

# Brandon McIntyre

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## Education

### Bachelor of Science, Data Science

Spring 2022

Michigan State University | College of Natural Science | East Lansing, MI

- Minor: Cognitive Science
- GPA: 3.90; Dean's List (all eligible semesters); Charles Drew Science Scholar

### Associate of Science

August 2015 – May 2018

Jackson College | Jackson, MI

- GPA: 3.88; Dean's List (all eligible semesters)

## Experience

### Learning Assistant, CMSE 202

January 2020 - Present

MSU Computational, Mathematics, Science, and Engineering (CMSE) Department | East Lansing, MI

- Monitored 40+ students during class to answer any students' questions and promote positive learning environment.
- Met with 40+ students outside of class in weekly office hours to assist in course work and techniques used in class.
- Created assignments for 200+ students that introduced the Command Line Interface and use of GitHub tools.
- Analyzed student surveys and experience to modify course work to increase student comprehension of topics.

### Summer Undergraduate Researcher

May 2019 – August 2019

MSU Physics and Astronomy Department | East Lansing, MI

- Simulated Type IIP Supernovae to visualize the effect starting conditions have on the light-curve of the Supernovae.
- Utilized MSU's Computer Cluster through the command line interface to edit, compile, and run programs remotely.
- Presented research poster at MSU's Mid-SURE informing students and faculty of all disciplines about my research.

### Electrical Engineering Intern

June 2017 – January 2019

Orion Engineering | Jackson, MI

- Assisted with plant wide studies of power distribution, arc flash mitigation, and short circuit studies to improve safety and cost-effectiveness of businesses and factories.
- Participated in 10+ fieldwork days to collect measurements on devices and structures, as well as attend meetings with clients to go over proposed plans and collect feedback.
- Utilized Excel and ETAP for testing safety/efficiency of power networks to determine suggestions for client proposals.

## Technical Skills

### Programming Languages and Tools

- Python, R, C++, Bash, Anaconda, GitHub, Excel, ETAP

### Concepts

- Data Visualization, Data Modeling, Data Processing, Data Structures, Statistical Analysis, Parallel Processing, Basic Machine Learning Models, Basic Artificial Intelligence Models, Time Complexity Analysis

## Activities

### Design for America, Director of Board | MSU | East Lansing, MI

August 2018-Present

- Designed Solutions for community problems through Human-Centered Design Process to ensure needs were met.

### Michigan State Observatory Research Program, Expert Observer | MSU | East Lansing, MI

July 2019 – December 2019

- Operated, and taught other students' operation of, Telescope to collect data for Astronomy Department Researchers.

### Heritage Center, Student Volunteer | Jackson College | Jackson, MI

October 2016 – August 2018

- Helped create film "Answering The Call" that won awards from Governor's Office and Michigan Historical Society.
- Volunteered over 250+ Hours working with community members and other students.