

# Noah Anderson

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## Education

### **Truman State University**

Dates Attended: Fall 2017 - Present  
Expected Graduation Date: May 2021  
Major: Bachelors of Science in Physics  
GPA: 3.81  
Physics GPA: 3.92

## Research Experience

### **Truman State McNair Program Summer Research Internship (Summer 2019)**

I worked with Dr. Tim Wisner to draft a research proposal on the longevity of dark matter orbits in our Solar System. We then carried out the 10-week long research during the summer. My topic was on the plausibility of dark matter in the solar system. Assuming an initial population of dark matter in the solar system we wanted to see if any would remain today. In order to investigate the longevity of dark matter in Solar orbits, we combined analytic results with numerical simulations. This experience taught me many technical skills necessary for astrophysics and gave me a good basis for astrophysics in general. On top of the technical skills, I also learned how to work on a team to accomplish similar goals and grew very close to my research partner and my mentor.

### **Truman State McNair Program Summer Research Internship (Summer 2020)**

As a follow up to our summer 2019 research, Dr. Wisner and I studied mechanisms for how dark matter could be trapped by the sun. During this project I expanded upon my knowledge of astrophysics and worked to develop mathematical models of astrophysical systems.

### **Observational Astronomy Research (Spring 2020)**

I work with the American Association of Variable Star Observers on a volunteer basis. What I do is use their free software to classify variable stars by their periods using light curve data provided by the AAVSO. AAVSO allows for public submissions of data analysis. I do this so that I can contribute to the field of astronomy while also learning more about observational astronomy.

## Conferences

### **McNair Heartland Conference (Fall 2019)**

I presented my summer research on Solar bound dark matter in front of a multidisciplinary audience.

### **Truman State Summer Research Symposium (Fall 2019)**

I presented my summer research on Solar bound dark matter in front of my colleagues in physics, but it was open to anyone. (is it relevant to put how many people attended these talks?)

**American Physical Society April Meeting (2020)**

This was canceled, but should I put it since I did get an accepted abstract?

## Awards and Honors

**Ronald E. McNair Postbaccalaureate Achievement Program (2018-Present)**

**Sigma Pi Sigma (National Physics Honors Fraternity)**

**Presidents List (4.0 semester GPA): Fall 2018, Fall 2019, Spring 2020**

**Vice Presidents List (GPA > 3.5): Fall 2017, Spring 2019**

## Extracurricular Activities

**Truman State Society of Physics Students (Fall 2017 - Present)**

**Alpha Phi Omega (Fall 2018 - Present)**

- Co-Ed Service Fraternity
- Requirements
  - Complete at least 25 hours of community service a semester
  - Attend weekly meetings
  - Fulfill ~10 hours of friendship and leadership building activities a semester
  - Positions Held
    - Red Cross Co-Chair
      - I was tasked with recruiting and organizing volunteers to run semesterly blood drives
      - My second responsibility was to recruit people to join the Be the Match registry.

**Progressive Student Alliance (PSA)**

- Political activist group rooted in spreading the ideas of progressive politics
- Positions held
  - President
    - Contact person for the organization
    - Responsible for paperwork pertaining to the organization
    - Facilitates meetings

**Truman State Football Staff**

I work as a film technician where I would manipulate the film using computer

software in order to make it easier to analyze for the coaching staff.