

# EMILY MACDONALD-KORTH

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## ***INTRODUCTION AND KEY ACCOMPLISHMENTS***

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Emily MacDonald-Korth is a professionally-trained art conservator, a specialist in the scientific analysis of art and historic finishes, and Founder of two successful companies that innovate at the intersection of art research and business. An inventive problem-solver and creative data communicator with an energetic focus on the union of art, science, data, preservation, and business, she has nearly 20 years as an art world professional. MacDonald-Korth created Longevity Art Preservation LLC, a laboratory for conservation and forensic analysis of art; she also invented and co-patented, Art Preservation Index®, a rating system for fine art and two complementary products, the APIx Database and the APIx Mobile app, and continues to develop new metrics for art and the art market by turning data into products. In her previous positions, including Project Specialist at the Getty Conservation Institute (Los Angeles), MacDonald-Korth pioneered new technologies for the field while contributing to and leading high-profile projects across the United States, China, and Italy. MacDonald-Korth is the recipient of several prestigious awards, grants, and fellowships; she is widely published, a prolific public-speaker, and has been featured in numerous media outlets such as the BBC, Barron's/Wall Street Journal, Reuters, The Atlantic, Smithsonian Magazine, The Art Newspaper, Worth Magazine, Miami Herald, NY Observer, Artnet News and more.

## ***EDUCATION***

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### **UNIVERSITY OF DELAWARE**, Newark, DE

Fall 2008- Summer 2011, Master of Science in Art Conservation and Certificate in the Conservation of Paintings  
Program: Winterthur/University of Delaware Program in Art Conservation  
Major: Conservation of Paintings

### **PRATT INSTITUTE OF ART AND DESIGN**, Brooklyn, NY

Fall 1997-Spring 2001, Bachelor of Fine Arts  
Major: Printmaking

## ***EMPLOYMENT HISTORY***

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### **Longevity Art Preservation LLC**, Los Angeles then Miami, September 2013 - Current

Founder, President, and Chief Analyst

- Conservation treatment of paintings and murals; collaborations with collections and conservators globally.
- Hired to analyze paintings by masters such as de Kooning, Rauschenberg, and Picasso toward authentication.
- Featured art science specialist on the BBC television program Fake or Fortune; coauthored 1 publication and presented about the company's work at several professional meetings.

### **Winterthur/University of Delaware Program in Art Conservation**, Wilmington, DE, August 2018

Instructor, Introduction to Polarized Light Microscopy

### **Art Preservation Index®**, Miami, FL, July 2014 - Current

Creator and Founder

- The Art Preservation Index® (APIx), an art-data startup, is the stability rating system for fine art. A patent-pending invention, APIx is the first of its kind and was designed to standardize the measurement of stability risks of blue-chip paintings and other types of artwork that may deteriorate over time.
- Finalist in two start-up competitions and recognized by Miami Herald Top 20 Under 40 Award.
- Patent Number USPTO 20160019554, *Standard System and Method for Assigning Ratings to Art Materials and Works of Art Based on the Projected Stability of the Constituents*, January 2016.

### **The Getty Conservation Institute**, Los Angeles, CA, September 2011 – May 2014

Associate Project Specialist, Field Projects Department

- Conservation of and research into Roman wall paintings at the archaeological site of Herculaneum, David Alfaro Siqueiros's monumental mural, *America Tropical*, and the historic Eames House.
- Managed large-scale projects and multi-level teams. Coauthored 3 publications, and presented new research at 3 professional conferences.

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### **The Getty Conservation Institute, Los Angeles, CA, September 2010 – September 2011**

Getty Graduate Internship Fellow, Science Department, Modern and Contemporary Art Material Research

- Full fellowship at the foremost conservation research institution and the largest arts institution in the world. Hired directly out of the fellowship into the Getty Conservation Institute.
- Conservation of and research into Roman wall paintings at the archaeological site of Herculaneum, paintings by Jack Youngerman and Clyfford Still, and the large-scale Anti-Graffiti Coatings Project experiment
- Authored the primary publication on anti-graffiti coatings research and gave 4 professional presentations

### **Winterthur/University of Delaware Program in Art Conservation, China, Summer 2010**

Conservation Intern and team leader under the supervision of Dr. Susan Buck

- Collaboration with the Palace Museum, Forbidden City, Beijing, and Tsinghua University, Fengguo Temple, Yixian County, China; Scientific research of 12<sup>th</sup>-century Buddhist murals
- First person to adapt architecture mapping software, Metigo Map, for use on wall paintings.
- Received grants to take Metigo Map to China to train professors, students, and conservators in the field.
- Authored primary publication on graphic documentation methods for conservation; presented work at 8 professional conferences and symposia

### **Winterthur/University of Delaware Program in Art Conservation, Wilmington, DE, 2008 - 2010**

Graduate Fellow, Paintings Conservation

- Full fellowship at the top art conservation program in the world.
- Conservation treatment and analysis of paintings by Alice Neel, Felrath Hines, and Adolf Luben; and murals by Willard Borow and Taber Sears.
- First ever from the school to win the prestigious Getty Graduate Fellowship in the Getty Conservation Institute.

### **Winterthur/University of Delaware Program in Art Conservation, Wilmington, DE, 2010**

Teacher's Assistant, Conservation and Analysis of Paintings, Instructor Joyce Hill Stoner

### **Western Center for the Conservation of Fine Arts, Denver, CO, 2009**

Paintings Conservation Intern

- Conservation treatment of murals by George Fort Gibbs at the Philbrook Museum, Tulsa, OK; Architectural paint excavation at the Pioneer Historical Society, CO; Conservation treatment of Marcus Akinlana's *Mile High and Rising*, and Leo Tanguma's *The Children of the World Dream in Peace* and *In Peace and Harmony with Nature*

### **National Museum of American Illustration, Newport, RI, 2008**

Paintings Conservation Technician; Treatment of James Wall Finn's Tiffany Treillage Loggia Murals, 1901

### **The Barnes Foundation, Philadelphia, PA, 2008**

Paintings Conservation Intern; Treatment of 19<sup>th</sup>-century European frames

### **John Canning Conservation, Washington D.C., 2008**

Paintings Conservation Technician; Treatment of decorative wall painting in the Eisenhower Executive Office Building, Vice Presidential Ceremonial Office.

### **Barbara Ventresco and Wendy Samet, Philadelphia, PA, 2008**

Paintings Conservation Technician; Treatment of Al Held mural

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### **Winterthur/University of Delaware Program in Art Conservation, Wilmington, DE, 2007- 2008**

Paintings Conservation Intern; Treatment of 18<sup>th</sup>-century Charles Willson Peale *Portrait of William Paca*, 1772

### **Judith Eisenberg Textile Conservation, New York, NY, 2006 - 2007**

Volunteer Intern, then Textile Conservation Technician; Treatment of General Bouregard's Civil War Saddle, objects from the Jewish Museum and the Rubin Museum, and the AIDS Memorial Quilts

### **The Barnes Foundation, Philadelphia, PA, 2007**

Art Handler in Conservation Department; Art handling of the Renoir collection and works by Matisse and Picasso.

### **The Chrysler Museum, Norfolk, VA, 2007**

Paintings Conservation Intern; Treatment of paintings by Bierstadt, Regnault, and Roussel

### **Smithsonian Institution, Washington, DC, 2007**

Volunteer Conservation Intern; Deinstallation of the Ten Thousand Springs Pavilion

### **St. John the Divine Textile Conservation Lab, New York, NY, 2006-2007**

Volunteer Intern, Textile conservation; Treatment of tapestries

## **AWARDS, GRANTS, FELLOWSHIPS**

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**Art Slant Juried Showcase Winner, 2015**, for microscopy-based photography

**Miami Herald Business Plan Challenge, 2015**, Finalist

**University of Delaware Horn School of Entrepreneurship Startup Funding Competition, 2015**, Finalist

**Miami Herald Top 20 Under 40 Emerging Leadership Award, 2014**

**Getty Graduate Internship Fellowship, 2010 - 2011**

**Foundation of the American Institute for Conservation George Stout Grant, 2011**

**Winterthur/University of Delaware Program in Art Conservation Graduate Fellowship, 2008 – 2010**

**Betty Fiske Award in Asian Art Preservation, 2010**

**Samuel Kress Foundation Grant, 2010**

**Society of Winterthur Fellows Professional Development Award, 2009**

## **RESEARCH**

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**Elemental fingerprinting using x-ray fluorescence, 2016 - present**

**Art material spectral library for mobile infrared analysis, 2015 - present**

**Rating system for fine art based on longevity and stability of materials, 2014 - present**

**Graphic documentation methods for art conservation, 2009 - present**

**Materials and techniques of Roman wall paintings, 2011 - 2013**

**History of exterior metal finishes on the Eames House, 2012 - 2013**

**Anti-graffiti coatings, 2010 - 2011**

**Murals in America, 1893 to present, 2010**

**Materials and techniques of Chinese wall paintings, 2010**

**Materials and techniques of Spanish Colonial paintings, 2010**

**16<sup>th</sup>-century European paneled strainer construction, specifically El Greco strainers, 2009**

**Methods of measuring morphological changes in acrylic films and experimental set-up design, 2009**

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### ***PUBLICATIONS***

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**In-Situ Paint Investigation of the Exterior Steelwork of the Eames House Residence and Studio.** Eames House Report. Getty Publications. 2018.

**A Colonial Portrait and a Mystery.** American Institute for Conservation Annual Meeting, Painting Specialty Group Postprints. Coauthored by Rustin Levenson. 2017.

**Standard System and Method for Assigning Ratings to Art Materials and Works of Art Based on the Projected Stability of the Constituents.** United States Patent and Trade Office; patent number 20160019554. Coauthored by James W. Korth. 2016.

**Observations on Materials and Techniques Used in Roman Wall Paintings from the Tablinum of the House of the Bicentenary at Herculaneum.** Selected Papers in Ancient Art and Architecture. AIA Monographs, vol. 1. Coauthored by Francesca Pique and Leslie Rainer. Edited by Sarah Lepinski and Susana McFadden. 2015.

**Research into Anti-Graffiti Coatings for Acrylic Murals: Preliminary Testing and Evaluation.** Modern and Contemporary Mural Paintings 2012 Conference Proceedings. Cambridge Scholars Publishing. Coauthored by Leslie Rainer and Tom Learner. 2015.

**Preserving a Legacy, Getty Conservation Institute Contribution [the conservation of America Tropical by David Alfaro Siqueiros].** Getty Research Journal. Coauthored by Leslie Rainer. 2014.

**Speed, Precision, and a Lighter Load: Metigo MAP 3.0, a Great Advancement in Condition Mapping for Large-Scale Projects.** American Institute for Conservation Annual Meeting, Painting Specialty Group Postprints. June 2012.

### ***PUBLIC SPEAKING***

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**“Science in Art Authentication”** American Association of Museums and Galleries Annual Meeting, 2018

**“Scientific Analysis and Conservation of Paintings and Painted Surfaces”** AIC Annual Meeting, 2018

**“Forensic Art Conservation: Research and Preservation of Art and Architecture”** Vizcaya Museum, 2018

**“Forensic Art Conservation”** ArtTable Five-Minute Rounds, 2018

**“Expert Advice for Savvy Collectors: Art Acquisition and Preservation”** Art Basel Chubb panel, The Sagamore, 2017

**“Art Conservators Can Do Things That No One Else Can: Some Ideas of How to Use Your Superpowers”** Winterthur/University of Delaware 40<sup>th</sup> Reunion, 2017

**“A Colonial Portrait and a Mystery”** AIC Annual Meeting, 2017

**“Science in the Study of Art”** Vizcaya Museum and Gardens, 2017

**“Historic Paint Analysis”** Wiss, Janney, Elstner, 2017

**“Science in Art Authentication”** Boca Raton Museum of Art, 2016

**“BBC Fake or Fortune? Portraits”** BBC television, 2016

**“Conservators in Private Practice”** AIC Annual Meeting, 2015

**“Art Preservation Index / APIx”** University of Delaware, 2015

**“Art Preservation Index / APIx Business Plan Challenge Video Pitch”** The Miami Herald, 2015

**“Miami Herald Top 20 Under 40 Award, Art Preservation Index”** Miami Center for Arch. and Design, 2014

**“Reuters Global Market Forum Live Chat”** Reuters, 2014

**“Mounting Paint Samples Using the Phenix Method”** Getty Conservation Institute, 2014

**“Fifteen Shades of Grey? Color Analysis on the Eames House”** AIC Annual Meeting, 2013

**“Observations on Materials and Techniques Used in Roman Wall Paintings from the Tablinum of the Casa del Bicentenario at Herculaneum”** Archaeological Institute of America Annual Meeting, 2013

**“Research into Anti-Graffiti Coatings for Acrylic Murals: Preliminary Testing and Evaluation”** Modern and Contemporary Mural Paintings, Universidad Politecnica de Valencia, Spain, 2012

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### ***PUBLIC SPEAKING CONTINUED***

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**“Speed, Precision, and a Lighter Load: Metigo MAP 3.0, a Great Advancement in Condition Mapping for Large-Scale Projects”** American Institute for Conservation Annual Meeting, 2011

**“Tsinghua University/University of Delaware: Fengguosi Documentation and Research Project”** Tsinghua University, Beijing, China, 2011

**“University of Delaware Program in Art Conservation: Education on Campus and Abroad”** Tsinghua University, Beijing, China, 2011

**“New Technology for an Ancient Practice: Documentation Mapping with Metigo Map 3.0”** J. Paul Getty Museum, Getty Conservation Institute, Winterthur Museum, University of Delaware, the Palace Museum and Forbidden City (China), Fengguosi Temple (China), 2010-2011, 6 presentations

**“Authentication of Two Spanish Colonial Paintings”** Winterthur Museum, 2010

**“Introduction to Optical Microscopy for Art Conservation,”** University of Delaware, 2010, 3 lectures

**“Conservation Out West,”** Winterthur Museum, University of Delaware, 2009, 2 lectures

### ***SELECTED PRESS COVERAGE***

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*The Atlantic*, interview, discussion of contemporary art stability issues, 2017

*BBC Fake or Fortune?*, featured authentication expert, 2016

*Fortune*, interview, commentary on new work by artist Sarah Meyohas and the art market, 2016

*The Art Newspaper*, interview, discussion of art markets and Art Preservation Index, 2015

*ArtNet News*, interview, discussion of art markets and Art Preservation Index/APIx, 2015

*Smithsonian Magazine*, interview, for forensic work at Herculaneum archaeological site, 2015

*Miami Herald*, Business Plan Challenge, 2015

*Private Art Investor*, interview, art world leaders give expert insights into 2015 art market, 2015

*Miami Herald*, interview, Top 20 Under 40, 2014

*Private Art Investor*, interview, discussion of art markets and Art Preservation Index/APIx, 2014

*Worth Magazine*, feature about Art Preservation Index/APIx, 2014

*FINalternatives*, interview, discussion of art markets and Art Preservation Index/APIx, 2014

*Reuters*, interview, discussion of art markets and Art Preservation Index/APIx, 2014

*Reuters Global Market Forum*, interview, discussion of art markets and Art Preservation Index, 2014

*Barron's/Wall Street Journal*, interview, discussion of art markets and Art Preservation Index, 2014

*LA Business Journal*, feature about Art Preservation Index/APIx, 2014

*LA Times*, for work on Eames House paint analysis, 2013

*LA Times*, for work on Siqueiros *America Tropical*, 2013

### ***INSTRUMENTATION, SOFTWARE, OTHER SKILLS***

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- Ultraviolet Illumination (UV), Infrared Reflectography (IRR), X-Radiography
- Digital photo documentation and processing, AIC standards
- Analytical Instrumentation, Hands-On: Polarized Light Microscopy (PLM), Cross-Sectional Microscopy with Fluorochrome Staining, Energy Dispersive X-Ray Fluorescence Spectroscopy (XRF), Scanning Electron Microscopy with Energy Dispersive Spectroscopy (SEM-EDS), SEM in the Backscattered Electron mode (SEM-BSE), Fourier Transform Infrared Spectroscopy (FTIR), Near-Infrared Spectroscopy (NIR), Ultraviolet-Visible Spectroscopy, and Colorimetry/Spectrophotometry
- Analytical Instrumentation: Raman Spectroscopy, Gas Chromatography-Mass Spectrometry (GC-MS), and Differential Scanning Calorimetry (DSC), Liquid Chromatography-Mass Spectrometry (LC-MS, HPLC-MS)

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### ***INSTRUMENTATION, SOFTWARE, OTHER SKILLS CONTINUED***

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- Basic understanding of electronics and circuit design, electrical and mechanical skills
- Hand and power tools, scaffold work, lighting, scissor lift operation, MIG welding
- Software: Adobe Creative Suite, MetigoMap, AutoCAD, MonuMap, Articheck, intro level Python and R programming, Rapidminer, Native Instruments Maschine and Traktor, Apple Logic Pro, various audio and video editing programs

### ***PROFESSIONAL DEVELOPMENT***

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**American Institute for Conservation Annual Conference, 2010 – 2018**

**Bitcoin and Cryptocurrency, Princeton University for Coursera, 2017**

**R Programming, Johns Hopkins University for Coursera, 2016**

**Introduction to Python for Data Science, Microsoft for EdX, 2016**

**The Data Scientist's Toolbox, Johns Hopkins University for Coursera, 2016**

**SUP-X, Ft. Lauderdale, FL, 2016**

**AIA Layers of Understanding, Miami, FL, 2015**

**Startup City, Miami, FL, 2015**

**Archaeological Institute of America Annual Conference, Seattle, WA, 2013**

**The Siqueiros Legacy: Conserving the Artist's Monumental Murals, Los Angeles, CA, 2012**

**Modern and Contemporary Mural Paintings: Technique, Conservation and Access, Valencia, Spain, 2012**

**Presenting Data and Information: One-Day Course by Edward Tufte, Los Angeles, CA, 2012**

**Eastern Analytical Symposium, Somerset, NJ, 2009**

**Studying Old Master Paintings - Technology and Practice, London, UK, 2009**

**Art Historians and Conservators in Collaboration, University of Delaware, 2007**

**Responsibilities in Conservation, AIC Course, 2007**

### ***PROFESSIONAL ORGANIZATIONS***

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**ArtTable, 2015 - Present, Treasurer and Mentor**

**American Institute for Conservation, 2006 – Present**

**International Institute for Conservation, 2008 - Present**