

MI

**Location**

Houston, Texas

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# Mason Istre

## Experience

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### May 2025 - Present

Researcher | University of Tulsa | Tulsa, Oklahoma

- Worked with a team of 6 to program a 7-axis robot arm to replicate the movements of prehistoric people.
- Used robotic arm to generate wear and tear patterns on stone tools to analyze under a microscope.
- Used artificially collected wear patterns as a basis of comparison to determine how actual prehistoric tools were used.
- Collected and analyzed Force and Torque data from the robot arm.

### January 2025 – February 2025

Aerospace Engineering Intern | NORDAM | Tulsa, Oklahoma

- Designed, fabricated, and tested both composite and aluminum structures
- Performed stress analysis on a variety of different materials and loads
- Developed manufacturing plans for part fabrication
- Worked in a collaborative setting

### January 2024 – February 2024

Lab Tech Intern | Red Devil Labs | Pryor, Oklahoma

- Performed product testing protocols on a variety of sealant and caulk products
- Developed a delayed thickening agent for caulk
- Operated and interpreted results from an FTIR machine

### August 2022 – May 2024

Tutor | Self-Employed | Tulsa, Oklahoma

- Tutored high school and middle school student
- Tutored clients in physics, chemistry, environmental science, and algebra

## Education

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Rice University | Houston, TX

**Majors** | Political Science, Social Policy Analysis, Mathematical Economic Analysis

**Minors** | Data Science; Computational and Applied Mathematics; Politics, Law, and Social Thought; Financial Computation and Modeling

## Achievements

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- Eagle Scout
- Rice Trustee Distinguished Scholarship Recipient
- Accepted into Yale, Brown, and Cornell
- National Merit Finalist
- 2x ISEF Finalist
- 5's on 18 AP Exams