

Esteban Rangel
Estebanrangel1@unm.edu

EDUCATION

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| In Progress | PhD | Anthropology (Evolutionary Anthropology) University of New Mexico |
| 2023 | MA | Anthropology and Applied Archaeology Eastern New Mexico University Thesis: <i>"Cranial Vault Modification Variation in the pre-Columbian Andes A 3D Geometric Morphometric Approach."</i> |
| 2020 | BS | Anthropology, Minor in Geography Texas State University |

Non-Degree Education

Analysis of Organismal Biology/Introduction to Morphometrics Course
University of Manchester-Distance Learning
Drawsko Mortuary Archaeology Field School
Adam Mickiewicz University-Poznan, Poland

RESEARCH INTERESTS

Bioarchaeology, biodistance, cultural diffusion, cranial morphology, cranial modification, geometric morphometrics, 3D osteological analysis, identity/personhood, biocultural skeletal markers, dental anthropology, funerary/mortuary archaeology, and South American archaeology.

WORK EXPERIENCE

Bioarchaeologist/Assistant Site Director (2023)

SEARCH, Inc., Miami FL

- Performed Site Director duties such as directing excavations and day-to-day operations of a large Phase III site.
- Review faunal remains and identify human remains.
- Monitor mechanical excavation and mechanical screening.
- Evaluate possible features to identify primary and secondary burials.
- Provide guidance to crew members regarding excavation, screening, and identification of artifacts.
- Identify faunal samples and provide zooarchaeological analysis to determine species type.
- Adhered to project health and safety plan and participated in office and field training.
- Communicated weekly progress of excavations to client and stakeholders.

Graduate Assistant (2021-2023)

Eastern New Mexico University

- Assisted with Professor in guest lectures, handling study specimens, and guidance through the laboratories.

- Different duties included holding weekly office hours for student tutoring; grade homework and assignments, programming assignments, exams, or projects; keep student records; prepare answer keys or supplementary notes; set up practical labs and teach labs as needed.
- Completed skeletal inventory of human remains (n=30) housed in deep curation facility in campus.

Archaeological Field Technician/Team Lead (2021-2023)

SEARCH, Inc., New Mexico, Illinois, Texas, Louisiana

- Conducted archaeological survey, monitoring, and excavation in support of fieldwork for Phase I, II, and III studies.
- Adhered to project health and safety plan and participated in office and field training.
- Use electronic and traditional navigational equipment (GPS, iPad/ArcCollector/Survey 123, compass, and transit) to perform fieldwork.
- Photo-documented artifacts, ecofacts, features, excavation units, land use, landscapes, unique environmental features, historic structures, archaeological sites, unique environmental features, and work in progress and record an accurate photo log.
- Recorded accurate, organized, and clear field notes, maps, drawings, logs, forms, tables, databases, artifact bags, box labels, and other project documentation.
- Collected artifacts, ecofacts, and samples in accordance with the research design and keep an accurate field specimen log.
- Completed project tasks and errands as directed by the Archaeologist, Senior Archaeologist, and/or other project leadership.
- Maintain and organize field equipment, supplies, vehicles, and work site.
- Procure field equipment and supplies.
- Performed Team Lead duties such as directing surveys and day-to-day team operations.

Curation Assistant (2021-2022)

Blackwater Draw Museum - Eastern New Mexico University

- Re-housed and catalog items from Miles's collection and Blackwater Draw Site excavations.
- Re-housed and cataloged items from Cynthia Irwin Williams personal collection.
- Digitized and cataloged archival footage, including photographs from Miles's collection.
- Digitized loans and award documents from Blackwater Draw Museum.

Clinical Operations Manager (2018-2021)

CorneaGen/KeraLink International, Boston MA

- Responsible for day-to-day operations of high-volume processing laboratory.
- Supervises processing and laboratory staff.
- Communicated and resolved processing complaints with customers.
- Supervised laboratory maintenance and quality control, including monitoring inventory, ordering of all critical supplies, and ensuring that all laboratory equipment is used, maintained, and serviced according to company standards and manufacturer recommendations.
- Performed clean room (ISO 5) validation & qualification.
- Hired and trained a team of processing technicians and laboratory support staff.
- Developed a training program to successfully triple the processing output of the lab.
- Managed day-to-day operations of high-volume laboratory.
- Participated in audits and regulatory inspections (FDA, EBAA).
- Conduct Root Cause Analysis investigations for processing complaints and SOP departures.

Technical Director (2014-2018)

Lone Star Lions Eye Bank- Austin TX

- Supervised technical department including staffing and training new technicians
- Processed tissue for DMEK and DSAEK in clean room.
- Recruited and trained new tissue processing technicians.
- Implemented and validated new processing technique for pre-loaded DMEK
- Exhibited at national and local industry conventions promoting services and creating important networking connections that increase the revenue of the company (EBAA, ASCRS, ARVO, etc.)
- Performed slit-lamp evaluation, specular bio-microscopy, reviewed donor medical, social history to help determine tissue suitability.
- Participated in audits and regulatory inspections (FDA, EBAA)

Recovery Technician (2010-2014)

Lone Star Lions Eye Bank- Austin TX

- Performed eye tissue recoveries (physical examination, blood draw, in-situ corneal recovery, whole globe excision, laminar flow-hood corneal recovery & scleral preservation, etc.)
- Reviewed and compiled medical records for donor chart.
- Performed lab maintenance and cleaning.
- Packaged and delivered tissue.

Medicolegal Investigator Intern (2010)

Travis County Medical Examiner's Office – Austin TX

- Assisted ME investigators with all their duties which included crime scene visit and body examination.
- Conducted skeletal biological profiles (inventory, age estimation, sex estimation, ancestry estimation, stature estimation, and description of pathological conditions) on available skeletal remains to aid in identification using metric and non-metric techniques.
- Body processing for decedent intake, photography, fingerprint capture, body inspection and intake report writing.

PRESENTATIONS

2022. Rangel, Esteban. "Variability of Cranial Vault Modification Among Coastal and Highland Communities in the pre-Columbian Andes." Student Research Conference Eastern New Mexico University, Portales NM. (Poster)

2022. Rangel, Esteban. "Bioarchaeology and The Digital Revolution: Utilizing Non-destructive 3D Imaging Methods to Investigate Head-Shaping Practices among Ancient Andean Communities." Western Bioarchaeology Group 10th Annual Conference, Riverside, California. (Poster)

2022. Rangel, Esteban, and Susan Kuzminsky. "Exploring Cranial Vault Modification in the Andes Using 3D Imaging Methods." Society for American Archaeology 88th Annual Conference, Portland, Oregon. (Poster)

2023. Rangel, Esteban. "Variedad de practicas de deformación cefálica intencional en comunidades Andeanas usando modelos 3D y morfometría geométrica." XXII Coloquio Internacional de Antropología Física Juan Comas. Mexico City, Mexico (*November 2023*)

AWARDS AND HONORS

AABA Pollitzer Student Travel Award, 2022

Stephen R. Durand Anthropology Graduate Scholarship

New Mexico Higher Education Graduate Scholarship-UNM

COMMUNITY SERVICE

Member- Society for American Archaeology

Member-American Association of Biological Anthropologists

Officer- Mu Alpha Nu Anthropology Club, Eastern New Mexico University

Committee Member- Education Committee, Eye Bank Association of America

President- Forensic Anthropology Society, Texas State University

Secretary- Environmental Conservation Organization, Texas State University

LANGUAGES

English, Spanish (bilingual)

SKILLS

Geometric morphometrics, Multivariate analysis, skeletal inventory, and biological profile.

Archaeology excavation (Phase I-III), Mortuary excavation, zooarchaeology, forensic decedent intake processing.