

*Archaeology Southwest / University of Arizona Preservation Archaeology Field School*

## Student Outreach Projects Presented at the 2022 Archaeology Fair



PHOTO: SARA ANDERSON

GILA RIVER FARM, GILA, NM  
JUNE 25, 2022



Archaeology Southwest

300 N Ash Alley Tucson, AZ 85701

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## Jorge Barceló

UNIVERSITY OF ARIZONA

My research focused on tool manufacture during the precontact period. I focused on comparing two different recipes for pine pitch. I knapped several different types of flaked stone tools and hafted them with the different pine pitch recipes to determine the strengths and weaknesses of each.



## Ashley Tillery

UNIVERSITY OF NEVADA  
LAS VEGAS

I examined the cultural changes expressed through pottery vessel decoration in the Upper Gila area over time. I focused particularly on painted designs and on the manufacturing techniques used to create vessels.



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Totsoni Willetto

UNIVERSITY OF ARIZONA

Rena Schraeger

TEMPLE UNIVERSITY

Our project explored bioturbation in archaeology and the plants and animals that cause it. We discussed our specific experiences with bioturbation at the Gila River Farm site, and especially the animals in the area that created disturbances in our excavation units.



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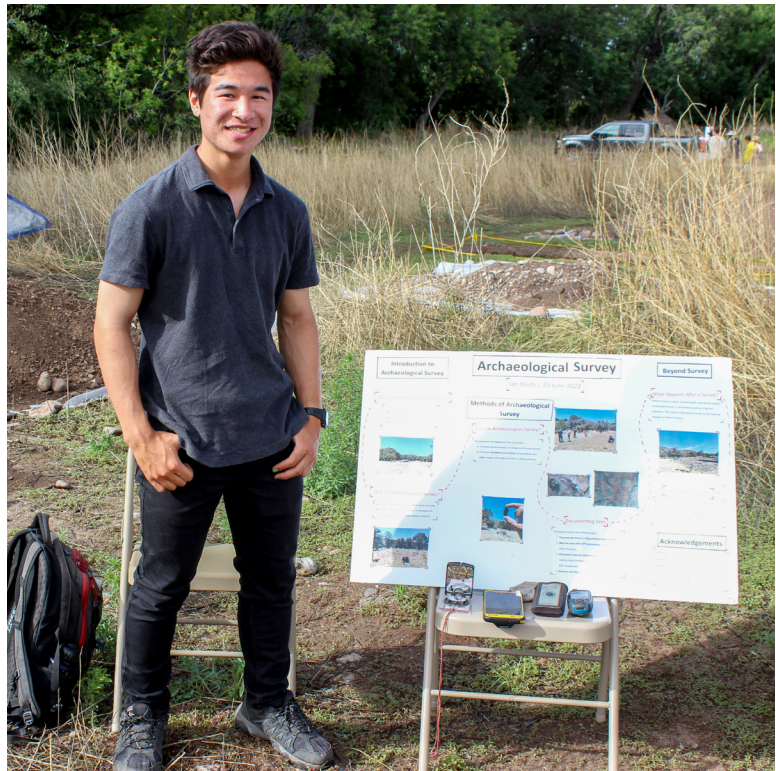
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## Ian Youth

WASHINGTON UNIVERSITY  
IN ST. LOUIS

My work explored the nature of archaeological survey, from mapping sites by pacing and compass to using GPS technology and the various methods used to locate and document archaeological sites on the landscape. I discussed survey's non-invasive nature and advocated for its continued use, particularly in fragile areas and environmentally unfamiliar regions.



## Emily Hale

UNIVERSITY OF ARIZONA

My project examined the differences between several recipes for organic and mineral paints used on ceramic vessels. I used two organic paint recipes (walnut and rhubarb) and several different mineral paint recipes (manganese, hematite, and serpentine). I ground the paint and applied it to clay tablets (one slipped, one polished, and one unpolished) to examine the differences among paint types on each surface after firing.



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## Avy Henrikson

UNIVERSITY OF EVANSVILLE

I researched local history at Gila River Farm and the surrounding area including Cliff, Gila, and Grant County. I also examined historic artifacts found during his season's excavation and linked these items to historic period activities in the area.



## Aleesha Clevenger

UNIVERSITY OF ARIZONA

My research focused on Excavation Unit 465 and the lithic raw materials that flaked stone tools were made from in this area. I linked the five most commonly used raw materials to the closest potential source location on the landscape near the Gila River Farm site based on geologic maps and other reference materials.

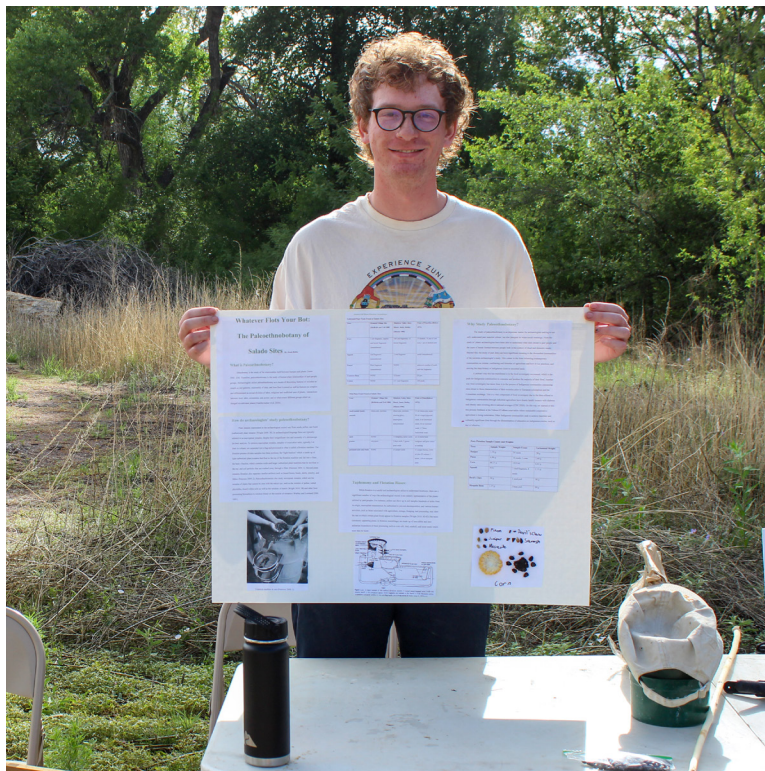




## Elie Stenson

CASE WESTERN RESERVE  
UNIVERSITY

My project summarized the geologic history of New Mexico, with emphasis on southwest New Mexico. I explored the physical connection between the items and raw materials used in daily life at Gila River Farm in ancient times and larger time scale changes in the land people relied on for resources.



## Jonah Bullen

UNIVERSITY OF TENNESSEE KNOXVILLE

The goal of my project was to exhibit the methods archaeologists use to study paleoethnobotany, including how these methods have been used to understand Salado period archaeological sites in our study area. I compiled data on paleoethnobotanical assemblages from several Salado sites to examine general subsistence trends. I also created a faux flotation sample with carbonized plant parts and processed it during the archaeology fair, so visitors could experience firsthand how flotation samples are processed to recover carbonized plant remains.



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## Seth Pratt Phillips

UNIVERSITY OF ARIZONA

I created a replica “Apache fiddle” using traditional techniques, along with some modern modifications when required. My goal was to create something that draws from multiple cultures to show a tangible way in which these different elements blend together in one item. I feel music is an excellent way to portray culture and knowledge, conveying interesting information in a context of history, stories, and individual artistry.



## Stephan Wallace

UNIVERSITY OF TEXAS EL PASO

My project concerned trade, especially long distance movement of parrots and macaws and their feathers and some of the ways in which they were used. I also included a more general discussion of other trade items.



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## Emily Barrick

PIMA COMMUNITY COLLEGE

My work explored what ground stone artifacts can tell us about an archaeological site, both at the community level and at the level of individual rooms and artifacts. I also created a replica of a finger-grooved mano found at Gila River Farm to illustrate one of the important cultural markers found at Salado period archaeological sites.





## Janae Garcia

UNIVERSITY OF HAWAII HILO

I researched local herbal medicine for my project. I learned about herbal medicine in the study area by talking with local experts in the community. I also harvested plants in the area, both near the Gila River Farm site and near locations we visited during archaeological survey work, and researched their uses based on ethnographic and other published sources in addition to local knowledge.



## Charles Hemphill

UNIVERSITY OF ARIZONA

My project focused on the excavation of Unit 465. I conducted a short tour of the excavation unit and displayed and discussed important artifacts found during our work there.



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# *Thank you!*

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PHOTOS: DAVID THORNBURG



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