# BRIANNA RICHARDSON

MACHINE LEARNING & DATA SCIENCE RESEARCHER

## CONTACT


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https://bricha2.github.io


## HONORS

**Generation Next Scholar** (2020-2022)

**Bridge to Doctorate Fellow** (2018-2020)

**Marc U*Star Scholar** (2016-2018)

**Meyerhoff Scholar** (2014-2018)

## ORGANIZATIONS

**Alpha Epsilon Lambda Honor Society** (2020)

**National Society of Black Engineers** (2018)

**Black Graduate Student Organization** (2018), **E-board Member: Historian**

## SKILLS

**Machine Learning:** Data Visualization, Predictive Analysis, Clustering & Classification, Data analytics, Web Scraping, Data Mining, Linear/Logistic Regression, Neural Networks, Parameter optimization

**Programming**: Python, R, MATLAB, Java, SQL

**Libraries**: NumPy, SciPy, Scitkit-learn, TensorFlow, Keras, PyTorch, Pandas, Matplotlib, Seaborn, NLTK

## EDUCATION

### University of Florida

**2018 – Current**

M.S., Computer Science (2020), **GPA: 3.7**

Ph.D., Computer Science (Exp. 2023)

### University of Maryland, Baltimore County

**2014 – 2018**

B.S., Computer Science

B.S., Bioinformatics

**GPA: 3.6**

## RELEVANT EXPERIENCE

### IBM

**Summer 2021 & Summer 2022**

Utilized novel techniques from robust statistics to create a new methodology for adding a dimension of **explainability** to **black-box models**.

Tested novel technique on a **diverse selection of** use cases including **datasets and model types**.

### University of Florida

**2018 - Current**

Written several works about the use of **Machine Learning across industries**, including policing, healthcare, finances, transportation, etc. Developed an **expertise in algorithmic bias and fairness** mitigation technologies.

Utilized **NLP** to build a **conversational AI agent** for shopping & built an Android mobile app as a multi-modal interface.

Studied the needs of ML practitioners, computer science students, and the general populace to understand **user needs** and apply them to different ML technologies.

### Spotify

**Summer 2020**

Collaborated across the company as an algorithmic bias **consultant**, assisting teams with fairness concerns in their **differing applications of machine learning** & Exposed several teams and employees to new and emerging fairness AI technologies and methods for addressing algorithmic bias.

Conducted a user study measuring the usability and propensity for insight of fairness AI technologies in the workplace & Utilized findings to conduct a complete fairness assessment on a new company-wide machine learning effort.