

Katharine M. Williams

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Education

University of New Mexico: PhD in Archaeology *Continuing as of Fall 2017*

- Pursuing a PhD in Archaeology through the Anthropology Department

University of New Mexico: MA in Archaeology *Awarded Spring 2017*

- Received Master of Arts degree in Anthropology with a focus on Archaeology
- Developed an experimental design for the analysis of plumbate pottery with an electron microprobe

Colorado School of Mines: BS in Chemical Engineering *Awarded May 2014*

- Received Bachelors of Science degree in Chemical Engineering with a minor in Public Affairs
- Graduate level thermodynamics coursework

University of New Mexico Department of Anthropology Summer Field School 2012 and 2015

- Attended a summer field school in Chaco Canyon, NM (2012)
- Learned archaeological field techniques
- Participated in excavation of a historical site in Belen, NM (2015)

Sandia High School

Graduation Date: May 2010

Museum work, conservation experience, and publications

Desert View Watchtower Painting Conservation, Grand Canyon, AZ. September 2017

- Worked with Angelyn Bass, PI of Conservation Associates, to clean, consolidate, and document 1930s Hopi wall paintings on a concrete plaster substrate.
- Used pXRF to identify paint pigments

Montezuma Castle, AZ

July 2017 – Present

- Worked with Angelyn Bass, UNM research associate professor, to edge, reattach, and document ancient wall plasters inside the prehistoric cliff dwelling
- Worked with NPS staff to photograph treatment areas.
- Used pXRF to analyze plaster compositions and colored clay washes.
- SEM laboratory analysis to characterize plaster microstructures

Casa Grande, AZ

July 2017 – Present

- Worked with Angelyn Bass, UNM research associate professor, to edge, clean, and document ancient wall plasters inside the Great House at Casa Grande
- Future: work with a professional photographer on RTM capturing of previously undocumented plasteryglyphs
- Future: work in the SEM lab characterizing plasters

El Morro National Monument, NM

May 2017 - Present

- Worked with Angelyn Bass, UNM research associate professor, to consolidate, grout, and document historic sandstone inscriptions
- Geological assessment of sandstone subunit properties that might impact deterioration processes

- Future: work in the SEM lab characterizing sandstone subunits

Assistant to Archaeology Collections Manager, Maxwell Museum of Anthropology
May 2016 – Present

- Worked with Karen Price, archaeology collections manager, on basic collections management tasks including: cataloguing of bulk archaeological collections, entry of information into museum database, pot mount making, rehousing of non-bulk objects (such as yucca sandals, textiles, projectile points, arrow shafts, and Bronze Age swords), coordinating volunteer activities, supervising undergraduate students, assisting researchers with collections, and assisting with acquiring new accessions from donors. Additional activities include:
 - o Learned to take records quality object photographs
 - o Assisted with archaeological ceramic vessel reconstruction
 - o Prepared batches of adhesive and label grade B72 mixtures
 - o Prepared object condition reports
 - o Cleaned pest infested textiles
 - o Worked with Native American artists during the Chaco Heritage Project
 - o Assisted with XRD analysis of efflorescing salts on archaeological wooden objects
- Worked with Rae Beaubien, conservator, on cleaning and documenting of paintings and African wooden masks exposed to construction debris
- Assisted conservators Landis Smith, Mina Thompson, and Rae Beaubien with cleaning of the Smith Family Totem Pole
- Processed bulk archaeological material excavated by OCA during the MAPL WEP III pipeline project (over 140 boxes)

Collections Management Storage Workshop (Haak'u Museum) *August 2016*

- Attended a professional development workshop hosted by Museum of the American Indian conservators at the Acoma Haak'u Museum
- Learned various techniques for mount-making and storage of artifacts

Intern, Museum of Indian Arts and Culture *June 2015 – August 2015*

- Interned with Landis Smith, conservator, on the Pottery Project
- Archival research of ceramic recovery contexts to guide conservation decisions
- Consulted with Native American potters regarding care for archaeological collections

Archival Assistant, Maxwell Museum of Anthropology *August 2014 – May 2016*

- Assistant to Diane Tyink, archivist. Assisted with collection processing and finding aid creation for the Florence Hawley Ellis collection
- Learned archival techniques
- Interacted with donors during collection accession process

W.M. Keck Center Instrumental and Biochemical Comparative Archaeology Laboratory
June 2014-July 2014

- Worked as a laboratory assistant in the organic residue analysis of archaeological ceramics
- Analytical methods included: GC-MS, HPLC-MS, and AD-ICP-MS

Poster Session at the 2017 Society of American Archaeology Meeting *March 2017*

- Poster on compositional analysis of Plumbate pottery

Publications

- Crown, Patricia, et al. "An Experimental Comparison of Two Techniques for Methylxanthine Recovery from Pottery Fragments with Implications for Archaeology." Albuquerque Archaeological Society Newsletter.

Awards, Fellowships, and Scholarships

Hibben Fellow

August 2014 – May 2017

- A fellowship awarded to native New Mexicans pursuing research in anthropology or archaeology with a focus on the American Southwest or Mesoamerica.

University of New Mexico Higher Education Development Scholarship

August 2014-Present

- A scholarship awarded to graduate students from a minority group