

# Meredith Brown

407 Towerview Dr, Durham, NC, 27705 | 919-819-7493 | meredith.brown@duke.edu

## EDUCATION

**Duke University**, Durham, NC GPA: 3.9 Expected May 2022

Bachelor of Science in Computer Science, Bachelor of Science in Statistical Science, Minor in Mathematics

Relevant Coursework: Multivariable Calculus, Data Structures & Algorithms, Intro to Data Science,

Computer Architecture, Regression Analysis, Probability, Bayesian Statistics, Database Systems

Honors: Dean's List (Fall 2018), Dean's List with Distinction (Fall 2019)

**Broughton High School**, Raleigh, NC GPA: 4.0 Graduated June 2018

Honors: National Merit Scholarship, Dartmouth Book Award, North Carolina Governor's School (Natural Science)

## TECHNICAL SKILLS

Languages: Proficient - Java, Python, R; Intermediate - HTML, CSS, Javascript, C, Assembly

Technologies: React, Microsoft Applications, Google Platforms, Tensorflow, Eclipse, Git, Adobe XD

## WORK EXPERIENCE

**Undergraduate Teaching Assistant**, Duke University Statistics Department August 2019 – present

Class: Statistics 199, Introduction to Data Science

- Assist in weekly in-class activities while hosting weekly office hours for students
- Grade homework and midterm assessments, and provide in-depth feedback on all assignments

**Data+ Interdisciplinary Research**, *Data Scientist*, Duke University Summer 2019

- Designed predictive models of unplanned hospital admissions for use in the Duke Health System
- Tested methods for quantifying and evaluating systematic bias in machine learning models

**YMCA Camp Cheerio**, *Counselor*, Glade Valley, NC Summer 2018

- Collaborated with colleagues to assign aquatics responsibilities from administrative to first aid
- Oversaw cabin life and activities for girls of ages seven to fifteen

## TECHNICAL PROJECTS

**Bass Connections Program**, *Software Engineer*, Duke University August 2019 – present

- Creating and implementing a React web application for use with a student-created laparoscope prototype
- Identified, analyzed, and recommended leading industry web application technologies in response to feedback from clinical stakeholders

**Duke University Union Development Operations**, *Data Analyst*, Duke University August 2018 – present

- Working with three engineers to deploy a query-based web application for use at campus programming
- Analyzed programming attendance using visual modeling and website development

**+Data Science Machine Learning Project**, *Software Engineer*, Duke University October 2018 – April 2019

- Collaborated with a team of engineers to develop convolutional neural networks to diagnose skin melanomas
- Developed techniques for enhancing communication of complex scientific topics to an audience

## LEADERSHIP EXPERIENCE

**Duke SPIRE Fellows Student Advisory Board**, *Board Member*, Duke University September 2019 – present

- Organize programming centered around the need to increase inclusion, retention and success of individuals who are typically underrepresented in STEM studies
- Establish mentor relationships for SPIRE fellows with Duke faculty who exemplify representation in STEM fields

**Duke University Admissions Ambassador**, *Tour Guide*, Duke University November 2018 – present

- Provide walking information tours of the Duke University West campus
- Volunteer for panels and discussions with prospective students about campus opportunities and initiatives

## VOLUNTEER EXPERIENCE

**Inter-Faith Food Shuttle**, *Volunteer*, Raleigh, NC August 2016 – June 2018

- Worked in a community garden in an area designated as a food desert
- Organized the Garden Gallop 5k race, held in 2017 and 2018, to raise money for the non-profit's program promoting community gardening and gardening education in low-income schools