

Hayley B. Monroe

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Education

Master's Degree – University of California, Los Angeles

UCLA/Getty Interdepartmental Program in Conservation of Archaeological and Ethnographic Materials
Graduated June, 2018

Master's thesis advisor: Ellen Pearlstein

Title of Master's thesis: *Conditioning Woody Basketry Elements with Water and Ethanol, An Investigation into the Effects of Existing Conservation Methods*

Experience gained in graduate program:

Foundation of ethics for the research, treatment and preservation of material cultural heritage with an emphasis on archaeological and ethnographic objects. Techniques of proper documentation, analysis and imaging including condition and treatment reports, diffuse light photography, UV-induced-vis-fluorescence imaging, portable-XRF analysis, and x-radiography. **Materials studied: Organics** (especially ethnographic materials) such as feathers, leather, plant-fiber based materials such as basketry, bark-cloth, gourd, and wood. **Inorganics** (especially archaeological materials) such as ceramics, wall-paintings, mosaics, stone, adobe and metals.

Projects and research: Investigation into the effects of rehydration with water and ethanol on basketry fibers (MA thesis). Research into the cause and possible prevention of waxy bloom on redbud elements of California basketry. Iconographic and non-invasive metallurgical analysis of an unusual ancient Chinese bronze mirror (T'ang or possibly Song period). Non-invasive p-XRF analysis of pigments on Roman wall paintings from the Getty Villa collection. Humidification and micro-climate housing of crazed amber.

Treatments:

Organic materials

- Humidification and reconstruction of a crushed Mono Lake Paiute burden basket.
- Cleaning of a lidded willow, redbud, and bracken fern root basket attributed to famed Yosemite weaver Lucy Telles.
- Cleaning, reversal of old repairs, and reintegration of a badly damaged tasseled leather Tuareg bag.
- Reconstruction and aesthetic reintegration of a smashed Hopi Katsina figure.

Inorganic materials

- Mechanical reduction of calcareous concretions as well as copper and lead corrosion products on a high-leaded bronze Roman oil lamp.
- Mechanical removal of calcite burial deposit as well as silver oxide treatment of bronze disease on T'ang or Song period Chinese bronze mirror.
- Re-treatment and reconstruction (with tinted B72 / glass micro-balloon fills) of an 8th century cacao vessel from the archaeological site of Amapa, Mexico.

Preventive and environmental monitoring: Contributed in environmental monitoring of the Thai and Korean at the World Music Collection (WMC) at UCLA and provided detailed report with monitoring results to the WMC.

Outreach: Assisted with student tours at UCLA College Night as well as the UCLA Cotsen Institute for Archaeology open house. Wrote for the UCLA/Getty program blog at <https://uclagettyprogram.wordpress.com/2017/02/21/the->

Undergraduate

Mount Holyoke College, South Hadley, Massachusetts (*graduated May, 2008*)

Major: Classics

Minor: English

Conservation Experience – Employment and volunteer work

Museum of Vancouver	Contract Conservator	February 2019 – ongoing	Supervisor: Wendy Nichols
WestBank Vancouver	Conservator and consultant	January 2019 - ongoing	
	Care and repair of a collection of couture garments collected by the company as well as mannequin dressing assistance and storage recommendations.		
North Vancouver Museum	Contract Conservator	November, 2018 - ongoing	Supervisor: Karen Dearlove
	Conservation of a taxidermy bear cub lamp from the historic Grouse Mountain Ski Chalet.		
Museum of Archaeology and Ethnology Simon Fraser University	Research Associate	October 2018 - ongoing	Supervisor: Dr. Barbara J. Winter, Museum Director
	Conservation of a collection of woven pounded cedar cloaks from various areas along the north coast of British Columbia. These cloaks require extensive humidification to correct distortions caused by poor storage, but this is complicated by the extremely fragile condition of the fibers. I am also coordinating research into the provenance of these cloaks, including characterization of the materials and weaving techniques to best identify communities of origin. The final goal of this project is repatriation.		
Museum of Vancouver Vancouver, British Columbia	Contract Conservator - Hazardous Materials Specialist	May - September, 2018	Supervisor: Fiona Hernandez
	My contract was a project to address the diverse array of hazards present in the Museum of Vancouver collection and revolved around the creation of an artifact handling training manual. The range of hazards included taxidermy specimens and indigenous textiles contaminated with arsenic, mercury and DDT, toxic pigments and patent medicines, chemicals, radioactive clock dials and asbestos. The bulk of the first half of the contract was taken up with research and testing to establish the range of hazards present in the collection.		
	The manual adheres to WorksafeBC protocols, including the City of Vancouver Exposure Control Plan, and is designed to guide curatorial staff as well as interns and volunteers who routinely handle artifacts. It covers the wide range of hazardous materials present in this as well as other museum collections, as well as specific categories of artifacts to be on guard for (such as taxidermy and men’s bowler and hop hats, all of which are routinely contaminated with very high levels of arsenic and mercury). The manual also provides guidelines on how to properly use personal protective equipment and safely handle hazardous materials, how to protect surfaces from cross-contamination, how to safely store artifacts, and a procedure for tagging artifacts both physically and in the database in such a way that is eye-catching and practical. Providing such information and clear guidelines on how to safely work with hazardous materials is a vital part of maintaining both a safe workplace as well as accessibility to the collection.		

Conservation Experience – Internships and pre-program work

Museum of Vancouver
Vancouver, British Columbia

Third-year intern January – April 2018

Supervisor:
Fiona Hernandez

For the exhibition *Haida Now*: condition survey and treatment of argillite statues and poles, fabrication of hat mounts, conservation of garments and blankets.

Conservation taxidermy collection, for upcoming exhibition on the native fauna of British Columbia. This project will continue the p-XRF work started at the Museum of Anthropology as the two museums share equipment. Many of these taxidermy mammals and birds are highly contaminated with As and Hg.

Museum of Anthropology,
University of British Columbia

Third-year intern September – December
2017

Supervisors:
Heidi Swereinga
Mauray Toutloff

P-XRF survey for heavy metal pesticides on Northwest Coast material and incoming loans as well as analysis of pigments on dyed Salish blankets.

Conservation, backing and mounting of 19th century Salish blankets for the exhibition *Fabric of our Land: Salish Weaving*.

Disaster kit preparation (to be stationed and ready to deploy in the Southern Mainland and Victoria).

Treatment of various objects from the collection including an early 20th C. Manchu kingfisher feather wedding headdress, a tin and acrylic Portuguese masquerade mask, a wood and clay ancestral figure from Papua New Guinea, as well as a turtleshell, bone, and coconut fiber headdress from the Marquesas Islands.

Participated in supervisor's ongoing research project on the effects of bulking waterlogged archaeological basketry samples with various molecular weights of PEG, as well as sucrose and trehalose.

Yosemite Museum
Yosemite National Park, California

Conservation June-August 2017
intern

Supervisors:
Professor Ellen Pearlstein and Curator
Barbara Beroza

Antiquities Conservation Labs
Getty Villa, Malibu, California

Summer August – September
conservation 2016
intern

Supervisors:
Marie Svoboda
Susan Lansing-Maish

Conservation of Hellenistic silver pieces, specifically polishing with precipitated chalk, deionized water, and a gentle surfactant as well as final brush coating with Agateen Lacquer.

Exhibition preparation of Roman frescos from Pompeii and Boscoreale. This included removing old plaster and grout from around the frescos to reveal the aluminum and concrete framing. This was then re-plastered, sanded, and painted with Liquitex acrylics to match the new gallery wall color. Some faux-finishing techniques used to aesthetically integrate the transition between the original frescos and the mounting material.

**Fowler Museum at UCLA –
Archaeological Repository**
University of California, Los
Angeles

Summer intern August – October 2016

Supervisor:
Dr. Wendy Teeter

Assisted with the packing, labelling, and rehousing of UCLA's archaeological collections (ground stones and both large and small ceramics) in preparation for the

collection move in December 2016.

These collections consisted mainly of south-western United States as well as Mexican archaeological material, all associated with UCLA excavations.

Also constructed customized supports and boxes for fragmentary archaeological basketry.

Yosemite Museum
Yosemite National Park, California

Conservation intern June – July 2016

Supervisors:
Professor Ellen Pearlstein and Curator
Barbara Beroza

Conservation internship involving treatment and rehousing of Native American objects including burden and cradle baskets. The mounts designed and created are intended to function as storage-to-display mounts.

Met weaver Julia Parker as well as former curator Craig Bates in order to consult about the construction and conservation of basketry as well as the causes and possible prevention of waxy bloom on baskets made with redbud (*Cercis occidentalis*).

This internship included extensive consultation with local tribes including the Mono Lake and Sierra Miwok, including a large meeting with nearly 30 tribal members on July 14, 2017. This ongoing conversation regarding the depth of meaning and personal or tribal significants within individual objects and therefore what objects can or cannot be treated was instrumental in decisions about basket treatments which followed.

RISD Museum
Rhode Island School of Design,
Providence, Rhode Island

Conservation intern January 2013 – May 2014

Supervisors:
Ingrid Neuman

Primary projects: cleaning and documentation of an 18th dynasty polychrome sandstone statue of a funerary priest of Tuthmosis III, and cleaning and conservation of the 12th century Dainichi Nyorai Buddha. Other projects: cleaning silver, glass, marble, and ceramic; repairing and in-painting frames; cleaning and waxing bronzes for the current exhibition Making it In America.

Participated in public outreach regarding museum conservation through the museum blog http://risdmuseum.org/manual/53_sandstone_statue_of_amenhotep

Ziyaret Tepe Archaeological Project
Diyarbakir Province, Turkey

Assistant field conservator 2011 and 2012 summer excavation seasons

Supervisors:
Excavation director director Dr.
Timothy Matney

Conservators: Lourdes Mesa Garcia
and Friederike Moll-Dau

2011 – Primarily worked on ceramics conservation, specifically working through material from past years with the expectation that some pieces would be able to go to the Diyarbakir Museum. Vessels and sherds were cleaned, reconstructed where possible, and documented.

2012 – Assistant field conservator Lourdes Mesa Garcia Worked on ceramics, bronze, iron, glass and shell beads, stone, frit, and bone. Provided outreach in the form of training and assistance in the conservation lab of the Diyarbakir Archaeological Museum. Also acted as secondary objects photographer and illustrator. Provided drawings for archaeobotanist Melissa Rosenzweig published in:

“Cultivating subjects in the Neo-Assyrian Empire”
Rosenzweig, Melissa S.
Journal of Social Archaeology 2016, Vol. 16(3) 307–334

Poggio Civitate Excavation Project

Field school student, 2008 and 2009 summer excavation seasons

Supervisors:
Excavation director Dr. Anthony Tuck,

Vecovado di Murlo, Italy

excavator,
conservation
assistant

conservator Steven Miller

2008 – Learned proper excavation methods, as well as field documentation and artifact stabilization.

2009 – Conservation assistant to Steven Miller, and student supervisor. Worked primarily with ceramic, bone, and metal objects. Learned proper artifact cleaning procedures including dry-cleaning, aqueous, and solvent methods, as well as reconstruction techniques for vessels and B-72 / glass micro-balloon fills.

Other internships and experience

Contract Mount-Making
Artifact Intact, Rhode Island

Assistant Mount Maker Nov. 2013 – Sept. 2015

Worked with contract mount-maker and owner of Artifact Intact, Jon Litwin. Participated in the mount-making and installations in the RISD Museum in Providence, Rhode Island, the Haffenreffer Museum of Anthropology, Brown University, the Doris Duke collection at Rough Point Mansion, Newport, Rhode Island, the Naval War College, in Newport, Rhode Island, and the Wadsworth Athenaeum in Hartford, Connecticut.

Experience included welding and soldering of brass, silver, and steel frames, construction of mounts using these materials as well as acrylic, Ethafoam, and mylar, installation of pieces on site in conjunction with curators and museum installation departments, and any custom painting or faux-finishing of mounts as required.

RISD Museum – reconstruction illustration for use in the Egyptian galleries

Illustrator 2014

Project commissioned by Curator of Ancient Art, Gina Boromeo, for the creation of a reconstruction drawing of an Ancient Egyptian bronze goddess Maat statuette (RISD 1989.088). The piece would have originally sat on a larger platform with an Ibis mummy, and this technical drawing recreated the layout of this complete arrangement based on similar intact pieces of the correct time period in the Metropolitan Museum of Art and the Brooklyn Museum.

Brown University Course: *The Archeology of College Hill*

Visiting Instructor December 2, 2013 and
again November 24 and
December 3, 2014

Taught field conservation and the proper care and storage of the objects recovered by the class excavation on the Brown campus as well as the installation of a small exhibition in the Joukowsky Institute of Archeology.

Giza Archive Project, Museum of Fine Arts, Boston

Intern February 2009 – June 2011 **Supervisor:**
Dr. Peter der Manuelian

Projects included extensive work with the MFA object database to link historical photographs and documents with objects as well as work in museum storage where much of the Giza material excavated by George Reisner in the early 20th century is housed.

Department of Art of the Ancient World
Museum of Fine Arts, Boston

Curatorial intern September 2008 – May 2009 **Supervisor:**
Dr. Rita E. Freed

Compiled the bibliography for the exhibition catalog for Secrets of Tomb 10A; Egypt 2000 BC, the major exhibition from October 2009 to June 2010. Also worked in the storage rooms pursuing research questions for curators as well as helped to maintain object data and photographs in The Museum System object database.

Workshops Attended

Cahuilla Basketry Workshop , Agua Caliente Cultural Museum (ACCM), Palm Springs, CA	January 10-11, 2017	Instructed by weaver Rose Ann Hamilton in the processing of basketry materials and weaving of traditional Cahuilla basketry. Also met with the director of the museum as well as members of the museum Board of Directors, tribal members, as well as the Agua Caliente Tribal Historic Preservation Office to discuss tribal history, goals and aims of the museum as well as the role of conservation within such a collection.
Two-faced/warp- faced: Andean Complementary Weaving Logic and Practice	November 5, 2016	A hands-on introductory lesson in traditional highland Andean weaving. Taught by weaver and Professor Sophie Desrosiers from the <i>École des Hautes études en Sciences Sociales</i> in Paris.
Voices in Contemporary Art (VOCA) Artist Interview Workshop	April 17, 2016	A workshop partnered with the 2016 ANAGPIC conference. Discussion included approaches to working with living artists as conservators, including interviewing and documentation techniques.
Copper Smelting Workshop	May 23, 2016	Built small chimney furnaces from scratch, fired them, and smelted copper prills from ore under the direction of Professor Lynn Swartz Dodd of the University of Southern California.
Roman Copper Forging Workshop	February 20, 2016	Roman copper forging workshop with Los Angeles blacksmith and Roman reenactor Arik Greenberg.
Practical, Scientific use of Photogrammetry and Structure from Motion Technologies in Cultural Heritage – 2013 Eastern Analytical Symposium and Exposition	November, 2013	Attended a course taught by Carla Schroer and Mark Mudge from Cultural Heritage Imaging, organized by the New York Conservation Foundation and conservator John Scott.
Infrared Reflectography Seminar – RISD Museum and Brown University	October, 2013	Seminar taught by Gianfranco Pocobene from the Isabella Stewart Gardner Museum, using 17th century Dutch panel paintings from the RISD collection.
Care of Outdoor Metal Sculpture Seminar – New York Conservation Foundation	July, 2013	Two week hands-on course taught by conservator John Scott in New York City and at Princeton University.
Reflectance Transformation Imaging (RTI) Workshop – Brown University	April, 2013	One-day workshop taught by PhD Candidate in Egyptology, Kathryn Howley.
Sustainable Preservation Practices for Managing Storage Environments	2013	Image Permanence Institute 2013 subscription webinar series

Profession Association Memberships

American Institute for Conservation (AIC)

Western Association for Art Conservation (WAAC)

International Council of Museums Committee for Conservation (ICOM-CC)

Pacific Conservation Group (PCG) – *coordinating the upcoming, spring 2018 meeting in Vancouver with current supervisor Fiona Hernandez*

Posters and Papers to be Presented

AIC Annual Conference 2018	Paper OSG Specialty Group	“Conditioning Basketry Elements with Water and Ethanol: An Investigation into the Effects of Standard Conservation Methods”
AIC Annual Conference 2017	Poster (paper alternate) OSG Specialty Group	“Choosing Treatment Priorities – Working with Tribal Communities in Yosemite National Park”
AIC Annual Conference 2017	Poster Session	“Treatment and Reconstruction of a Badly Damaged Hopi Katsina Doll Made of Gourd”
AIC Annual Conference 2017	Emerging Conservation Professionals Network (ECPN) Lightning Round	“Treatment and Reconstruction of a Badly Damaged Hopi Katsina Doll Made of Gourd”
Association of North American Graduate Programs in Conservation (ANAGPIC) 2017	Poster Lightning Round	“The Man in the Ancient Bronze Mirror”

Skills

Analytical techniques	Stereo microscopy Polarized light microscopy (PLM) Digital microscopy (time-lapse footage) Diffuse light photography UV-induced-vis-fluorescence imaging Reflectance Transformation Imaging (RTI) Photogrammetry and 3D modeling UV-vis-NIR reflectance spectroscopy (ASD FieldSpec 3 spectrometer, OceanOptics) Portable x-ray fluorescence spectroscopy (p-XRF) X-radiography Scanning Electron Microscopy with Energy-dispersive X-ray spectroscopy (SEM-EDS)
Mount-making	Welding and soldering of brass and steel mounts Custom shaping brass mounts with working and annealing Faux finishing brass and steel mounts with acrylics and padding with polyethylene felt Custom construction and padding of mannequins for costume displays Custom mounts made of cut and polished acrylic specifically for ‘indivisibly’ mounting jewelry Large-scale matting cutting and framing
Art	Technical illustration – hand-drawn and digital Printmaking – intaglio (copper plate), linoleum block Painting – watercolor, oil, and acrylic Metalworking – lost wax bronze casting, silver soldering Ceramics
Computer Programs	HOBOWear for Onset Dataloggers (PC and Mac) RTIBuilder (Mac) Agisoft Photoscan (Mac) Blender (Mac) Museum databases (Mac and PC): The Museum System (TMS) and MIMSY Adobe Photoshop and Bridge (Mac and PC) LibreOffice (Mac) Microsoft Word, Excel, and Power Point (PC and Mac) Keynote (Mac) Google Docs, Sheets, Slides, and Drive