Analyst**,* August, 2016 - August 2017

- Developed web applications ranging from in-office data management to applications for the entire Boston College community and beyond. Worked with SQL, HTML, CSS, JavaScript, Oracle APEX, and confidential databases

**Information Technology Services, Boston College**

***Eagle Technician**,* August, 2017 – present (8hrs/wk)

- Provide technical support in Boston College's O'Neill library, a research facility servicing BC's extended campus
- Attend monthly workshops and tutorials to stay current on operating systems and our suite of key applications (including the Microsoft Office applications, Boot Camp, and Virtual Box among others)

## Diversity Engagement & Volunteer Work

**PULSE Program for Service Learning**

***Council Member***, August, 2015 – present (~7hr/wk)

- Serve as a teaching assistant and resource person for one of Boston's premier service learning courses, holding 3 offices hours/week, and coordinating bi-monthly meetings with an advising group of 30+ students who serve at different community service partners around Boston

**Residential Life, Boston College**

***Resident Assistant***, January, 2018 – present (~20hr/wk)

- Work as an RA on Boston College's Multicultural Learning Experience floor where I am responsible for the well-being of 22 first-year students. Coordinate weekly workshops and seminars on diversity inclusion and cross-cultural understanding in addition to all the responsibilities of a typical RA

## Leadership

**Boston College Varsity Men's Rowing**

***Captain***, August, 2015 – May 2017

- Served as a captain on Boston College's Men's rowing team and was awarded the *Outstanding Novice Oarsman Award*, for being dedicated to 5 am practices 6 days / week as well as additional conditioning for a combined total of ~40hrs/wk.
- Competed at nation-wide regattas and achieved 6$^{th}$ place at the 2016 ACRA National Championships

Programming Languages: Python (4yrs), JavaScript (3yrs), C (2yrs), SQL (2yrs), R, Java, HTML, CSS

Packages of Familiarity: NLTK, tensorFlow, Pyro, pandas, scikit-learn

Languages: Russian: Professional Working proficiency; Spanish: Limited working proficiency

Courses of Interest: Artificial Intelligence, Computation Models of Cognition (Teaching Assistant), Deep Learning (Coursera), Data Mining (Teaching Assistant), Computability and Complexity