

PARLEY KOSTER

ASTROPHYSICS,
MATHEMATICS

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Fayetteville, Arkansas

PROFILE

A strong passion for astronomy and astrophysics fuels a dedication to advancing humanity's understanding of the universe through science. Curiosity and a desire to push the boundaries of knowledge drive an eagerness to contribute to research addressing fundamental questions about the cosmos. Participation in an REU program offers the opportunity to develop skills, collaborate with experts, and engage in meaningful work that supports progress and innovation in the field.

SKILLS

- Critical and Analytical Thinking
- Teamwork
- Effective Communication
- Passionate for Learning
- Dedication and Persistence
- Time Management
- Academically Inclined
- Attentive to Detail

RESEARCH EXPERIENCE

November 2024 - PRESENT

University of Arkansas

Undergraduate Thesis Research

- Training an Artificial Intelligence model to calculate pitch angles of spiral galaxies from inputted image files
 - Pitch angle calculations to be later used in study of gravitational waves and galactic formation and behavior
- Studying and annotating spiral galaxy image files to be used in the training process
- Working collectively with other undergraduate and graduate students to efficiently research

WORK EXPERIENCE

2020-2024

Bentonville, Arkansas

Mechanic

- Self-employed **Mobile Mechanic**; May 2022 - Present
 - Manage customer outreach and make vehicular repairs in a timely and professional manner
- Take 5 Oil Change; May 2024 - September 2024
 - **Shop Manager and Assistant Manager**
 - Emphasized customer relations, shop efficiency, and organization
- Flying Ace Mobile Boat and RV; April 2021 - October 2021
 - **Apprentice Mechanic**
 - Conducted repairs and maintenance on boats, RV's, and diesel trucks to sustain longevity

EDUCATION

Expected Graduation May 2026

UNIVERSITY OF ARKANSAS

- Bachelor of Science in Astrophysics
 - Minor in Mathematics
- Current GPA: 3.7
- Honors Student

CAMPUS INVOLVEMENT

- Co-Founder and Treasurer of Piston Hogs; UARK RSO for automotive enthusiasts
 - Managing meeting times, meeting structure and composition, and student involvement
 - Conduct meetings efficiently
 - Manage organization's funds, expenditures, and fund raisers
- Teaching Assistant and Grader in the UARK physics department
 - Instruct students on lecture material
 - Assess and grade students fairly to allow for post-assessment learning

COMMUNITY INVOLVEMENT

- Member of Local Amateur Astronomy groups: NWA Stargazers and Sugar Creek Astronomical Society
 - Attend meetings, star parties, and observation events
 - Participate in Zooniverse sky surveys and projects
 - Strengthen passion for astronomy

AWARDS

- Governor's Distinguished Scholarship; Maintained 3.5 GPA
- Arkansas Chancellor's Merit Scholarship; Maintained 3.0 GPA
- Arkansas Academic Challenge Scholarship; Maintained 2.5 GPA
- Chancellor's List; 4.0 GPA per term
 - Fall 2022
 - Fall 2024
- Dean's List, 3.75 GPA per term
 - Spring 2023
 - Spring 2024