



**Curriculum vitae
Europass**

Personal information

First name / Surname **CORTEA, Ioana Maria**
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ioana_maria.cortea@yahoo.com
Nationality Romanian
Date of birth Feb 10, 1986

Work experience

Dates 6/2015 - present
Occupation or position held Researcher
Main activities and responsibilities analytical characterization of fine art and archaeological objects via spectral techniques; elaboration of scientific papers, documentation and research reports
Employer National Institute for Research and Development in Optoelectronics INOE 2000, Department of Optoelectronic Methods and Techniques for Artwork Restoration & Conservation, 409 Atomiștilor Str., Măgurele, Ilfov, Romania
Type of business or sector research and development, conservation science

Dates 10/2012 - 05/2015
Occupation or position held Research Assistant
Main activities and responsibilities analytical characterization of modern materials used within the visual arts, conservation and restoration fields (physico-chemical stability, ageing behavior, modelling and analysis of degradation via induced accelerated ageing tests, colorimetric measurements, infrared and X-ray fluorescence spectroscopy)
Employer National Institute for Research and Development in Optoelectronics INOE 2000, Department of Optoelectronic Methods and Techniques for Artwork Restoration & Conservation, 409 Atomiștilor Str., Măgurele, Ilfov, Romania
Type of business or sector research and development, conservation science

Education and training

Dates 2012 - present
Title of qualification awarded Ph.D. Student
Organization providing education University "Politehnica" of Bucharest, Faculty of Applied Sciences, Department of Physics
Domain Applied Physics

Dates 2010-2012
Title of qualification awarded Master of Science for the Conservation and Restoration of Cultural Heritage
Organization providing education University of Bucharest, Faculty of Physics
Area field Interdisciplinary (Physics/Chemistry)

Dates 2005-2009
Title of qualification awarded Bachelor of Science in Engineering Physics
Organization providing education Babeș-Bolyai University, Faculty of Physics
Area field Applied Engineering

Personal skills and competences

Mother tongue	Romanian
Other language	English (advanced), Italian (intermediate), French/Nepali (beginner)
Computer skills	<ul style="list-style-type: none">• graphic design (Adobe Creative Suite – Fireworks, Illustrator, Photoshop)• programming, data processing and modeling (MatLab, Origin, KnowItAll, IGOR Pro)
Personal skills	open-minded, passionate, creative, good team worker
Other skills and competences	graphic skills, pencil drawing, CAD design
Driving license	B category
Special permits	CNCAN Level 1 practice permit for activities involving low radiological risk
Professional affiliations and memberships	Society for Applied Spectroscopy (SAS) International Institute for Conservation of Historic and Artistic Works (IIC)
Certificates	2015 Trainer course (Training-Romania, CEPECOM-Professional Training Centre) 2009 Certificate in Teaching English as a Foreign Language (TEFL) / Teaching English as a Second or Other Language (TESOL) 2005 Undergraduate Certificate in Information Sciences and Technology
Awards / Scholarships	2012/2015 Ph.D. Research Grant 2007/2008 Scholarship for Academic Excellence, Babeş-Bolyai University 2005/2007 Academic Scholarship 2001 Diploma of Excellence of the Romanian Ministry of Education and Research
Interexchange programs	2007 / 2008 / 2011 Summer Work & Travel, J-1 Visa Exchange Visitor Program, United States
Volunteer experience	2004 - present online activist for Greenpeace, ONE, WWF, AVAAZ 09/2009 enrolled in the European Voluntary Service 07/2009 - 09/2009 volunteer for Piticot Foundation
Hobby	creative arts, books, music, hiking..

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ANNEX.

A1

SELECTIVE LIST OF PUBLICATIONS

- **Problematici ale materialelor polimerice utilizate în practicile curente de conservare/restaurare. Aspecte fizico-chimice**, I.M. Corcea, in *Imagini contemporane în atelier. Practici artistice și științifice II*, R. Demetrescu (coord.), p. 70-83, București: Editura UNARTE, 2016. (ISBN: 978-606-720-070-6).
- **The series "I Never knew that about.." - The "Assumption of the Holy Virgin" Church of Tismana Monastery - Documentation and Investigations, Part II (2012-2016)**, R. Rădvan, L. Ratoiu, M. Dinu, I.M. Corcea, L. Ghervase, L. Constantin, C. Stancu, L. Angheluță. *Univers Științific / Top Form*, 2016. (ISBN: 978-973-7626-82-0).
- **Non-invasive optoelectronic techniques for folkloric multimedia deposit and advanced preservation protocols**, R. Rădvan, S. Ispas, I.M. Corcea, M. Dinu. 2nd International Conference on Art & Archaeology: Art and Archaeology Strengthened by Measurement Techniques, December 11-14, 2016, Jerusalem, Israel.
- **Influence of wavelength specificity on the photodegradation effects of polymeric materials used in cultural heritage conservation**, R. Rădvan, I.M. Corcea, in *Journal of Optoelectronics and Advanced Materials*, 18 (3-4), pp. 330-337, 2016.
- **Characterization of historical violin varnishes using ATR-FTIR spectroscopy**, I.M. Corcea, R. Cristache, I. Sandu, in *Romanian Reports in Physics*, 68 (2), pp. 615-622, 2016.
- **Characterization of contemporary bast textiles and investigation of induced ageing effects for complex cultural heritage restoration applications**, M. Dinu, H.C. Rădulescu, G. Nicula, R. Rădvan, I.M. Corcea, in *Industria Textilă*, 66(6) pp. 353-359, 2015.
- **Combined spectroscopic analysis for identification of mural paintings materials**, I.M. Corcea, L. Ghervase, M. Dumbrăvician, in *Proceedings of the 22nd International Conference on Systems, Signals and Image Processing*, London, pp. 329-332, 2015.
- **Investigations on the physico-chemical stability of polymeric adhesives and consolidants used in conservation**, I.M. Corcea, in *Restitutio*, 9, pp. 37-45, 2015.
- **Diagnostic investigations of original ultrathin preservation films on historical early electrotpe artefacts**, V. Ljubic Tobisch, I.M. Corcea, L. Ratoiu, R. Rădvan, at the *114th General Assembly of the German Bunsen Society for Physical Chemistry*, May 14-16, 2015, Ruhr-Universität Bochum, Germany.
- **Open access platform for in situ campaigns. Case study for Martyrs' Monument from Moisei, Maramureș, Romania**, M. Simileanu, L.M. Angheluță, I.M. Corcea, A.I. Chelmuș, 2014. in *U.P.B. Sci. Bull., Series A*, 76(3), pp. 245-252, 2014.
- **Preliminary results of accelerated ageing tests on acrylic art paints**, I.M. Corcea, A. Rădvan, C. Vasiliu, N. Pușcaș, in *U.P.B. Sci. Bull., Series A*, 76(1), pp. 215-222, 2014.
- **Contemporary art materials tests**, R. Rădvan, I.M. Corcea, at the *1st International Conference on Innovation in Art Research and Technology*, July 10-13, 2013, Evora, Portugal.
- **Technological study of ancient Romanian pottery**, I.M. Corcea, at the *3rd Symposium of the Balkan Archeometry Network*, 29-30 Octombrie 2012, Bucharest, Romania.

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TRAINING AND RESEARCH STAGES

- **Interpretation of Infrared and Raman Spectra**. Training course organised by IR Courses Inc. held within the Molecular Organisation and Assembly in Cells (MOAC) facility at the University of Warwick, Coventry, England (13 - 17 June, 2016).
- **OPTO-CH POLITEIA workshop: Laser technologies in cultural Heritage analysis, diagnosis and conservation**, training stage carried within the Institute of Electronic Structure and Laser of the Foundation for Research and Technology-Hellas (IESL-FORTH), Heraklion, Crete, Greece, May 4-10, 2015.
- **Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources / X-Ray Generators**. Training carried by the Nuclear Training Centre within the Horia Hulubei National Institute of Physics and Nuclear Engineering - IFIN HH, 27 Oct - 5 Noe 2014, Măgurele.
- **X-Ray Fluorescence Spectroscopy & Elemental Analysis: X-ray**. Workshop presented by Total Spectrum in collaboration with Bruker on May 23/24, 2014 in Sibiu.
- **Digital X-Ray Equipment: X-Ray Generators, Data Acquisition, Imaging and Processing**. Workshop presented by Total Spectrum in collaboration with Balteau-NDT and Virtual Media Integration LTD (VMI) on May 28/29, 2013 in Bucharest.
- **Training stage on a FEI Inspect F Scanning Electron Microscope** within The National Institute for Research & Development in Chemistry and Petrochemistry (ICECHIM), Bucharest (Feb-Jun 2011).
- **Research stage on advanced materials synthesis and characterization: X-Ray Diffraction (XRD), Thermogravimetric (TG) and Differential Thermal Analysis (DTA), Transmission and Scanning Electron Microscopy (TEM/SEM)**, carried within the Interdisciplinary Research Institute on Bio-Nano-Sciences (IRI-BNS) in Cluj-Napoca (Oct 2008/Jun 2009).

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WORKSHOPS. ON-SITE INVESTIGATIONS

- **2016 | The Mosque–Cathedral of Córdoba (10th century)**, UNESCO World Heritage Site. Investigations of mosaics on the south wall (The Mihrab); Cordoba, Spain.
- **2016 | Church of Omnium Sanctorum (13th century)**. Investigations of terracotta polychrome artifacts; Seville, Spain.
- **2016 | Gothic Door of the Apostles (14th century)** of the church of Santa Maria la Mayor. Investigations on the polychromy of stone statues and other decorating architectural elements; Morella, Castellon province, Spain.
- **2015 | The Sculptural Ensemble of Constantin Brâncuși in Targu-Jiu, Romania**.
- **2015 | Taskin Pascal original Harpsichord (1771)**, Peleş National Museum, Sinaia, Romania.
- **2015 | Byzantine church of Panagia (11th century)**, Fodele, Crete, Greece. Workshop on laser technologies for cultural heritage analysis, diagnosis and conservation.
- **2014 | Saint Stephen's Church (11th-13th century)**, UNESCO World Heritage Site, Nessebar, Bulgaria. Workshop on analytical instruments and technologies in cultural heritage.