

Curriculum Vitae

Hannah Duggan

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EDUCATION

University College London, London, UK 2017

» Master of Research in Science and Engineering in Arts, Heritage, and Archaeology (SEAHA), Institute of Sustainable Heritage

Tufts University, Medford, MA 2015

» Bachelor of Science in Chemical Engineering with a second major in Art History

EMPLOYMENT HISTORY

Scientific Analysis of Fine Art, New York, NY *Research Scientist*

October 2020 - present

» Scientist on various projects involving materials studies, authentication, attribution, and state of preservation for works of art including fine art, decorative arts, antiques, and contemporary art.

Bard Graduate Center, New York, NY *Cultural Heritage Science Fellow*

July 2022 - present

» Support the teaching of Professor Jennifer Mass
» Offer scientific support for student and exhibition research

Johns Hopkins University, Remote *Adjunct Lecturer*

January 2021 - present

» Instruct an online course on Conservation to museum professionals

Building Conservation Associates, New York, NY *Architectural Conservator*

February 2018 - June 2022

» Helped manage 15+ restoration projects at various historic sites in the New York City area
» Conducted technical analysis of a wide range of historic building materials included cross-sectional analysis of paint samples, micro exposure of paint samples, gravimetric analysis of mortar, XRF analysis, and adhesion testing
» Communicated results of technical analysis and conditions assessment in reports of varying detail for clients
» Determined appropriate treatment strategies, budgets and developed construction documents for projects of varying scopes

Parchem - Fine & Specialty Chemicals, New Rochelle, NY *Process Engineer*

June 2015 - September 2016

» Optimized internal processes and found creative solutions to company challenges
» Analyzed data from various sources to develop and execute marketing and supply chain strategies

Mahlstedt Gallery, New Rochelle, NY *Data Engineer*

December 2015 - September 2016

» Innovated and executed techniques for managing artwork data for two online galleries in relational databases
» Communicated with a global network of contracted artists to effectively market their work on a variety of platforms

MASTER'S DISSERTATION

The influence of animal glue on mechanical properties of painting canvases

2017

- » This project aimed to further understand what mechanical reinforcement traditional animal glue provides to canvas and what variables affect this reinforcement
- » Various glues and canvas were artificially aged to different degrees and the mechanical strength of the glue and canvas system was analyzed

RESEARCH PROJECTS

Imaging for the Documentation and Condition Assessment of Paintings

March 2017

- » Documented a selection of oil paintings with Hyperspectral Imaging, Multispectral Imaging, and Infrared Reflectography
- » Accessed condition of paintings and evidence of past treatment based on an analysis of the processed images
- » Developed preventative conservation strategy based on imaging results and analysis of environmental data provided by HOBO Data Loggers

Preventative Conservation Case Study of Wren Library at St. Paul's Cathedral, London

November - December 2016

- » Analyzed the feasibility of opening the Wren Library to visitors based on the temperature and RH fluctuations, current and predicted pest presence, VOC content measured with diffusion tubes, visible light levels, and dust accumulation
- » Created a preventative treatment plan to allow visitors to enjoy the space without contributing to deterioration

RESEARCH CONFERENCES AND INVITED LECTURES

Smithsonian Museum Conservation Institute, Topics in Museum Conservation

September 2017

- » Delivered lecture on the topic of degradation of materials used in lining paintings, subject of master's dissertation

SEAHA Conference 2017, University of Brighton

June 2017

- » Member of the Conference Committee

PROFESSIONAL ORGANIZATIONS

- » American Institute for Conservation (AIC)
- » International Council of Museums (ICOM)

SKILLS

- » Laboratory: FTIR, XRF, Raman, Cross-sectional Paint Analysis, Viscometry, Dynamic Mechanical Analysis, Instron Tensile Testing, Gravimetric Mortar Analysis, Bioreactor Operation, Membrane Ultrafiltration
- » Imaging: Multispectral Imaging, Hyperspectral Imaging, IR Reflectography, Digital Image Correlation
- » Computer: AutoCAD, MATLAB, VBA, Access, Aspen, SQL, HTML, and SuperPro

LANGUAGES

- » Spoken: English, Spanish

CERTIFICATIONS

- » OSHA 10-hour Safety Training
- » Supported Scaffolding Training
- » Suspended Scaffolding Training