



**Fall 2023**  
**Undergraduate Research Apprenticeship Positions**

**-AREAS/CONCENTRATIONS FOR RESEARCH-**

**Archaeology**

**Bioarchaeology**

**Environmental Social Science**

**Evolutionary Anthropology**

**Geology**

**Global Health**

**Museum Studies**

**Physical Anthropology**

**Social Sciences**

**Sociocultural Anthropology**

*Students should be certain to review all positions as many opportunities are combined with one or more other concentrations or disciplines.*

**Highlighted positions can be completed remotely and by online students.**

**Research Project or Internship Title:**

**Global Inequalities and Health**

**Academic Discipline:**

Global Health

Sociocultural Anthropology

**Project Description:**

This project explores how various forms of social and economic inequality around the world shape health risks and create health disparities. A major focus of the project is to characterize ethnic and caste disparities across a range of low-income countries and analyzing the consequences of such disparities for health and well-being in diverse contexts. <https://inclusivehuman.org/documenting-global-ethnic-disparities/>

**Student's Duties:**

Weekly attendance at one-hour lab meetings. Completion of weekly lab activities and preparation for lab meetings (2-3 hours + 1 hour lab meeting).

Activities include: (1) investigating and documenting different forms of privilege and discrimination experienced by ethnic groups worldwide, (2) analyzing qualitative data, (3) contributing to team discussions, and (4) writing up specific case studies of discrimination.

**Required Qualifications or Pre-requisites:**

We seek highly motivated students with a strong work ethic and attention to detail. Experience using Excel preferred.

**Project/Internship Location:**

Matthews Center 203M and remote

**Hours Per Week or Days and Times Needed:**

4 to 5

**Project Supervisor:**

Dr. Daniel Hruschka

**Supervising Faculty:**

Dr. Daniel Hruschka

**Contact Information:**

Dr. Daniel Hruschka at [dhruschk@asu.edu](mailto:dhruschk@asu.edu)

**Research Project or Internship Title:**  
**Archaeological Chemistry Laboratory Internship**

**Academic Discipline:**

Archaeology  
Bioarchaeology  
Physical Anthropology

**Project Description:**

The Archaeological Chemistry Laboratory (ACL) prepares archaeological and bioarchaeological material for isotopic analysis. Research in the ACL largely focuses on paleodiet and paleomobility of past peoples. In the Fall semester, the ACL will have several biogeochemistry projects from different global contexts including Bolivia, Greece, and Peru. Students will be assisting with laboratory duties for many different projects and will gain skills and knowledge of all major isotopic systems from the arrival of new samples to the ACL through the completion of preparation for mass spectrometry. Students interested in diet and migration in the past are encouraged to apply.

**Student's Duties:**

- (1) Interns will be trained on laboratory equipment like balances, and on basic laboratory safety and etiquette for work with chemicals. Interns will be expected, after training, to use laboratory equipment and chemicals with minimal supervision.
- (2) Interns will work with graduate researchers to process bioarchaeological material for isotopic analyses including carbon, nitrogen, oxygen, and strontium systems.

**Required Qualifications or Pre-requisites:**

Knowledge of basic laboratory procedures would be useful, but are not required. This internship would be ideal for students looking to gain more experience in bioarchaeology and biogeochemistry. Additionally, students will become familiar with different laboratory techniques and will work closely with several graduate researchers. Research could culminate in a poster lead authored by the student

**Project/Internship Location:**

Archaeological Chemistry Laboratory (ACL) SHESC 303

**Hours Per Week or Days and Times Needed:**

3-9 hours per week

**Project Supervisor:**

Kelly Knudson

**Supervising Faculty:**

Kelly Knudson

**Contact Information:**

Kelly Knudson at [kelly.knudson@asu.edu](mailto:kelly.knudson@asu.edu)

**Research Project or Internship Title:**

**Expanding a Database of Fossil Hominin Sites and Extinct Mammal Species**

**Academic Discipline:**

Evolutionary Anthropology

**Project Description:**

The IHO Paleoecology Lab is working on a range of projects aimed at understanding the past environments in which our fossil ancestors evolved. We are currently expanding on a database of fossil sites and animals by adding information on sites not already in the database, as well as data on species' occurrence, diet, size, locomotion, and abundance.

**Student's Duties:**

Depending on the project, students will assist with data collection from the literature or field catalogs, including gathering species lists from fossil sites and published body size, dietary, and locomotor data for each species.

**Required Qualifications or Pre-requisites:**

None

**Project/Internship Location:**

Tempe/Remote

**Hours Per Week or Days and Times Needed:**

6-10 hrs a week, must be able to attend lab meetings on Thursdays 3-4pm AZ time

**Project Supervisor:**

Denise Su

**Supervising Faculty:**

Denise Su

**Contact Information:**

Denise Su at [denise.su@asu.edu](mailto:denise.su@asu.edu)

**Research Project or Internship Title:**

**Coding camera trap videos to understand mammal distribution and composition in Tanzania**

**Academic Discipline:**

Evolutionary Anthropology

**Project Description:**

Students will be coding camera trap videos from Issa Valley, a chimpanzee site located in western Tanzania. The goal with this project is to use videos from the camera traps that we have set up to see which mammal species are present at Issa and where and when they are present on the landscape. This is part of a larger project that is using long-term ecological data from the site to model and test hypotheses of fossil hominin paleoenvironments. As part of this apprenticeship, students will identify and record the animals captured on the camera trap videos in a database and learn about modern mammal ecology and early hominin paleoenvironments.

**Student's Duties:**

Identify animals in camera trap videos  
Enter the data into a database

**Required Qualifications or Pre-requisites:**

None

**Project/Internship Location:**

Tempe/Remote

**Hours Per Week or Days and Times Needed:**

6-10 hrs/wk, must be able to attend lab meetings on Thursdays 3-4pm AZ time

**Project Supervisor:**

Denise Su

**Supervising Faculty:**

Denise Su

**Contact Information:**

Denise Su at [denise.su@asu.edu](mailto:denise.su@asu.edu)

**Research Project or Internship Title:**

**ASU Clean Indoor Air Project**

**Academic Discipline:**

Applied Math

Global Health

Sociocultural Anthropology

Public Health

**Project Description:**

The ASU Applied Infectious Disease and Epidemiology (AIDE) lab is an interdisciplinary group of public health professionals and students committed to supporting public health emergency response and equitable implementation of public health interventions. The student will support our Clean Indoor Air Project working to design cost effective and sustainable solutions to help schools improve indoor air quality. As part of this apprenticeship, the student will record, organize, and analyze data from air quality sensors installed in local schools. The student will also have the opportunity to learn strategies for science communication and outreach through our clean air citizen science project at public libraries across Arizona.

**Student's Duties:**

- Track air quality data on crowd-sourced maps and websites
- Organize and prepare equipment for deployment to schools
- Draft project summaries for websites and reports
- Assist with project coordination and field work as needed.
- Support community engagement activities including workshops, public library project demonstrations, and training citizen scientists

**Required Qualifications or Pre-requisites:**

There are no prerequisites for this apprenticeship. We are looking for strong oral and written communication skills, good problem-solving skills, personal motivation, and interest in being a part of a fun, diverse, team environment. If you have experience with data management, data analysis, or data visualization, please be sure to mention it in your application.

**Project/Internship Location:**

Daily work schedule will include a combination of remote work, team office located on Tempe campus, and scheduled field work as available

**Hours Per Week or Days and Times Needed:**

2 & 3 credit options (6-9 hours per week) are available

**Project Supervisor:**

Tanya Palit, AIDE Lab (SHESC)

**Supervising Faculty:**

Dr. Megan Jehn, SHESC

**Contact Information:**

Tanya Palit at [tpalit@asu.edu](mailto:tpalit@asu.edu)

**Research Project or Internship Title:**

Using volcanic glass to date and correlate archaeological and paleoenvironmental deposits

**Academic Discipline:**

Archaeology  
Evolutionary Anthropology  
Geology

**Project Description:**

This project focuses on processing and analyzing cryptotephra collected from archaeological sites throughout Italy and South Africa. Cryptotephra are microscopic volcanic glass shards that are ejected from an eruption and can travel up to 9000 km from the source volcano. In archaeology, these glass shards have been used to date deposits (Smith et al., 2018) as well as correlate and link stratigraphic layers between sites (Hirniak et al., 2020). Because cryptotephra deposits tend to be far from the source volcano, shards present in a sediment sample can be extremely low abundance and need specialized methods for extraction and analysis. Therefore, the focus of this project will mainly be on sample preparation. However, there are opportunities for students to help with samples in the microscopy and analytical (EPMA, ICP-MS) labs.

**Student's Duties:**

The student will learn how to extract cryptotephra from sediment samples and assist Jayde Hirniak in processing samples collected from various archaeological sites. The student will learn the beginning of the separation process (i.e., weighing out the sample, treating it with HCL) and how to prep epoxy rounds before geochemical analyses (i.e., cleaning, polishing, examining on microscope). If interested, students can conduct independent studies either as a part of an honors project or in preparation for the SHESC Poster Symposium. This is possible after working in the lab for one semester.

**Required Qualifications or Pre-requisites:**

Past experience working in a laboratory environment is preferred. Coursework in introductory geology or chemistry is preferred but not required.

**Project/Internship Location:**

Walton Center for Planetary Health 236

**Hours Per Week or Days and Times Needed:**

10 hours per week is preferred but I will accept students who can work as little as 3 hours a week

**Project Supervisor:**

Jayde Hirniak

**Supervising Faculty:**

Chris Campisano

**Contact Information:**

Jayde Hirniak at jaydehirniak@gmail.com

**Research Project or Internship Title:**

**A Big Look at Small Tools: The Emergence of Microoliths in Eurasia**

**Academic Discipline:**

Archaeology  
Evolutionary Anthropology

**Project Description:**

The appearance of microliths and their rapid spread throughout Eurasia is one of the major developments in the evolution of Paleolithic technologies, since microliths and microblades, as part of complex modular tool packages, became the dominant technology in the Pleistocene (around 25k years ago) and persisted into the Holocene. Microliths are small stone blades that measure less than 50 mm in length. Typically assumed to have been hafted to projectile weapons, microliths have been seen as an important innovation because they were portable, multi-purpose, and standardized tools. Despite the importance of microliths in Paleolithic record, there has been no large-scale, comparative analysis of the contexts of the emergence of these miniaturized lithics and, as such, we lack a broader understanding of the drivers of the emergence and spread of these microlithic technologies. This research project will describe the emergence and dispersal of microliths across Eurasia in the late Pleistocene and investigate the environmental, social, and technological contexts of its emergence and spread.

**Student's Duties:**

Data collection of archeological dates and assemblage information from published literature. Data management and analysis.

**Required Qualifications or Pre-requisites:**

Taken ASM 104 or ASB 222 or ASB 223. Any statistics courses taken would be a benefit.

**Project/Internship Location:**

Walton Center for Planetary Health 240 or **Virtual**

**Hours Per Week or Days and Times Needed:**

Up to 9 hours a week, but can do minimum of 3 hours a week.

**Project Supervisor:**

Cindy Huang

**Supervising Faculty:**

Charles Perreault

**Contact Information:**

Cindy Huang at [cindyhyhuang@asu.edu](mailto:cindyhyhuang@asu.edu)



**Research Project or Internship Title:**

**The CoVHORT Childrens and Teens Study (CATS) study**

**Academic Discipline:**

Archaeology

Global Health

Sociocultural Anthropology

**Project Description:**

The ASU Applied Infectious Disease and Epidemiology (AIDE) lab is an interdisciplinary group of public health professionals and students committed to supporting public health emergency response and equitable implementation of public health interventions. The undergraduate research apprentice will support The CoVHORT Childrens and Teens Study (CATS) study. The project is a five-year prospective cohort study investigating the indirect and direct effects of COVID-19 on teens and adolescents in Arizona. As part of this apprenticeship, the student will help recruit and retain study participants through social media campaigns, community engagement, and mentoring of teen study advisory board members. The student will also have the opportunity to learn strategies for public health communication and outreach by implementing recruitment strategies as directed by the leadership team.

**Student's Duties:**

Support project marketing and social media content creation

Research and track community events for recruitment

Assist with building community partnerships and develop opportunities for networking

Draft project summaries for websites and reports

Assist with project coordination and field work as needed.

Support community outreach activities

**Required Qualifications or Pre-requisites:**

There are no prerequisites for this apprenticeship. We are looking for strong oral and written communication skills, interest with working with communities, personal motivation, and interest in being a part of a fun, diverse, team environment. If you have experience with marketing and social media content creation, experience working with youth, interest and/or experience working in public health, experience with community organizing and/or community service and volunteer work, please be sure to mention it in your application.

**Project/Internship Location:**

\*Daily work schedule will include a combination of remote work, team office located on Tempe campus, and scheduled field work as available.

**Hours Per Week or Days and Times Needed:**

2 & 3 credit options (6-9 hours per week) are available.

**Project Supervisor:**

Jennifer Jackman

**Supervising Faculty:**

Megan Jehn PhD

**Contact Information:**

Jessica Wani at [Jessica.Wani@asu.edu](mailto:Jessica.Wani@asu.edu)

**Research Project or Internship Title:**

**Sustainability and collapse of ancient Maya cities**

**Academic Discipline:**

Archaeology

Sociocultural Anthropology

History

Sustainability Science

**Project Description:**

This project is part of a larger transdisciplinary project that asks, “Why did some cities and settlements persist for long periods, while others did not?”, and “How can this kind of information inform research on urban climate change adaptation today?” We are assembling archaeological and historical data on past urban growth trajectories of Maya cities, and try to determine what factors favored long-term survival or persistence. Students will work on an individual set of Maya cities and compile information on their growth, their decline, and possible reasons for those changes.

**Student’s Duties:**

- Assemble published reports and online information on specific sites.
- Enter data into project databases and create graphs of growth patterns.
- Contribute to exploratory data analysis.

**Required Qualifications or Pre-requisites:**

Required qualifications or pre-requisites:

- Classwork or field experience in archaeology, history, sustainability or a related field.
- Motivation, enthusiasm, attention to detail

Recommended qualifications:

- Experience working with archaeological or historical data and projects.
- Knowledge of elementary statistics.
- Ability to work well in groups

**Project/Internship Location:**

Mesoamerican archaeology lab, SHESC-104

**Hours Per Week or Days and Times Needed:**

6 to 12 hours, at times to be worked out individually

**Project Supervisor:**

Maranda Byrn (mwhitey@asu.edu)

**Supervising Faculty:**

Dr. Michael E. Smith (mesmith9@asu.edu)

**Contact Information:**

Dr. Michael E. Smith at mesmith9@asu.edu

**Research Project or Internship Title:****Teotihuacan: Archiving Materials from Archaeological Fieldwork****Academic Discipline:**

Archaeology  
Museums  
History

**Project Description:**

ASU has been involved with research at Teotihuacan in Mexico since 1990, focused on our laboratory/storage facility in Mexico. Major fieldwork projects at the site were never completed. We are organizing collections and documents, scanning important records, and uploading files to tDAR, the digital archaeological repository that is based at ASU. Students will help with these and other tasks as we bring some of the major Mesoamerican fieldwork projects to completion and expand understanding of one of the most important early centers anywhere in the world.

**Student's Duties:**

- Organize and catalog paper records
- Check data and records, both paper and digital
- Organize digital data, and help upload files to tDAR

**NOTE: We will take a small number of online students to help with specific tasks that can be done remotely.**

**Required Qualifications or Pre-requisites:**

Required qualifications or pre-requisites:

- Classwork or fieldwork experience in archaeology, museum studies, or a related field.
- Motivation, enthusiasm, attention to detail

Recommended qualifications:

- Experience working with archaeological or historical data and projects
- Knowledge of Spanish
- Ability to work well in groups

**Project/Internship Location:**

Mesoamerican Archaeology Laboratory, SHESC-104, and **online**

**Hours Per Week or Days and Times Needed:**

6 to 12 hours per week. Times depend on the schedules of other project members.

**Project Supervisor:**

Maranda Byrn (mwhitey@asu.edu)

**Supervising Faculty:**

Dr. Michael E. Smith (mesmith9@asu.edu)

**Contact Information:**

Dr. Michael E. Smith at mesmith9@asu.edu

**Research Project or Internship Title:**

**Serving Realness: An Exploration of Ballroom Kiki Culture, Community, and Gender in Arizona**

**Academic Discipline:**

Sociocultural Anthropology

**Project Description:**

The “Ballroom” scene has existed for decades as an autonomously organized community created by and for Black and Latinx LGBTQIA+ people as a space for social support and creative expression. However, the house culture of Ballroom has recently emerged in Arizona within the past few years, when LGBTQIA+ identities, specifically transgender identities, are subject to legal discrimination. The Arizona Ballroom Kiki scene members desire to record and archive their story to educate people on Ballroom culture, preserve their history, and further build community. This is a community-led research project that will use semi-structured interviews, participant observation, and collaborative photovoice/mapping workshops to document the burgeoning Arizona Ballroom Kiki scene and explore how the Ballroom Kiki houses function, “do gender,” and find meaning and community in Arizona.

**Student’s Duties:**

Read and analyze interview transcripts to label/code the data according to pre-identified themes. Organize and digitize project materials to publish to a digital archive or website. Participate in bi-weekly project meetings and communicate with the project supervisor. When necessary, complete assigned readings to increase understanding of the project and research methods.

**Required Qualifications or Pre-requisites:**

Candidates must have basic computer skills, the ability to use Microsoft Office (Word, PowerPoint, and Excel) or equivalent, and experience with Google Drive or Dropbox. Candidates will need access to a computer and internet to complete the project.

It is highly suggested that the candidate will have passed ASB 380 Language, Culture and Gender (or an equivalent course) – negotiable.

Preferred applicants will have experience with spreadsheets, data entry, managing data, qualitative data coding, prior research involvement, ethnography, storytelling, archiving, or website management. Also, basic knowledge of the Ballroom Kiki scene is preferred.

However, candidates lacking any of the above knowledge or skills should not be discouraged. Candidates will be trained in any necessary skills and provided with any necessary equipment.

**Project/Internship Location:**

Flexible -- In-person or **Remote**. The work can be conducted anywhere, but the candidate may also work in our designated lab space located in the School of Human Evolution and Social Change (SHESC).

**Hours Per Week or Days and Times Needed:**

Flexible, but 3 to 6 hours per week is preferred.

**Project Supervisor:**

Liam Gleason (they/them)

**Supervising Faculty:**

Prof. Cindi SturtzSreetharan (she/her)

**Contact Information:**

Liam Gleason (they/them) at [lgleaso6@asu.edu](mailto:lgleaso6@asu.edu)

**Research Project or Internship Title:**

**“Famines are a thing of the past”: Indigenous resilience strategies as drivers of change in rural food systems in Burkina Faso**

**Academic Discipline:**

Sociocultural Anthropology  
Environmental Social Science

**Project Description:**

This work will inform a scientific publication that seeks to evaluate how existing studies address the contribution of Soil and Water Conservation techniques to land rehabilitation, reforestation & food security, gaps to be filled & opportunities to build on, in order to inform future research & policies on climate adaptation & food security in West Africa.

**Student’s Duties:**

The student(s) will contribute in reviewing the literature on soil and water conservation (SWC) in the past 21 years (2000-2021) in the Sahel region of West Africa. More precisely, they will help to:

- Assess what existing studies say about the overall strengths and limitations of SWC strategies
- Review the data collection methods used in these studies (qualitative, quantitative, participatory, gender analysis...) along with their strengths & limitations
- Examine how existing studies examine the impact of SWC on land rehabilitation, reforestation, crop/livestock production and household food security outcomes
- Identify gaps in the literature and opportunities to build on.
- Contribute in the writing process of a scientific journal article

As part of this project, you will have the opportunity to collaborate with an external researcher & development practitioner, and an ASU alumni who previously started the literature review.

**Required Qualifications or Pre-requisites:**

Desired skills

- Strong writing skills and attention to details
- Interest in gaining some research skills and publication experience in the field of climate adaptation, food security & international/sustainable development
- Previous experience with literature review will be an asset but not required.

**Project/Internship Location:**

**Remote**

**Hours Per Week or Days and Times Needed:**

15-20 hours

**Project Supervisor:**

Elisabeth Ilboudo Nebie

**Supervising Faculty:**

Elisabeth Ilboudo Nebie

**Contact Information:**

Elisabeth Ilboudo Nebie at eilboudo@asu.edu

**Research Project or Internship Title:**

**Whaling Governance in Alaska: Using social networks to understand co-management practices over time**

**Academic Discipline:**

Applied Math

Sociocultural Anthropology

Environmental Social Science

**Project Description:**

Conservation governance has largely shifted from fortress mindsets toward co-management orientations reflecting human-non-human entanglements and (sometimes) embracing diverse knowledge systems. Co-management entities often have relatively narrow conservation or management mandates, yet due to the nature of interconnected and rapidly changing Earth systems, organizations increasingly need to engage strategically with diverse institutions and organizations across levels (local to global). Initially, the AEW

(Alaska Eskimo Whaling Commission) convened Inupiat and St. Lawrence Island Yupik whaling captains from 11 whaling communities, and engaged predominantly with NOAA and the International Whaling Commission. But over time, the diversity of issues, stakeholders and levels of jurisdiction the AEW

engages with has increased dramatically. This project examines the evolution of the Alaska Eskimo Whaling Commission, a co-management organization that protects the bowhead whale and subsistence whaling rights. This is a sub-project within a larger trans-disciplinary research project in SHESC called ARC NAV which explores change occurring in the Bering sea ice environment and community efforts to voice implications of change in local to global policy contexts. (See: <https://www.arcnav.org/> for additional details).

This governance sub-project involves thematic coding, institutional analysis and social network analysis based on three decades of AEW

meeting agendas and reports. Students will be invited to attend regular ARC NAV project meetings and can gain experience with interdisciplinary team science. Our sub-project goal is to examine the changing interactions of the AEW

with other governance entities, shifting narratives advanced by the AEW

**Student's Duties:**

Thematic coding of AEW

agendas and reports; social network data input, and analysis if interested. Opportunities to prepare and/or present results of work at research conferences and co-author academic articles are included in this position.

**Required Qualifications or Pre-requisites:**

No experience with data input or coding is required. On the job training will be provided.

Any experience with thematic coding of qualitative data and/or social network data input or analysis is welcome. Students need to be detail oriented.

**Project/Internship Location:**

Arctic Laboratory in SHESC (in person) or **online via zoom**

**Hours Per Week or Days and Times Needed:**

2-4 hours/week

**Project Supervisor:**

Shauna BurnSilver

**Supervising Faculty:**

Shauna BurnSilver

**Contact Information:**

Shauna BurnSilver at [sburnsil@asu.edu](mailto:sburnsil@asu.edu)

**Research Project or Internship Title:**  
**Archaeological Collections Care and NAGPRA**

**Academic Discipline:**

Archaeology  
Sociocultural Anthropology  
Museum Studies  
History  
Cultural Resource Management

**Project Description:**

The purpose of this internship is to provide you with hands-on experience with anthropological collections and an introduction to federal compliance for the Native American Graves Protection and Repatriation Act (NAGPRA). You will learn museum collections practices relating to the documentation, cataloguing, and care of anthropological items. Additionally, you participate in weekly reading discussions of critical topics related to the care of and Indigenous concerns with anthropological collections, and NAGPRA topics. You will contribute to social justice efforts centered at the Center for Archaeology and Society Repository and learn necessary skills for careers in NAGPRA, museums, and cultural resource management.

In this course students will:

- Gain experience with the documentation, proper care, and transfer of NAGPRA and non-NAGPRA related collections
- Assist with documenting and rehousing NAGPRA and non-NAGPRA relevant objects
- Participate in a weekly reading group that discusses collections and NAGPRA

**Learning Outcomes:**

- By the end of this internship, you will:
- Understand the basic principles of anthropological curatorial care
- Understand the legal and ethical context of anthropological collections
- Understand how to properly document anthropological collections and documents
- Understand the importance of respectful terminology and best practice in curatorial work
- Understand how to recognize artifacts in the lab
- Understand how to function as part of a collections team

**Required Qualifications or Pre-requisites:**

There are **no pre-requisites** for this internship. This internship is ideal for students looking to gain experience with the care of archaeological collections and those that are interested in archaeological social justice work. We are looking for students with the following personal qualities: punctuality, ability to commit to and keep a regular schedule, attention to detail in record keeping, a sense of curiosity, a desire to learn, and respectful to the concerns of descendant communities.

**Project/Internship Location:**

Internship activities and the weekly reading group are located in the Repository spaces of the Alameda Building.

***Center for Archaeology & Society Repository (Alameda Building)***  
*734 W. Alameda, Suite 120, Tempe, AZ 85282*



*Free Parking available, city bus 62 on Hardy Dr. to west, Venus Orbit on Broadway/Roosevelt intersection.*

*Students should allow time in their schedules to get back and forth between CASR and campus for classes.*

**Hours Per Week or Days and Times Needed:**

We offer a 2 credit and a 3 credit options. You must commit to at least 2 credits to qualify for this internship. Acceptance of an applicant is also based on schedule coordination.

**Be sure to specify your days and hours of availability in your application.**

**\*\*\*Requirements: M-F, 8 am – noon, no evening hours, no weekend hours.\*\*\***

**Project Supervisor:**

Dr. Allisen Dahlstedt

Dr. Emily Sharp

Aubree Gabbard

**Supervising Faculty:**

Dr. Christopher Caseldine

**Contact Information:**

Dr. Christopher Caseldine at [Christopher.Caseldine@asu.edu](mailto:Christopher.Caseldine@asu.edu)

**Research Project or Internship Title:****Culture, Health, and Environment Laboratory Intern and the NEW Social Research Training (SoRT) program****Academic Discipline:**

Global Health

Sociocultural Anthropology

**Project Description:**

The Culture, Health, and Environment Laboratory (CHEL) has several ongoing projects each semester that combine methods and theory from anthropology, public/global health, and sustainability. Primarily, our work focuses on the Global Ethnohydrology Study (GES), a transdisciplinary, multi-year, multi-site research project that examines cross-cultural perceptions of water issues in the context of globalization, urbanization, and climate change. CHEL's internship program operates each semester with approximately 15 undergraduate interns who work collaboratively with each other and graduate students in data management, analysis, and research tool design. New students complete a one-semester intensive Social Research Training (SoRT) program that provides hands-on training in qualitative and cross-cultural data collection and analysis. SoRT students are required to meet weekly at a set time. Upon successful completion of the SoRT, students are encouraged to apply to return in subsequent semesters to develop more advanced research skills by working on different projects. In-person and online students are encouraged to apply to complete the SoRT program as weekly meetings will be held in a hybrid/online medium.

**Student's Duties:**

As a result of our many projects, students' duties will vary. First-time interns will begin with intensive training on qualitative data collection and analysis by completing the Social Research Training (SoRT) over the course of one semester. Returning interns will be working on qualitative data coding of GES surveys as well as work on other projects as available. Other duties and projects may develop throughout the semester.

**Required Qualifications or Pre-requisites:**

There are no requirements or pre-reqs; we welcome interns at all stages of undergrad study.

\*Please indicate if you are fluent in languages other than English on your application. \*Please indicate if you have any experience with analytic software (e.g., R, SPSS, SAS, MAXQDA, NVivo, UCInet). \*\* Please indicate if you are a returning intern on your application. \*\*\* Please indicate if you are an online student applying through [the OURS program](#) and confirm that you can meet weekly at the time indicated below.

**Project/Internship Location:****Remote**, SHESC 265**New Students Hour Requirements**

New students accepted into the CHEL will be required to sign up for 3 credit hours of ASB 484 and dedicate 6-9 hours of work per week to complete the SORT. Weekly Zoom meetings will be determined in August and students are expected to meet each week.

**Returning Student Hours Per Week or Days and Times Needed:**

3 hours per week minimum (preferably in one time block). Exact times will be set around selected Interns, 3 units suggested, fewer units offered on a case-by-case basis.

**Project Supervisor:**

Jobayer Hossain with Dr. Cindi SturtzSreetharan

**Supervising Faculty:**

Dr. Cindi SturtzSreetharan

**Contact Information:**

SHESC.undergrad@asu.edu

**Research Project or Internship Title:****Historical Archaeology of the Portland Tract, Phoenix****Academic Discipline:**

Archaeology

**Project Description:**

In the spring of 2023 students in an ASU archaeological field practicum documented artifacts and archival materials associated with several mid-20th century structures on the property of S'edav Va'aki (formerly Pueblo Grande) Museum and Archaeological Park. This RAP will continue the work, further developing our historical data corpus in order to help us better understand the context of our archaeological results. Additionally, we will be reaching out to community organizations and the descendants of the residents of the area, as well as administrators at the S'edav Va'aki Museum, in order to develop further plans for historical analysis and interpretation of the materials documented at the site.

**Student's Duties:**

Students will undertake a number of tasks, both independently and in collaboration with faculty, including census and property records searches, community and descendant outreach, and historical archaeology and archival data analysis. Some of this work will have to be in-person, but much of it can be done online or over the phone.

**Required Qualifications or Pre-requisites:**

An interest in and basic knowledge of archaeology is required. Focus and a strong attention to detail. The ability to collaborate with students and faculty, while also being able to work independently on tasks in coordination with other project participants. Please specify any previous classes or research training in archaeology on your application

**Project/Internship Location:**

**Online** & The School of Human Evolution and Social Change building on the Tempe campus of ASU. Additional meetings might occur off-campus

**Hours Per Week or Days and Times Needed:**

3-9 hours per week, schedule is flexible and will be set at the start of the term

**Project Supervisor:**

Matthew Kroot

**Supervising Faculty:**

Matthew Kroot

**Contact Information:**Matthew Kroot at [matthew.kroot@asu.edu](mailto:matthew.kroot@asu.edu)

**Research Project or Internship Title:**

**Assessing the complexity of heat treatment technology and its implications for the evolution of modern human behavior**

**Academic Discipline:**

Archaeology

Evolutionary Anthropology

**Project Description:**

The heat treatment of stone to enhance flaking attributes was an important advance in the adaptive toolkit of humans and a major step in pyrotechnology. The earliest evidence for this is the heat treatment of silcrete ~164 ka at the Middle Stone Age site, Pinnacle Point 13B in South Africa. Recently, our research team has developed a new method to identify heat treated stone tools using 3D microscopy and silicon peels that record roughness measurements from the surface of artifacts. Currently, the origin and complexity of heat treatment technology is debated and its role in the production of specific stone tool technologies is little understood. There are two primary ways in which stone can be heat treated: 1) above ground, directly in the fire and 2) the below ground, 'sand bath technique.' This research focuses on determining which technique(s) were utilized by Middle Stone Age (MSA) hunter-gatherers on the coast of South Africa to heat treat silcrete through experimental archaeology. This research has implications for the evolution of human cognition, social transmission, and modern human behavior.

**Student's Duties:**

- Utilize 3D microscope to scan experimentally created stone tools
- Utilize hand-held colorimeter to measure color in stone tools
- Learn about lithic technology and how to identify their major attributes
- Data management
- Potentially aid in analysis

**Required Qualifications or Pre-requisites:**

None

**Project/Internship Location:**

WCPH 237

**Hours Per Week or Days and Times Needed:**

Minimum 3 hours per week

**Project Supervisor:**

John Murray

**Supervising Faculty:**

Curtis Marean

**Contact Information:**

John Murray at [jkmurra5@asu.edu](mailto:jkmurra5@asu.edu)

**Research Project or Internship Title:****An experimental use-wear study of ostrich eggshell (OES) water canteens****Academic Discipline:**

Archaeology

Evolutionary Anthropology

**Project Description:**

Fragments of ostrich eggshells (OES) are found in the Middle and Later Stone Age of South Africa. Some of these fragments are decorated with engravings and others were used to manufacture beads. Engraved OES and OES beads are thought to be early material evidence for symbolic behavior. In addition to be used for symbolic purposes, ethnographic data suggests that OES were also used as storage containers or functioned as water canteens. However, we currently do not have the ability to identify whether OES fragments were used for these utilitarian purposes. The majority of OES research has focused on the symbolic nature of this material despite much of the record being filled with blank, broken fragments. This research aims to develop a methodology for identifying whether an OES fragment was once part of an eggshell used as a water canteen through experimental archaeology and use-wear analysis. Experimental methods involve walking with an OES canteen and recording the use-wear. After walking a total of ~50-75km with a water-filled OES (in increments of 1-5 km at a time), we will be using a Keyence VR-3200 3D macroscope and a Dino-Lite digital microscope to analyze the inside surface of the egg to determine whether there are recognizable changes that can be indicative of use as a canteen.

**Student's Duties:**

- Walk with OES water canteen to produce use-wear.
- Analyze ostrich eggshell with digital and 3D microscope.
- Maintain an organized spreadsheet.

**Required Qualifications or Pre-requisites:**

None - all skills will be taught in the lab

**Project/Internship Location:**

WCPH/ASU Tempe Campus

**Hours Per Week or Days and Times Needed:**

Minimum of 3 hours per week.

**Project Supervisor:**

Jayde Hirniak

**Supervising Faculty:**

Curtis Marean

**Contact Information:**Jayde Hirnak at [jhirniak@asu.edu](mailto:jhirniak@asu.edu)

**Research Project or Internship Title:****Pan-American Ceramics Project****Academic Discipline:**

Archaeology

**Project Description:**

The Pan-American Ceramics Project is an open-access digital repository and tool for all aspects of ceramics, from clay selection to finished vessels, throughout the Americas, beginning with their initial appearance ca. 5500 BCE through the Historic Period. Our web application fosters synthetic research across borders by eliminating the complications of access to physical collections and paywalled publications, and it facilitates the inclusion of prehistoric material culture in educational resources. PACP's analytical capabilities allow users to explore multiple facets of human societies and identify gaps in our knowledge that can be addressed with future research.

**Student's Duties:**

Students will be responsible for reading archaeological reports and monographs on ceramic studies from sites throughout the Americas. We are interested in collecting data on all aspects of ceramic production (i.e., vessel shapes, petro-fabrics, decorative styles, and technological attributes) that are currently available in the literature. Students will work with the Project Director to identify a site or region of interest and develop a bibliography of relevant reports/monographs/articles detailing ceramic analyses that have been conducted for the site or region. The remainder of the semester will involve uploading data into the PACP web application using either a lab computer or their personal computer and providing feedback to the Project Director about the functionality of the web application. This work can be completed remotely by online students but requires maintaining regular contact with the Project Director, who will be traveling quite often so the ability to work independently is essential.

**Required Qualifications or Pre-requisites:**

Completion of introductory course in archaeology; preferred completion of course on archaeological ceramics, but not required.

Ability to work independently but maintain regular contact with the Project Director.

**Project/Internship Location:**

SHESC 112 / **Online**

**Hours Per Week or Days and Times Needed:**

up to 10 hours/week; days and times are flexible

**Project Supervisor:**

Andrea Torvinen

**Supervising Faculty:**

Matthew Peeples

**Contact Information:**

Andrea Torvinen at atorvine@asu.edu