

Emily Brooks

900 S Cady Mall
Tempe, AZ 85281
erbrook5@asu.edu
Updated November 2024

Education

August 2021 - Present

Arizona State University

School of Human Evolution and Social Change

Ph.D. Student, Anthropology with a concentration in Bioarchaeology

August 2019 – May 2021

Mercyhurst University

Ridge College of Intelligence Studies and Applied Sciences

M.S., Biological and Forensic Anthropology

Thesis: The Virtual Quantification of Trabecular Bone in 2D and 3D Imagery

Summa cum laude

August 2016-May2019

California State University, Northridge

College of Social and Behavioral Sciences

B.A., Anthropology

Summa cum laude

Teaching Experience

January 2024 – Present

Graduate Teacher's Assistant/NAGPRA Associate

Arizona State University - Center for Archaeology and Society Repository (CASR)

ASB 484: Archaeological Collections Care and NAGPRA

Inventory and document ancestral remains, inventory legacy archaeological collections, assist with consultation with local tribes, assist with rehousing and repatriation of cultural objects, write and edit national NAGPRA documents.

August 2023 – December 2023

Graduate Teacher's Assistant

Arizona State University

ASB 378: Globalization

ASB 337: Pyramids and Hieroglyphics

Facilitating email correspondence between students and faculty, grading short answer assignments, grading essays, assisting students with understanding course material.

August 2021 – May 2022

Graduate Research Assistance

Arizona State University

Collect and process data from medicolegal records, 3D scanning of skeletal specimens for the Skeletal Atlas of Elder Abuse: Establishing Markers of Physical Abuse and

Developing a Digital Diagnostic Tool for Education and Screening. **National Institute of Justice**, 2020-75-CX-0005.

August 2019 – May 2021

Mercyhurst Forensic Search and Recovery Team (M-FSRT) Member

Mercyhurst University

Forensic archaeological excavations (Phase II and Phase III), Forensic photography, Postmortem examinations, Processing and maceration of soft tissue and skeletonized remains, Assisted evisceration of donated individuals, Scalpel and universal precautions training, Biological profile analyses, Osteological analysis (trauma, pathology, nonmetric traits), Chain of Custody paperwork of human remains and evidence, Note taking/audio recording/transcription, Forensic report writing, Hands on work with local and federal

law enforcement, Collaboration with local forensic pathologists and medical examiner/coroner's offices, Work with decedents.

Quality Assurance Manager

Mercyhurst University

Lecture on quality assurance and forensic lab certification, Assistance in radiograph machinery certification, Facilitated communication between all members within the Department of Applied Forensic Sciences, Conflict mediation.

Spring 2021

Mercyhurst University

Invited Lecture

"XRF and PMI Estimation" by Emily Brooks and Theresa De Cree

Spring 2020 – Spring 2021

Mercyhurst University

Graduate Teacher's Assistant

Osteology and Osteology Lab, Biological Profile and Biological Profile Lab, Physical Anthropology and Physical Anthropology Lab

Spring 2018

Smithsonian Intern

Center for Folklife and Cultural Heritage

Aided in the creation and maintenance of a cultural exchange program (CCH Learning Together), Maintenance of the CCH Learning Together web page, Aided in communicating and organizing guest speaker presentations, Assisted in the review of literature for "Folklorists as Curators: Exploring the Four Cs" (2021), Transcription, Infographic creation, Administrative tasks, Assisted in exhibit curation.

Field and Research Experience

December 2024

Field Student and Researcher

Mensabak Project, Lake Mensabak, Chiapas, Mexico

Mapping, inventorying, and osteological analyses of bone shrines and caches.

June 2024 – July 2024

Field Student and Researcher

Mensabak Project, Lake Mensabak, Chiapas, Mexico

Mapping, inventorying, and osteological analyses of bone shrines and caches.

Summer 2017 – Summer 2019

Field School Student

Odyssey Field School, Limassol, Cyprus

Independent researcher, Teaching assistant, Bioarchaeological excavations (Phase III), Osteological analyses, Trauma and pathology analyses, Report writing.

Summer 2018

Field School Student

NAU Belize Valley Archaeological Reconnaissance (BVAR) Project

Phase II excavation, Phase III excavation, Artifact cleaning, Mapping, Backfill assistance.

Skills

Advanced Proficiency: Adobe Photoshop, Microsoft Office, Fragmentary osteology (human vs non-human, adult vs juvenile, bone vs non-bone), Biological profile analyses, Isomet slow speed saw, Forensic photography, ImageJ, BoneJ, Processing and maceration of soft tissue and skeletonized remains, Chain of custody.

Intermediate Proficiency: GIS, ArcMap, Trimble R8, Total Station, 3D scanning (Spyder, Shining Pro HD), Radiography (Konica Minolta Regius Console CS-2 Version 1.30R00 Digital Imaging System, Cocoon Portable X-ray), Statistical Software (SPSS, Graph Pad Prism), Microscope (Leica MZ16A, Dino-Lite, Olympus BX53), Autopsy saw, FORDISC 3.0, Medical terminology.

Conferences

- April 2025 **SAA** (Accepted)
Podium Presentation
Maya Cliff and Cave Burials in Tlalocan: Archaeological and Osteological Research at Lake Mensabak, Chiapas, Mexico by Emily Brooks* and Joel Palka
- February 2025 **AAFS** (Accepted)
Poster Presentation
Detecting Peri- and Post-Menopausal Bone Changes Utilizing micro-CT for Forensic Anthropology by Theresa De Cree, Emma Giacomello*, Shelby Garza, and Emily Brooks
- February 2024 **AAFS**
Poster Presentation
Skeletal Indicators of Down Syndrome: A Case Study in Forensic Anthropology by Theresa De Cree, Ivanna Robledo*, and Emily Brooks
- March 2022 **AABA**
Virtual Conference Session Chair
Forensic Anthropology – Exploring Terminology and Methods for Biological Profiles
- March 2022 **AABA**
Virtual Poster Presentation
Collagen Denaturalization in Porcine Femora: Maceration and its Effects on Co/NCo Ratios by Emily Brooks*, B.A., Theresa De Cree, B.S., Katelyn Bolhofner, PhD, D-ABFA.
- April 2021 **AABA**
Virtual Poster Presentation
A Validation Study of Quantitative Techniques for Commingled Remains by Emily Brooks*, B.A., Theresa De Cree*, B.A., Sarai Colon, B.A., Samantha Lafrance, B.A., Leslie Fitzpatrick, PhD, and Luis Cabo-Perez, M.S.
- February 2021 **AAFS**
Virtual Poster Presentation
A Geomorphometric Study on Sex Estimation of the Pelvis on Skeletal Remains: A Pilot Study by Emily Brooks*, B.A., Theresa De Cree*, B.A., Colleen Peters, B.S., and Luis Cabo-Perez, M.S.

A Pilot Study on 2D and 3D Image Distortion: A Forensic Anthropological Study by Emily Brooks, B.A., Theresa De Cree, B.A., Victoria Lamond*, B.A., Samantha Lafrance*, B.A., and Luis Cabo-Perez, M.S.
- November 2021 **Tom Ridge 17th Annual Research Symposium**
Virtual Conference Presentation
A Geomorphometric Study on Sex Estimation of the Pelvis on Skeletal Remains: A Pilot Study by Emily Brooks*, B.A., Theresa De Cree*, B.S., Colleen Peters, B.S., and Luis Cabo-Perez, M.S.

A Pilot Study on 2D and 3D Image Distortion: A Forensic Anthropological Study by Emily Brooks*, B.A., Theresa De Cree*, B.A., Victoria Lamond*, B.A., Samantha Lafrance*, B.A., and Luis Cabo-Perez, M.S.

Awards and Scholarships

- Spring 2024 **George Cowgill Teotihuacan Research Award**
Anthropology Department, School of Human Evolution and Social Change, Arizona
State University
- Spring 2021 **FSF Student Travel Grant**
AAFS 73rd Annual Scientific Meeting
- Spring 2020 **2nd Place Overall Graduate Oral Presentation, Session Viewership Award**
Tom Ridge 16th Annual Research Symposium.
- Spring 2019 **Bruce Gelvin Endowed Scholarship**
Anthropology Department, California State University, Northridge

Public Outreach

- November 2024 **Arizona State University Homecoming**
What's Your Maya Sign?
- March 2024 **CASR**
Feed My Starving Children