

1st level Webinar on Multispectral Imaging for Cultural Heritage Diagnostics Acquisition and Interpretation of Data

This 4 hour **Webinar** covers **Documentation and Image Diagnostics for Cultural Heritage** and is designed for the professional figures of the **Conservator**, the **Art Historian** and the **Image Diagnostician** and for **students** of such subjects.

The **Webinar** consists of a complete overview of the topics and is propaedeutic to practical **First Level and Advanced workshops**. The webinar aims to achieve executive autonomy by the student, through the use of low-cost instrumentation and commercial softwares.

Topics:

1. **technical photography** for Cultural Heritage (**multispectral and computational Imaging**)
2. **basis for the implementation of the diagnostic set**
3. **colour correction and calibration**
4. **interpretation of acquired data: artistic technique, stylistic aspects and conservative conditions.**

The **interpretation** of the data involves a wide-ranging comparison between the images created during the course and archive material; the student will be trained in the **critical analysis** of the results, integrating aspects of **conservation, artistic technique and stylistic analysis**, following the methodology of the speaker who is an **Art Historian, Artistic**

Techniques Historian and Image Diagnostician and a university lecturer in these subjects.

The **Webinar** is divided into the following didactic blocks:

- # **Introduction to diagnostic techniques** using powerpoint presentation
- # **Build up of the photographic set** for different kinds of artifacts;
- # **Correct digital post-production** and basic archive storage through the most popular image processing and management software (via screen sharing)
- # **Critical and diagnostic interpretation of the data**
- # **Q&A**

Multispectral techniques on which the programme will focus are:

- **Ultraviolet fluorescence** for the study of varnishes, paint layers and retouching;
- **Infrared reflectography** for the study of underdrawings and pictorial *pentimenti*;
- **False colour post-productions** for non-invasive pigment recognition.
- **VIL (Visible-Induced Infrared Luminescence)** for rapid recognition of Egyptian blue, Han blue, Han purple, Maya blue and Cadmium based pigments
- **VIVL (Visible-Induced Visible Luminescence)**

An introduction of the following computational techniques will also be presented (not included in the 1st level webinar):

- # **image optimization** (digital extension of depth of field for all in focus, orthocorrection)

panoramic imaging (high definition and immersive images)

Advanced techniques of digital acquisition of surface morphology RTI (Reflectance Transformation Imaging) for the recognition of brushstrokes, incisions, *pentimenti* and tensional aspects of canvases.



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Consultation and comparison of results via Skype/Zoom/Teams conference
Remote assistance for set construction
Image acquisitions
Inclusion in purchasing groups for supplies of materials
Customization of specific technical equipment
Courses face to face

Certificate of participation will be sent via mail.

Curriculum Vitae

PAOLO TRIOLO

- PhD in HISTORY AND CONSERVATION OF CULTURAL, ARTISTIC AND ARCHITECTURAL HERITAGE, Graduate School: SOCIETIES, CULTURE AND TERRITORY, Università degli Studi di Genova.
- Lecturer and visiting professor at Faculty of Conservazione e Restauro dei Beni Culturali, Università of Urbino; at Corso di Laurea Magistrale in Metodologie per la Conservazione ed il Restauro dei Beni Culturali and at High Specialisation School in History of Art, Università of Genova, at Master of Arts in Conservation Restoration of Cultural Property & Sacred Art, USEK, Kaslik (Lebanon).
- He has participated in international training projects on CH dedicated to university teachers in Albania, Lebanon and Tunisia. Since 2006 he has been working on historical-artistic expertises supported by multispectral diagnostics and from 2011 to 2021 as image diagnostician at the Conservation and Restoration Center La Venaria Reale.

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INFORMATION

Duration of the course:

Total of 4 hours in single session online.

To optimize the didactic and practical aspect, participants are advised to have their SLR cameras and easels available to apply the instructions provided by the teacher during the webinar

DATE

SATURDAY 2nd April 2022

From 8.00 AEDT to 12:00 AEDT (UTC+11)

FEES

Students and recent graduates 95 euro (including GST)

Standard

135 euro (including GST)

Recent graduates must have obtained their degree within one calendar year of the course to access the reduced price. The maximum number of participants for the webinar is limited to 50 people.

Webinar provides: # 5% discount on the price of the future courses in person
Inclusion in purchasing groups for supplies of technical materials

After the course and network activities

The participants of the course may request the following additional and ancillary activities **not included in the cost of the course** (fees apply)

Telematic post-production service

Interpretation of participant's image data

