

# MADISON HOWARD

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## EDUCATION

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### **Texas Tech University**

Junior Undergraduate

Major in Professional Physics and Mathematics

*August 2018 - Present*

Cumulative GPA: 4.0

## EMPLOYMENT

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### **Texas Tech University Student Housing**

- *Social Justice Advocate*

*October 2018 - Present*

- Provide 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.

### **Texas Tech University Transition and Engagement**

- *Red Raider Orientation Leader*

*December 2018 - August 2019*

- Worked with a professional team of over 60 members and interacted with 300 plus students and parents each work day
- Served as a peer mentor to incoming students

### **TexPREP 2019**

- *Course Instructor*

*May 2019 - July 2019*

- Created and implemented lessons on STEM subjects for middle and high school students
- Encouraged and monitored the progress of individual students to ensure they would reach their full academic potential

## RESEARCH EXPERIENCE

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### **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

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- Texas Tech University Undergraduate President's List (Fall 2018- Spring 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)
- The Bucy Undergraduate Scholarship in Physics (Spring 2020)

## STUDENT ORGANIZATIONS AND INVOLVEMENT

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- 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 - Spring 2020