

PERSONAL INFORMATION Chiara Biribicchi

WORK EXPERIENCE

December 2021 – Present **Research Collaborator**

Youth in Conservation of Cultural Heritage (YOCOUCU APS)
Via Tasso 108, Rome (Italy)

- Main research projects and activities:
 - Development of sustainable non-polar solvents for cleaning interventions on works of art.
 - Development of a delivery system for non-polar solvents for cleaning interventions on works of art.
 - Analysis of the physico-chemical properties of potentially suitable bio-derived materials and their use as cleaning systems for the conservation Cultural Heritage.
 - Analyses of Cultural Heritage and conservation materials using analytical techniques such as Raman spectroscopy, Spectrocolorimetry, FT-IR ATR, Multispectral imaging, Optical microscopy, and SEM/EDS.
- Participation in specific research activities of the organization:
 - Evaluation of sustainable coatings and biocides for the conservation of a four canvases by Luca Vitone, in collaboration with MAXXI (Museo nazionale delle arti del XXI secolo, Rome).
 - Evaluation of sustainable coatings for the protection of a fountain at Villa Taverna (Rome).
 - Analysis of *Ritratto d'uomo* by Giacomo Balla, development of a suitable cleaning system, and restoration of the painting.
 - Evaluation of environmental parameters of Giacomo Balla's house museum to investigate the influence of visitors on the quality of the environment, in collaboration with MAXXI (Museo nazionale delle arti del XXI secolo, Rome).
 - Investigation of 1966' Barbies and evaluation of a green approach for their conservation.
 - Investigation and data curation on the oil paintings *Il Venditore di Cerini* (1878) by Antonio Mancini, *I Tesori del Mare* (1901) by Plinio Nomellini.
- Website building and maintenance.
- Member of the Organizing Committee of the IV Green Conservation of Cultural Heritage Conference 2022, including the workshop on Green Cleaning of Cultural Heritage at Galleria Nazionale d'Arte Moderna e Contemporanea in Rome (IT).

Sector Heritage Science

September 2019 – October 2019 **Internship**

Open Care S.p.A., Conservation department
Via G. B. Piranesi 10, 20137 Milan (Italy)

Preparation and optimization of cleaning systems for cleaning interventions on artworks; digital documentation; conservation treatments of artworks by Alberto Burri, Piero Dorazio, and Conrad Marca Relli; exhibition planning

Sector Heritage Science and Conservation of modern art

August 2018 – September 2018 **Internship**

Arcanes SARL
21, boulevard Ney, 75018 Paris (France)

Digital documentation, condition reports, and conservation treatments on artworks by Tsuguharu Foujita, Vermiglio, and a medieval artist.

Sector Conservation of Cultural Heritage

July 2017 and July 2018 **Internship**

Opificio delle Pietre Dure
Spoleto (Italy)

Operations for the rescue of the works of art (panel paintings, paintings on canvas, wooden sculptures) damaged by the earthquake of the summer of 2016 in Italy.

Business or sector Conservation of Cultural Heritage

February 2017 – June 2017 **Internship**

"I Bastioni" Partnership
Via San Niccolò 93 red, 50125 Florence (Italy)

Cleaning treatment on a polychrome wooden sculpture (second quarter of the XIV century)

Business or sector Conservation of Cultural Heritage

EDUCATION AND TRAINING

2022–Current

Ph.D. in Earth Sciences - Curriculum: Environment and Cultural Heritage ISCED 8

La Sapienza University of Rome, Italy

SDS: CHIM/12

Supervisors: Prof. Gabriele Favero, Prof. Andrea Macchia

Ph.D. Thesis Topic: Study and development of green products for conservation treatments on Cultural Heritage works.

Activities:

- Development of sustainable non-polar solvents for cleaning interventions on works of art.
- Development of a delivery system for non-polar solvents for cleaning interventions on works of art.
- Analysis of the physico-chemical properties of potentially suitable bio-derived materials and their use as cleaning systems for the conservation Cultural Heritage.
- Analysis of solvents flow in porous media.

Tutoring activities:

- May 2022 - September 2022: Tutor for the Analytical Chemistry I (with laboratory) course (40 h) at "La Sapienza" University of Rome, Chemistry Department (Chemical Sciences Bachelor Degree - L-27)

Additional activities: students representative for the XXXVII cycle of the Doctoral Program in Earth Sciences (Feb. 2022 - Jan 2025)

Courses attended:

- FT-IR and Raman spectroscopy.
- Minerals' structure.
- Nuclear Magnetic Resonance (NMR) applied to Cultural Heritage.
- Polymer chemistry.
- MATLAB programming.
- Python programming.
- Mathematical methods.

2015 – 2021 **Master's Degree in Conservation and Restoration of Cultural Heritage (LMR/02)** ISCED 8

Opificio delle pietre Dure, Florence, Italy

Average Mark: 29.37/30; Final grades: 110/110 with honors

Thesis topic: "Con Titolo": the conservation treatment on a gouache painting on plywood (1986) by Gino De Dominicis. A comparative study on selected adhesives to carry out a fixing intervention on a matt paint film

PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1
TOEFL iBT: 100/120					

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills – Good communication skills gained through national and international experiences in culturally and professionally diversified environments.

Job-related skills – Team working, flexibility, with a strong focus on project development and implementation.

Computer skills

- CAD: Good
- Microsoft Office: Proficient
- Photoshop: Independent
- R/Phyton programming: Good
- Google Suite: Proficient
- LaTeX: Good
- Photo editing: Proficient

Driving licence B

LECTURES AND CONFERENCES

- 1 July 2022 **"Deep eutectic solvents (DESs): new green solvents for the cleaning of nonpolar coatings" - Oral presentation (On-site)**
AIAr Thematic Conference "La Sostenibilità nei Beni Culturali"; 20 June - 1 July 2022, Padova (IT)
- 21 June 2022 **"Hydrophobic Deep Eutectic Solvents (DESs): new green solvents for the removal of nonpolar coatings from Cultural Heritage artifacts" - Oral presentation (On-site)**
First Symposium for YouNg Chemists: Innovation and Sustainability (SYNC2022); 20 - 23 June 2022, Rome (IT)
- 15 June 2022 **"DES vs CERE - Nuove alternative green per la rimozione di sostanze apolari" - Oral presentation (Online)**
YOCOUCU APS, Rome (IT)
- 03 February 2022 **"Cold-extracted Funori from red alga *Gloiopeltis tenax* as a green adhesive for matte paintings" - Oral presentation (On-site)**
IV Green Conservation of Cultural Heritage Conference 2022, Academy of Fine Arts, Rome (IT)
- 20 January 2022 **Chemistry for Cultural Heritage course - Teaching assistance (Online)**
Academy of Fine Arts, Naples
Degradamento dei Beni Culturali: fenomenologie e processi
Prof. Andrea Macchia
- 1 July 2021 **Young Professionals Forum 2021 conference - Oral presentation (Online)**
Centro Conservazione e Restauro La Venaria Reale, Turin
- 14 July 2021 **"Conservation and Management of Modern Works of Art" Master - Lecturer (Online)**
Opificio delle Pietre Dure, Florence (IT)
- 24 May and 22 December 2021 **"Conservation of Modern Works of Art" course - Lecturer (Online)**
Opificio delle Pietre Dure, Florence (IT)

AWARDS

- 1 July 2022 **"Best oral presentation by a young female researcher under the age of 35"**
Oral presentation's title: Deep eutectic solvents (DESs): new green solvents for the cleaning of nonpolar coatings
AIAr Thematic Conference "La Sostenibilità nei Beni Culturali"; 20 June - 1 July 2022, Padova (IT)

PUBLICATIONS

- [1] A. Macchia, H. Aureli, C. Biribicchi, A. Docci, C. Alisi, F. Prestileo, F. Galiano, A. Figoli, R. Mancuso, B. Gabriele, and M. F. La Russa. "In Situ Application of Anti-Fouling Solutions on a Mosaic of the Archaeological Park of Ostia Antica". In: *Materials* 15.16 (2022).

- [2] A. Macchia, C. Biribicchi, L. Rivaroli, H. Aureli, E. Cerafogli, I. A. Colasanti, P. Carnazza, G. Demasi, and M. F. La Russa. “Combined use of non-invasive and micro-invasive analytical investigations to understand the state of conservation and the causes of degradation of “I Tesori del Mare” (1901) by Plinio Nomellini”. In: *Methods and Protocols* 5.3 (2022).
- [3] A. Macchia, C. Biribicchi, P. Carnazza, S. Montorsi, N. Sangiorgi, G. Demasi, F. Prestileo, E. Cerafogli, I. A. Colasanti, H. Aureli, et al. “Multi-Analytical Investigation of the Oil Painting “Il Venditore di Cerini” by Antonio Mancini and Definition of the Best Green Cleaning Treatment”. In: *Sustainability* 14.7 (2022), p. 3972.
- [4] C. Biribicchi, O. Sartiani, C. Modesti, G. Lanterna, R. Pintus, and S. Pezzato. “Preserving the matte: evaluation of selected adhesives and fillers for a conservation treatment on a gouache painting by Gino De Dominicis”. In: *Young Researchers Forum Proceedings 2021, Centro Conservazione e Restauro “La Venaria Reale”* (2022), pp. 25–31.
- [5] C. Biribicchi, C. Modesti, R. Pintus, and O. Sartiani. “Il restauro di Con Titolo di Gino De Dominicis: sperimentazione di materiali e tecniche per la fermatura del colore e l’integrazione delle lacune su una superficie matte contemporanea.” In: *OPD Restauro* 33 (2021), pp. 223–230.
- [6] Biribicchi C. ““Con Titolo”: the conservation treatment on a gouache painting on plywood (1986) by Gino De Dominicis. A comparative study on selected adhesives to carry out a fixing intervention on a matt paint film”. In: *ICOM-CC MMCA Newsletter* 12 (2021), p. 37.
- [7] M. Ginanni, L. Gusmeroli, P. Riitano, V. Amato, E. Baronti Marchiò, C. Biribicchi, G. Federico, and R. Giordano. “Il cantiere didattico in un deposito del Tesoro dei Granduchi di Palazzo Pitti”. In: *OPD Restauro* 31 (2019), pp. 406–413.