

MADISON HOWARD

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EDUCATION

Texas Tech University

Junior Undergraduate

Major in Professional Physics and Mathematics

August 2018 - Present

Cumulative GPA: 3.955

EMPLOYMENT

STEM Peer Tutor

- *TECHniques Center, Texas Tech University*

June 2020 - Present

- Provided course-specific tutoring of math, physics and core course to undergraduate college students with learning disabilities in a peer-to-peer format

Texas Tech University Student Housing

- *Social Justice Advocate*

October 2018 - June 2020

- Provided leadership and advocacy in promoting advancement and development of diversity, multiculturalism, social identity, and social justice through training, community development, programming educational interactions, and educational dialogues within assigned complexes.
- In charge of creating and executing presentations.

RESEARCH EXPERIENCE

Advanced Particle Detector Laboratory, Texas Tech University

- *Mentor: Nural Akchurin, PhD*

June 2020 - Present

- Created a secure network of sensors and raspberry pi's to allow for the transfer of data in the correct pipeline to a server using the **MQTT** framework and the **MySQL** database to create a weather station dashboard for the APD Lab.

Department of Physics and Astronomy, Texas Tech University

- *Mentor: Joseph Romano, PhD*

July 2019 - Present

- Conducted statistical and image analysis on data from the Green Bank Observatory using **Python** on **Linux** in conjunction with the Pulsar Search Collaboratory and the TTU Physics Department

AWARDS

- The Bucy Undergraduate Scholarship in Physics (Spring 2020)
- Texas Tech University Undergraduate Dean's List (Spring 2020)
- Texas Tech University Undergraduate President's List (Fall 2018- Fall 2019)
- Henry C. Thomas Scholarship Award in Physics (Spring 2019)
- Raiders Who Rock: Community Service and Leadership Award (2019)
- Vargas Management Ready, Set, Teach Scholarship Recipient (2018)

STUDENT ORGANIZATIONS AND INVOLVEMENT

- Secretary, TTU *Women in Physics*
- The Society of Physics Students
- The American Physical Society
- Association for Women in Mathematics
- STEM Undergraduate Colloquium Organizing Committee
- McLane Teammates Reading Group Fall 2019 - Fall 2020