

## MICHAEL DAUGHERTY

[Portfolio](#) | [GitHub](#) | 330-720-5486 | [m.j.daugherty0@gmail.com](mailto:m.j.daugherty0@gmail.com)

**MISSION:** To secure a position which allows me to use a combination of scientific, computational and interpersonal skills to solve complicated problems and improve understanding

### SKILLS

Communication	Statistics	scikit-learn
Data analysis	Linear algebra	NumPy
Data visualization	Python	Linux
Machine learning	R	Apache Spark
Natural language processing	SQL	AWS
Web scraping	pandas	TensorFlow/keras

### EXPERIENCE

#### **GENERAL ASSEMBLY, DATA SCIENCE IMMERSIVE STUDENT**

Washington, D.C., Dec. 2019 - Mar. 2020

Through 480 hours of instruction, applied an array of statistical techniques, supervised and unsupervised machine learning and other tools to problems involving large datasets, including:

- **OPTIMIZING EVACUATION ROUTES DURING A NATURAL DISASTER:** Worked with two teammates to scrape thousands of posts from Twitter feeds across the state of Texas and used the information they contained to produce a map of road closures during Hurricane Harvey
- **IMPROVING ASTRONOMY OUTREACH THROUGH NATURAL LANGUAGE PROCESSING:** Analyzed posts from an astronomy-themed and a space-themed message board to quantify the difference between the two concepts and use this to increase public interest in astronomy and the sciences in general
- **PREDICTING GALACTIC DISTANCES WITH MACHINE LEARNING:** Created a model to enable amateur astronomers to estimate distances to nearby galaxies by measuring their apparent brightness

#### **TARGET**

**SALES FLOOR TEAM MEMBER,** Store 1439, Tucson, AZ, Nov. 2017 – May 2019

- Performed transactions on cash registers
- Assisted guests on sales floor
- Reset shelves and merchandise displays

**FLOW TEAM MEMBER,** Store 1463, Boardman, OH, Nov. 2016 – Oct. 2017

- Unloaded product shipments
- Managed inventory
- Kept sales floor stocked and organized

### EDUCATION

**DATA SCIENCE IMMERSIVE,** General Assembly, Washington, D.C., Dec. 2019 - Mar. 2020

**UNIVERSITY OF ARIZONA,** 2010 - 2013

Completed courses in astronomy, physics, advanced mathematics and scientific computing

### OTHER ACTIVITIES

**TELESCOPE OPERATOR,** Flandrau Observatory, Tucson, AZ, Mar. 2012

Used 20" telescope and computerized guidance system to show galaxies and other deep-sky objects to interested members of the public