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date of birth: 1978-10-27

Nationality: UK

Education

- 2008 PhD Courtauld Institute of Art, University of London
Dissertation title: Fluorescence and Raman spectroscopy for the analysis of protein-based paint media
- 2001-2004 MA Conservation of Paintings, Courtauld Institute of Art, University of London
- 1997-2001 MChem (Masters in Chemistry), University of Oxford
Supplementary Subject: Anthropology

Current position

- since 2020 *Head of the Department of Conservation*
Courtauld Institute of Art, United Kingdom

Areas of specialization

Conservation Science • Conservation of Wall Paintings

Appointments held

- 2019-2020 *Senior Lecturer*, University of Göteborg, Sweden
- 2011-2019 *Permanent Researcher*, Italian National Research Council
- 2009-2018 *Professor*, Accademia di Belle Arti di Brera, Milan
- 2010-2011 Post Doctoral Fellow
Department of Physics, Politecnico di Milano, Italy
- 2008-2010 Andrew W. Mellon Fellow & Coordinator of the Master of the Fogg Pietà Project
Courtauld Institute of Art, London
- 2004-2007 Marie Curie Early Stage Training Fellow
Institute of Electronic Structure and Laser
Foundation for Research and Technology Hellas (IESL-FORTH), Heraklion, Greece

Grants & Fellowships

- 2021 Principal Investigator, AHRC CapCo Grant - Upgrading Conservation Instrumentation for Paintings on Easels, Walls and Paper: leveraging instrumental developments for new research
- 2020-2021 Principal Investigator, Coordinator of the Swedish National Heritage Board (Riksantikvarieämbetet) Grant Entitled - Critical Assessment of Wall Painting Conservation in Sweden
- 2015-2018 Italian National Research Council Grant for collaborative research between the Italian National Research Council and the Chinese Academy of Cultural Heritage
- 2014-2016 Bilateral grant for collaborative research between Italy and the USA with the Metropolitan Museum of Art, from the Italian Ministry of Foreign Affairs
- 2014-2016 Joint Programme Initiative (JPI)– LEAD ART Participant of the research group at Politecnico di Milano
- 2013-2016 Bilateral project between Italy and Egypt, member of the research group
- 2013-2016 Coordinator for CNR-IFN of Italian Ministry Futuro in Ricerca project: From Futurism to Classicism (1910-1922). Research, Art History and Material Analysis
- 2012-2013 Franco-Italian Galileo research grant between CNR-IFN and University of Lille
- 2011-2012 Principal Investigator, British Academy Research Grant, Bernardo Daddi and his workshop: Theme and Variations
- 2001-2004 Arts and Humanities Research Council Grant for Conservation of Wall Painting MA
- 2001 Deutscher Akademischer Austausch Dienst (DAAD) fellowship, Humboldt University, Berlin, Germany

Publications

PEER REVIEWED JOURNAL ARTICLES

- 2021 M Ghirardello, V Otero, D Comelli, L Toniolo, D Dellasega, L Nessi, M Cantoni, G Valentini, A Nevin, MJ Melo, An investigation into the synthesis of cadmium sulfide pigments for a better understanding of their reactivity in artworks, 186
doi.org/10.1016/j.dyepig.2020.108998
- 2021 EM Angelin, S França de Sá, M Picollo, A Nevin, ME Callapez, MJ Melo, The identification of synthetic organic red pigments in historical plastics: Developing an in situ analytical protocol based on Raman microscopy, 52, 1, 145-158
doi.org/10.1002/jrs.5985
- 2020 EM Angelin, M Ghirardello, S Babo, M Picollo, L Chelazzi, MJ Melo, A Nevin, G Valentini, D Comelli, The multi-analytical in situ analysis of cadmium-based pigments in plastics, 157 doi.org/10.1016/j.microc.2020.105004
- 2019 R Linn, D Comelli, G Valentini, S Mosca, A Nevin, Egyptian blue pigment in East Mediterranean wall paintings: A study of the lifetime of its optical infrared emission, *Strain* 55 (2)
doi:10.1111/str.12277
- 2019 G Verri, C Martin de Fonjaudran, A Acocella, G Accorsi, D Comelli, C D'Andrea, A Nevin, F Zerbetto, D Saunders, An 'imperial radiation': Experimental and theoretical investiga-

- tions of the photo-induced luminescence properties of 6, 6'-dibromoindigo (Tyrian purple) *Dyes and Pigments* 160, 879-889
doi:10.1016/j.dyepig.2018.08.027
- 2019 D Comelli, D MacLennan, M Ghirardello, A Phenix, K Schmidt Patterson, H Khanjian, M Gross, G Valentini, K Trentelman, A Nevin, Degradation of cadmium yellow paint: new evidence from photoluminescence studies of trap states in Picasso's *Femme (Époque des "Demoiselles d'Avignon")* *Analytical chemistry* 91(5) 3421-3428
doi:10.1021/acs.analchem.8bo4914
- 2019 A Artesani, M Ghirardello, S Mosca, A Nevin, G Valentini, D Comelli, Combined photoluminescence and Raman microscopy for the identification of modern pigments: explanatory examples on cross-sections from Russian avant-garde paintings *Heritage Science* 7(1)17
doi:10.1186/s40494-019-0258-x
- 2019 L Giorgi, A Nevin, L Nodari, D Comelli, R Alberti, M Gironda, S Mosca, E Zendri, M Piccolo, F Izzo, In-situ technical study of modern paintings part 1: The evolution of artistic materials and painting techniques in ten paintings from 1889 to 1940 by Alessandro Milesi (1856–1945) *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 219, 530-538
doi:10.1016/j.saa.2019.04.083
- 2019 I Osticioli, M Pagliai, D Comelli, V Schettino, A Nevin, Red lakes from Leonardo's Last Supper and other Old Master Paintings: Micro-Raman spectroscopy of anthraquinone pigments in paint cross-sections *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 222, 117273 doi:10.1016/j.saa.2019.117273
- 2019 A Vichi, A Artesani, CS Cheung, A Piccirillo, D Comelli, G Valentini, T Poli, A Nevin, P Croveri, H Liang, An exploratory study for the noninvasive detection of metal soaps in paintings through optical coherence tomography *Optics for Arts, Architecture, and Archaeology VII*, 11058, 1105805 doi:10.1117/12.2527569
- 2019 A Artesani, L Binet, F Tana, D Comelli, L De Nardo, A Nevin, N Touati, G Valentini, D Gourier, Monitoring metal ion leaching in oil-ZnO paint systems with a paramagnetic probe *Microchemical Journal* 151, 104256
doi:10.1016/j.microc.2019.104256
- 2018 L Giacometti, A Nevin, D Comelli, G Valentini, MB Nardelli, A Satta, First principles study of the optical emission of cadmium yellow: Role of cadmium vacancies, *AIP Advances* 8 (6), 065202
doi:10.1063/1.5018512
- 2018 M Ghirardello, S Mosca, J Marti-Rujas, L Nardo, A Burnstock, A Nevin, M Bondani, L Toniolo, G Valentini, D Comelli, *Analytical Chemistry*, 2018, 90(18), 10771-10779
doi:10.1021/acs.analchem.8bo1666
- 2018 R Linn, I Bonaduce, G Ntasi, L Birolo, A Yasur-Landau, EH Cline, A Nevin, A Lluveras-Tenorio, Evolved Gas Analysis-Mass Spectrometry to Identify the Earliest Organic Binder in Aegean Style Wall Paintings, *Angewandte Chemie*, 2018, 130(40), 13441-13444
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- 2018 Y Song, F Gao, A Nevin, J Guo, X Zhou, S Wei, Q Li, A technical study of the materials and manufacturing process used in the Gallery wall paintings from the Jokhang temple, Tibet *Heritage Science* 6 (1), 18, 2018

- doi:10.1186/s40494-018-0182-5
- 2018 B van Driel, A Artesani, KJ van den Berg, J Dik, S Mosca, B Rossenaar, J Hoekstra, A Davies, A Nevin, G Valentini, D Comelli, New insights into the complex photoluminescence behaviour of titanium white pigments, *Dyes and Pigments*, 2018, doi:10.1016/j.dyepig.2018.03.012
- 2018 M Pagliai, I Osticioli, A Nevin, S Siano, G Cardini, V Schettino, DFT calculations of the IR and Raman spectra of anthraquinone dyes and lakes, *Journal of Raman Spectroscopy*, 2018, doi:10.1002/jrs.5334
- 2018 S Mosca, A Artesani, D Gulotta, A Nevin, S Goidanich, G Valentini, Raman mapping and time-resolved photoluminescence imaging for the analysis of a cross-section from a modern gypsum sculpture, *Microchemical Journal*, 2017, doi:10.1016/j.microc.2017.12.001
- 2017 EH Zidan, S Mosca, S Bellei, T Frizzi, M Gironda, I El-Rifai, H Mahgoub, S Sadik, MG Rashed, I Osticioli, S Siano, G Valentini, A Elnaggar, A Nevin, D Comelli, In situ imaging, elemental and molecular spectroscopy for the analysis of the construction and painting of a Late Period coffin at the Egyptian Museum of Cairo, *Measurement*, 2017, doi:10.1016/j.measurement.2017.11.055
- 2017 D Comelli, A Artesani, A Nevin, S Mosca, V Gonzalez, M Eveno, G Valentini, Time-Resolved Photoluminescence Microscopy for the Analysis of Semiconductor-Based Paint Layers, *Materials* 10 (11), 1335, 1, 2017, doi:10.3390/ma10111335
- 2017 A Artesani, F Gherardi, A Nevin, G Valentini, D Comelli, Photoluminescence study of the changes induced in the zinc white pigment by formation of zinc complexes, *Materials* 10 (4), 340, doi:10.3390/ma10040340
- 2017 E-R Janeček, Z Walsh-Korb, I Bargigia, A Farina, MH Ramage, C D'Andrea, A Nevin, A Pifferi, OA Scherman, Time-resolved laser spectroscopy for the in situ characterization of methacrylate monomer flow within spruce, *Wood Science and Technology* 2017, 51,2, doi:10.1007/s00226-016-0882-5
- 2017 A Elnaggar, M Leona, A Nevin, A Heywood, The Characterization of Vegetable Tannins and Colouring Agents in Ancient Egyptian Leather from the Collection of the Metropolitan Museum of Art, *Archaeometry* 2017, 59, 1, doi: 10.1111/arcm.12239
- 2017 A Artesani, S Bellei, V Capogrosso, A Cesaratto, S Mosca, A Nevin, G Valentini, D Comelli, Photoluminescence properties of zinc white: an insight into its emission mechanisms through the study of historical artist materials, *Applied Physics A* 2017, 122,12, doi:10.1007/s00339-016-0578-6
- 2016 D Comelli, M D'orazio, L Folco, M El-Halwagy, T Frizzi, R Alberti, V Capogrosso, A Elnaggar, H Hassan, A Nevin, F Porcelli, M G Rashed, G Valentini, The meteoritic origin of Tutankhamun's iron dagger blade, *Meteoritics and Planetary Science* 2016, 51, 7, 1301-1309, doi:10.1111/maps.12664
- 2016 D Comelli, V Capogrosso, C Orsenigo, A Nevin, Dual wavelength excitation for the time-resolved photoluminescence imaging of painted ancient Egyptian objects, *Heritage Science* 2016,4 (1), 21, doi: 10.1186/s40494-016-0090-5

- 2016 S Mosca, R Alberti, T Frizzi, A Nevin, G Valentini, D Comelli, A whole spectroscopic mapping approach for studying the spatial distribution of pigments in paintings, *Applied Physics A* 2016 122 (9), 815
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- 2016 S Mosca, T Frizzi, M Pontone, R Alberti, L Bombelli, V Capogrosso, A Nevin, G Valentini, D Comelli, Identification of pigments in different layers of illuminated manuscripts by X-ray fluorescence mapping and Raman spectroscopy, *Microchemical Journal*, 2016, 124, 775-784
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- 2016 A Elnaggar, P Fitzsimons, A Nevin, I Osticioli, M Ali, K Watkins, Investigation of Ultrafast Picosecond Laser System for Cleaning of Metal Decorations of 17th C. Gloves of King Charles I, *e-preservation science*, 12, 14-19
- 2015 A Elnaggar, P Fitzsimmons, A Nevin, K Watson, M. Strlič, Viability of laser cleaning of papyrus: Conservation and scientific assessment, *Studies in Conservation* 2015, 60(S1), 73-81
doi: 10.1179/0039363015Z.000000000211
- 2015 S Bellei, A Nevin, A Cesaratto, V Capogrosso, H Vezin, C Tokarski, G Valentini, D Comelli, Multianalytical Study of Historical Luminescent Lithopone for the Detection of Impurities and Trace Metal Ions, *Analytical Chemistry*, 2015, 87, 12, 6049-6056
doi:10.1021/acs.analchem.5b00560
- 2015 FC Izzo, V Capogrosso, M Girona, R Alberti, C Mazzei, L Nodari, A Gambirasi, E Zendri, A Nevin, Multi-analytical non-invasive study of modern yellow paints from postwar Italian paintings from the International Gallery of Modern Art Cà Pesaro, Venice, *X-ray Spectrometry* 2015, 44(4), 296-304
doi: 10.1002/xrs.2623
- 2015 V Capogrosso, F Gabrieli, S Bellei, L Cartechini, A Cesaratto, N Trcera, F Rosi, D Comelli, G Valentini and A Nevin, An integrated approach based on micro-mapping analytical techniques for the detection of impurities in historical commercial Zn-based white pigments, *Journal of Analytical Atomic Spectrometry* 2015, 30, 828-838,
doi: 10.1039/C4JA00385C
- 2014 A Cesaratto, M Leona, JR Lombardi, D Comelli, A Nevin, P Londero, Detection of Organic Colorants in Historical Painting Layers Using UV Laser Ablation Surface-Enhanced Raman Microspectroscopy, *Angewante Chemie International Edition*, 2014, 53 (52), 14373-14377
doi: 10.1002/anie.201408016
- 2014 A Nevin, A Cesaratto, S Bellei, C D'Andrea, L Toniolo, G Valentini, D Comelli, Time-Resolved Photoluminescence Spectroscopy and Imaging: New Approaches to the Analysis of Cultural Heritage and Its Degradation, *Sensors*, 2014, 14(4), 6338-6355
doi:10.3390/s140406338
- 2014 E Pouyet, A Lluveras-Tenorio, A Nevin, D Saviello, F Sette, M Cotte, Preparation of thin-sections of painting fragments: Classical and innovative strategies, *Analytica Chimica Acta*, 2014
doi:10.1016/j.aca.2014.03.025
- 2014 D Comelli, F Toja, C D'Andrea, L Toniolo, G Valentini, A Nevin, Advanced non-invasive fluorescence spectroscopy and imaging for mapping photo-oxidative degradation in acrylonitrile-butadiene-styrene: A study of model samples and of an object from the 1960s, *Polymer Degradation and Stability*, 2014, 107, 356-365

- doi: 10.1016/j.polymdegradstab.2013.12.030
- 2014 A Farina, I Bargigia, E-R Janeček, Z Walsh, C D'Andrea, A Nevin, M Ramage, OA Scherman, Antonio Pifferi, Nondestructive optical detection of monomer uptake in wood polymer composites, *Optics Letters*, 2014, 39 (2) 228-231
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- 2014 A Cesaratto, C D'Andrea, A Nevin, G Valentini, F Tassone, R Alberti, T Frizzi, D Comelli, Analysis of cadmium-based pigments with time-resolved photoluminescence, *Analytical Methods*, 2014, 6, 130-138
doi:10.1039/C3AY41585F
- 2014 D Saviello, E Pouyet, M Cotte, L Toniolo, A Nevin, Synchrotron-based FTIR microspectroscopy for the mapping of photo-oxidation and additives in acrylonitrile-butadiene-styrene model samples and historical objects, *Analytica Chimica Acta*, 2014, 843 (2014) 59-72
doi: 10.1016/j.aca.2014.07.021
- 2013 I Bargigia, A Nevin, A Farina, A Pifferi, C D'Andrea, M Karlsson, P Lundin, G. Somesfalean, S. Svanberg. Diffuse optical techniques applied to wood characterization, *Journal of Near Infrared Spectroscopy*, 2013, 21 (4), 259-268
doi: 10.1255/jnirs.1068
- 2013 A Cesaratto, A Nevin, G Valentini, L Brambilla, C Castiglioni, L Toniolo, M Fratelli, D Comelli, A Novel Classification Method for Multispectral Imaging Combined with Portable Raman Spectroscopy for the Analysis of a Painting by Vincent Van Gogh, *Applied Spectroscopy*, 2013, 67(11), 1234-1241
doi:10.1366/13-07032
- 2013 F Toja, D Saviello, A Nevin, D Comelli, M Lazzari, G Valentini, L Toniolo, The degradation of poly(vinyl acetate) as a material for design objects: a multi-analytical study of the Cocoon lamps. Part 2, *Polymer Degradation and Stability*, 2013, 98 (11) 2215-2223
doi:10.1016/j.polymdegradstab.2013.08.021
- 2013 A Brambilla, F Fillipidis, A Nevin, D Comelli, G Valentini, D Anglos, Adapting And Testing A Portable Raman Spectrometer for SERS Analysis Of Amino Acids And Small Peptides, *Journal of Molecular Structure*, 2013, 1044, 121-127
doi:10.1016/j.molstruc.2012.12.060
- 2012 F Toja, D Saviello, A Nevin, D Comelli, M Lazzari, M Levi, L Toniolo, The degradation of poly(vinyl acetate) as a material for design objects: A multi-analytical study of the effect of dibutyl phthalate plasticizer. Part 1, *Polymer Degradation and Stability*, 2012, 97 (11): 2441-2448
doi:10.1016/j.bbr.2011.03.031
- 2012 D Comelli, A Nevin, A Brambilla, I Osticioli, G Valentini, L Toniolo, M Fratelli, R Cubeddu, On the discovery of an unusual luminescent pigment in Van Gogh's painting "Les bretonnes et le pardon de pont Aven", *Applied Physics A*, 2012, 106 (1): 25-34
doi: 10.1007/s00339-011-6665-9
- 2012 A Nevin, G Spoto, D Anglos, Laser spectroscopies for elemental and molecular analysis in art and archaeology, *Applied Physics A*, 2012, 106 (2): 339-361,
doi: 10.1007/s00339-011-6699-z
- 2011 L Brambilla, C Riedo, C Baraldi, A Nevin, MC Gamberini, C D'Andrea, O Chiantore, S Goidanich, L Toniolo, Characterization of fresh and aged natural ingredients used in his-

- torical ointments by molecular spectroscopic techniques: IR, Raman and Fluorescence, *Analytical and Bioanalytical Chemistry*, 2011, 401(6):1827-37
doi: 10.1007/s00216-011-5168-z
- 2011 A Brambilla, I Osticioli, A Nevin, D Comelli, C D'Andrea, C Lofrumento, G Valetnini, R Cubeddu, A remote scanning Raman spectrometer for in-situ measurements of works of art, *Reviews in Scientific Instruments*, 2011, 82: 063109-12
doi:10.1063/1.3600565
- 2011 M Thoury, J-P Echard, M Refregiers, B Berrie, A Nevin, F Jamme, L Bertrand, Synchrotron UV-visible multispectral luminescence micro-imaging of historical samples, *Analytical Chemistry*, 2011, 83 (5):1737-1745
doi: 10.1021/ac102986h
- 2011 A Nevin, D Comelli, I Osticioli, G Filippidis, K Melessanaki, G Valentini, R Cubeddu, C Fotakis, Multi-photon excitation fluorescence and third-harmonic generation microscopy measurements combined with confocal Raman microscopy for the analysis of layered samples of varnished oil films, *Applied Physics A* 100(3): 599-606, 2011
doi: 10.1007/s00339-010-5644-x
- 2011 D Comelli, A Nevin, G Valentini, I Osticioli, EM Castellucci, L Toniolo, D Gulotta, R Cubeddu, Insights into Masolino's wall paintings in Castiglione Olona : Advanced reflectance and fluorescence imaging analysis, *Journal of Cultural Heritage*, 12 (1): 11-18, 2011
doi: 10.1016/j.culher.2010.06.003
- 2011 F Toja, A Nevin, D Comelli, M Levi, R Cubeddu, L Toniolo, Fluorescence and Fourier Transform Infrared Spectroscopy for the analysis of iconic Italian design lamps made of polymeric materials, *Analytical and Bioanalytical Chemistry*, 399 (9), 2977-2986, 2011,
doi: 10.1007/s00216-010-4323-2
- 2009 A Nevin, D Comelli, G Valentini, R Cubeddu, Total Synchronous Fluorescence Spectroscopy Combined with Multivariate Analysis: Method for the Classification of Selected Resins, Oils, and Protein-Based Media Used in Paintings, *Analytical Chemistry*, 81(5), 1784-1791
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- 2009 A Nevin, D Comelli, I Osticioli, G Valentini, L Toniolo, R Cubeddu, Assessment of the ageing of triterpenoid paint varnishes using fluorescence, Raman and FTIR spectroscopy, *Analytical Bioanalytical Chemistry*, 395(7), 2139-2149, 2009
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- 2009 A Nevin, JP Echard, M Thoury, D Comelli, G Valentini, R Cubeddu, Excitation emission and time-resolved fluorescence spectroscopy of selected varnishes used in historical musical instruments, *Talanta*, 80(1), 286-293, 2009
doi:10.1016/j.talanta.2009.06.063
- 2009 I Osticioli, N Mendez, A Nevin, A Zoppi, C Lofrumento, M Becucci, E Castellucci, A new compact instrument for Raman, laser-induced breakdown, and laser-induced fluorescence spectroscopy of works of art and their constituent materials, *Reviews in Scientific Instruments*, 80, 076109, 2009
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- 2009 I Osticioli, NFC Mendez, A Nevin, FPSC Gil, E Castellucci, Analysis of natural and artificial Ultramarine Blue pigments using combined Laser Induced Breakdown and Pulsed Raman Spectroscopy, Statistical analysis and light microscopy, *Spectrochimica Acta A*, 73,

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2009

E Bernikola, A Nevin, V Tornari, Real time detection of climate-induced surface movement in wooden panel paintings using digital holographic speckle pattern interferometry, *Applied Physics A*, 95, 2, 387-399, 2009

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- 2009 P Pouli, A Nevin, A Andreotti, MP Colombini, S Georgiou, C Fotakis, Laser assisted removal of synthetic painting-conservation materials using UV radiation of ns and fs pulse duration; morphological studies on model samples, *Applied Surface Science*, 255, 4955-4960, 2009
doi: 10.1016/j.apsusc.2008.12.049
- 2009 C D'Andrea, A Nevin, A Farina, A Bassi, R Cubeddu, Assessment of ambient humidity fluctuations on the moisture content of wood using time-resolved diffuse optical spectroscopy, *Applied Optics*, 48, B87-B93, 2009
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- 2008 V Tornari, E Bernikola, A Nevin, E Kouloumpi, M Doulgeridis, C Fotakis, Fully-Non-Contact Masking-Based Holography Inspection on Dimensionally Responsive Artwork Materials, *Sensors*, 8, 8401-8422, 2008
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- 2008 D Comelli, G Valentini, A Nevin, A Farina, L Toniolo, R Cubeddu, A portable UV-fluorescence multispectral imaging system for the analysis of painted surfaces, *Reviews in Scientific Instruments*, 79, 086112-086115, 2008
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- 2008 C Martin de Fontjaudran, A Nevin, F Piqué, S Cather, Stratigraphic analysis of organic materials in wall painting samples using micro-FTIR Attenuated Total Reflectance and a novel sample preparation technique, *Analytical and Bioanalytical Chemistry*, 392, 77-86, 2008
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- 2008 A Nevin, D Anglos, A Burnstock, S Cather, The influence of visible light and commonly found inorganic pigments on the autofluorescence of egg, casein and collagen-based painting media, *Applied Physics A*, 92 (1), 69-76, 2008
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- 2008 I Osticioli, A Nevin, M Beccucci, D Anglos, A Burnstock, S Cather, E Castellucci, Micro-Raman and Fluorescence spectroscopy for the assessment of the effect of 100 years of indoor light exposure on films of egg white and egg yolk, *Journal of Raman Spectroscopy*, 39(2) 307-313, 2008
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- 2008 J-M Manceau, A Nevin, C Fotakis, S Tzortzakis, Terahertz time domain spectroscopy for the analysis of cultural heritage related Materials, *Applied Physics B*, 90 (3-4), 365-368, 2008
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- 2008 A Nevin, S Cather, A Burnstock, D Anglos, The analysis of protein-based media used in paintings using synchronous fluorescence spectroscopy combined with multivariate statistical analysis, *Applied Spectroscopy*, 62(5), 481-489, 2008
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- 2008 A Nevin, I Osticioli, D Anglos, A Burnstock, S Cather, E Castellucci, The analysis of naturally and artificially-aged protein-based binding media using Raman spectroscopy combined with Principal Component Analysis, *Journal of Raman Spectroscopy*, 39(8) 993-1000, 2008
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- 2008 A Nevin, J Loring Melia, I Osticioli, G Gautier, MP Colombini, The Identification of Copper Oxalates in a 16th Century Cypriot Exterior Wall Painting using Micro FTIR, Micro Raman Spectroscopy and Gas Chromatography Mass Spectrometry, *Journal of Cultural Heritage*, 9(2) 154-161
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- 2007 A Nevin, P Pouli, S Georghiou, C Fotakis, Laser Conservation of art, *Nature Materials*, May 2007, 6, 320-322
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- 2007 A Nevin, D Comelli, G Valentini, D Anglos, A Burnstock, S Cather, R Cubeddu, Time-resolved fluorescence spectroscopy and imaging of proteinaceous binders used in paintings, *Analytical and Bioanalytical Chemistry*, 388(8): 1897-1905
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- 2007 A Nevin, I Osticioli, D Anglos, A Burnstock, S Cather, E Castellucci, Raman spectra of proteinaceous materials used in paintings: A multivariate analytical approach for classification and identification, *Analytical Chemistry*, 79, 6143-6151
doi: 10.1021/aco70373j
- 2006 A Andreotti, MP Colombini, A Nevin, P Pouli, K Melessanaki, C Fotakis, Multi-analytical study of the Laser Pulse Duration Effects in the IR laser-cleaning of Wall Paintings from the Monumental Cemetery of Pisa, *Laser Chemistry*, Article 34046, 11p, 2006,
doi:10.1155/2006/39046
- 2006 A Nevin, D Anglos, Assisted interpretation of Laser Induced Fluorescence Spectra of Egg-based Binding Media using Total Emission Fluorescence Spectroscopy, *Laser Chemistry*, Article 82823, 5p, 2006
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- 2006 A Nevin, D Anglos, S Cather and C Fotakis, Laser Induced fluorescence for the analysis of protein-based binding media, *Analytica Chimica Acta*, 573-574, 341-346, 2006
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SELECTED PUBLICATIONS IN BOOK CHAPTERS

- 2020 S Hecker, A Nevin. "Comparative Visual Examination of Medardo Rosso's Bambino ebreo." Finding Lost Wax: The Disappearance and Recovery of an Ancient Casting Technique and the Experiments of Medardo Rosso. Brill.
- 2020 FC Izzo, A Nevin. "Creative Inconsistencies: Compositional Analysis of Rosso's Waxes." Finding Lost Wax. Brill.
- 2020 L Tonioli, A Nevin. "Industrial Design Objects in the Museum Environment." Science and Art: The Contemporary Painted Surface. Royal Society of Chemistry. 431-451.
- 2018 A Nevin. "Pigment alteration." The encyclopedia of archaeological sciences. 1-4.
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SELECTED PUBLICATIONS IN CONFERENCE PROCEEDINGS

- 2014 A Nevin, S Bellei, R Fontana, F Gabrieli, F Rosi, C Marchese, M d' Ayala Valva, D Kunzelman, E Buzzegoli, M Patti. 2014. Futurist painters– Interdisciplinary research on written

- sources, artists' materials and paintings, ICOM-CC 17th Triennial Conference Preprints, Melbourne, 15–19 September 2014, ed. J. Bridgland, art. 1309, 8 pp. Paris: International Council of Museums.
ISBN: 978-92-9012-410-8
- 2013 F Toja, L Toniolo, A Nevin, D Comelli, M Lazzari, The degradation of cellulose acetate: Advanced analytical tools for non-destructive study of design objects, *Science and Technology for the Conservation of Cultural Heritage*, ed M. Rogerio-Candelerio, M. Lazzari and E. Cano eds, Taylor and Francis Group, London, 2013
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- 2013 A Nevin, A Cesaratto, C D'Andrea, G Valentini, D Comelli, A multi-analytical investigation of semi-conductor pigments with time-resolved spectroscopy and imaging, *SPIE Optical Metrology 2013*, 87900U-87900U-11
- 2011 I Bargigia, C D'Andrea, A Nevin, A Farina, A Pifferi, R Cubeddu, M Orlandi, P Lundin, M Karlsson, G. Somesfalean, S Andersson-Engels, S Svanberg, Time- and wavelength resolved diffuse optical spectroscopy for noninvasive characterization of wood, *Shipwrecks 2011*, ed M Ek
ISBN 978-91-7501-142-4 KTH, Stockholm, 2011
- 2011 M Karlsson, P. Lundin, L. Cocola, G. Somesfalean, S Svanberg, I Bargigia, C. D'Andrea, A. Nevin, A. Farina, A Pifferi, R. Cubeddu, M Orlandi, Non-invasive diagnosis of gasses in wood, *Shipwrecks 2011*, ed M. Ek
ISBN 978-91-7501-142-4 KTH, Stockholm
- 2011 A Nevin, et al. The development of an online methodology for interdisciplinary collaborative Research: Investigations of dispersed paintings by the Master of the Fogg Pietà – Maestro di Figline, *Proceedings of the International Council of Museums and Monuments – Committee for Conservation, Triennial Conference, Lisbon 19-23 September 2011*, 9 pages, 2011.
- 2011 A. Nevin, I. Osticoli, D. Comelli, A. Gallone Galassi, G. Valentini R. Cubeddu. Advances In The Analysis Of Red Lake Pigments From 15th and 16th C. Paintings Using Fluorescence And Raman Spectroscopy, *Art'11 10th International Conference on the non-destructive investigations and microanalysis for the diagnostics and conservation of cultural and environmental heritage*, Florence, April 13-15, 2011, Proceedings CD and online , 6-pages
- 2008 M Elias, C Magnain, C Barthou, A Nevin, D Comelli, G Valentini, UV-fluorescence spectroscopy for identification of varnishes in works of art: influence of the underlayer on the emission spectrum, In: *O3A: Optics for Arts, Architecture, and Archaeology II*, L Pezzati and R Salimbeni, Editors, vol. 7391, 739104x
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- 2008 A Nevin, D Comelli, G Valentini, I Osticoli, D Anglos, A Burnstock, S Cather, R Cubeddu, Recent developments in fluorescence spectroscopy for the analysis of proteins commonly used in paintings, in *Conservation Science 2007*, ed. J Townsend, L Toniolo, F Cappitelli, Archetype Publications, London, 2008.
- 2008 E Bernikola, V Tornari, A Nevin, E Kouloumpi, Monitoring of changes in the surface movement of model panel paintings following fluctuations in Relative Humidity; preliminary results using Digital Holographic Speckle Pattern Interferometry, in *Proceedings of the 7th Lasers in the Conservation of Artworks Conference*, Madrid, September 2007, Taylor and Francis, 2008.

- 2007 A Nevin, I Osticioli, D Anglos, C Fotakis, E Castellucci, Initial results of the ATHENA project at IESL-FORTH, in Proceedings of the 7th European Conference "SAUVEUR" Safeguarded Cultural Heritage Understanding Viability for the Enlarged Europe, 31st May – 3rd June, 2006, Prague, Czech Republic, eds M Drdácý and M Chapuis, 1118-1121, 2007.
- 2007 A Nevin, D Anglos, S Cather, C Fotakis, Laser Induced Fluorescence Analysis of Protein-based Binding Media, Proceedings of the 6th LACONA Conference September 2005, Springer Verlag, Heidelberg, 2007.
- 2006 J Loring Melia, A Nevin, G Gautier, MP Colombini, Cypriot Post-Byzantine Wall Painting Techniques and the Discovery of Mixed Oxalates: Context and Conservation Implications, The Object in Context: Crossing Conservation Boundaries: Contributions to the Munich Congress 28 August – 1 September 2006, 331, 2006.

EDITOR OF PUBLISHED VOLUMES AND SPECIAL ISSUES

- 2020 A Nevin et al, special issue of *Studies in Conservation*, Conservation of Built Heritage: Proceedings of the 2020 IIC Edinburgh Congress, forthcoming
- 2019 A Nevin, M Sawicki, eds, *Heritage Wood: Investigation and Conservation of Art on Wood*, Cultural Heritage Science, Springer, 2019
- 2018 A Nevin, JH Townsend, M Strlic, N Blades, D Thickett JK Atkinson, Special Issue of *Studies in Conservation*, Preventive Conservation: The State of the Art: Proceedings of the 2018 IIC Turin Congress, 63, 1. M Melo, A Nevin and P Baglioni, Special issue of *Pure and Applied Chemistry* devoted to "Chemistry and Cultural Heritage" IUPAC, 2018, doi:10.1515/pac-2018-0106
- 2016 A Nevin and T Doherty, *The Noninvasive Analysis of Painted Surfaces: Scientific Impact and Conservation Practice*, Smithsonian Institution Scholarly Press 2016, doi: 10.5479/si.19492367.5, ISSN: 1949-2367 (online)
- 2016 A Nevin, D Saunders, A Brokerhof, J Townsend, eds. Special Issue of *Studies in Conservation*. Saving the Now: Proceedings of the 2016 IIC Los Angeles Congress, 2016 Supplement, ISSN: 0039-3630
- 2015 P Romano, A Nevin, G Spoto, eds. Virtual Special Issue of *Microchemical Journal* devoted to TECHNART conference, 2015
(<http://www.sciencedirect.com/science/journal/0026265X/vsi>)
- 2015 A Elnaggar, A Nevin, M Castelljo, M Strlič, eds. Proceedings of the LACONA 10 Conference, Sharjah 2014, *Studies in Conservation Supplement 1*, volume 60, Maney, London, 2015
- 2014 J Townsend, S Rivers, B Knight, A Nevin, eds. 2014 IIC Congress - An Unbroken History: Conserving East Asian Works of Art and Heritage, *Studies in Conservation Supplement 1*, volume 59, Maney, London, 2014
- 2012 S Cather, A Nevin, J Townsend, M Spring, J Kirby, D Eastop, eds. *Studies in Conservation Supplement 1*, volume 57: IIC Vienna Congress 2012, Maney, London, 2012
- 2010 R Radvan, P Pouli, A Nevin, M Catellejo, eds. Proceedings of the LACONA 8 Conference, Sibiu, Romania, Bakelma 2010

Chair of International Congresses

- 2020 Chair of the Technical Committee, International Institute of Conservation (IIC) Congress, 2020: Built Heritage Conservation, November 2020, Edinburgh UK
- 2018 Chair of the Technical Committee, International Institute of Conservation (IIC) Congress, 2018: Preventive Conservation, September 2018, Turin, Italy
- 2016 Chair of the Technical Committee, International Institute of Conservation (IIC) Congress, 2016: Conservation of Contemporary Works, September 2016, Los Angeles, USA
- 2015 Co-Chair, TECHNART V – Catania, Italy April 2015
- 2014 Chair of the Technical Committee, International Institute of Conservation (IIC) Congress, Conservation of East Asian Art, 21-25 September 2014, Hong Kong
- 2014 Organiser, LACONA X –Lasers in the Conservation of Artworks, Sharjah, UAE, June 2014

- 2014 Co-Chair, The Non-invasive Analysis of Paintings, Lunder Conservation Center, Smithsonian Institute of Art, Washington D.C. February 2014
- 2013 Co-Chair, Heritage Wood: Research and Conservation in the 21st Century, 28-30 October 2013, Warsaw, Poland

Selected Invited Lectures at International Conferences

- 11/2019 Museum Summit, Hong Kong: From Tutankhamun to the Last Supper: Understanding Objects Through Research and Conservation in Museums
- 08/2019 4th International Turkish Congress on Molecular Spectroscopy (TURCMOS): Material History: Recent Research and New Insights into the Use of Binding Media, Meteoritic Iron and Red Lakes
- 05/2019 30th Anniversary Conference of the Latvian Society of Restorers, Riga: Conservation and Science – Education and Research in the 21st Century
- 03/2018 Italy-Israel Congress, Science for Art Conservation, Tel Aviv: Chemistry and Conservation: Understanding Wall Paintings and their degradation
- 09/2017 International Workshop on Imaging, Varenna, Italy: Photoluminescence microscopy Analysis of semiconductors in paintings
- 02/2017 Art & Science Seminar, Hermitage -IMTO, Saint Petersburg, Russia: Cultural Heritage Science: art and its environment
- 12/2016 2nd International conference on Art & Archaeology, Jerusalem, Israel, Advanced imaging for the study of paintings
- 07/2016 Gordon Research Conference: Scientific Methods in Cultural Heritage Research, Towards Understanding Luminescence of Semiconductor Pigments and their Degradation: Beyond Model Samples
- 02/2016 International Year of Light Closing Ceremony, Merida, Mexico: Photonics for World Heritage: from the analysis of paintings to laser cleaning applications
- 11/2015 From oil paintings to acrylics, from Impressionism to Contemporary Art: Studies, Research, Scientific Survers and Conservative Treatments, CESMAR, Milan, Italy: Advances in the Time-Resolved Imaging of Modern Paintings - Insights into Pigment composition and distribution
- 10/2015 FISMAT Palermo, Italy: The analysis of 19th and 20th century paintings and painting materials using Fluorescence Lifetime Imaging (FLIM) and Time Resolved Fluorescence Spectroscopy
- 11/2014 Eastern Analytical Symposium, Somerset, New Jersey: Advances in the Imaging and Microscopy of Semiconductor Pigments: From Laser-Based Time-Resolved Luminescence Imaging to Micro X-Ray Fluorescence Analysis Using Synchrotron Radiation
- 05/2013 O3A Optics for Art, SPIE Optical Metrology, Munich, Germany: Multi-analytical investigation of semi-conductor pigments with time-resolved spectroscopy and imaging
- 06/2012 APLAR4 Rome, Italy: Tecnologia per il Restauro e aspetti di innovazione scientifica
- 06/2010 Light in the Conservation of Artworks, 14th International Conference - Laser Optics 2010 Saint Petersburg, Russia: Applications of laser-based spectroscopic techniques for the analysis of works of art

- 09/2009 LACONA 8 (Lasers for the Conservation of Artworks), Sibiu, Romania: Laser-based analysis for understanding paintings and painting materials: selected examples and insights
- 07/2009 Seminar on Documentation, ICN, Amsterdam, Netherlands: The Andrew W. Mellon project on the Master of the Fogg Pietá
- 04/2009 Andrew W. Mellon Symposium on Documentation at the Metropolitan Museum of Art, New York, USA: The Master of the Fogg Pietá Maestro di Figline Project
- 11/2008 Workshop on Optical Coherent techniques for structural diagnosis, part of the 8th European Conference on Research for Protection, Conservation and Enhancement of Cultural Heritage, Ljubljana, Slovenia: Conservation and Analysis of Wall paintings: the role of Holographic Interferometry in condition assessment
- 06/2006 Workshop on Lasers in Cultural Heritage, Laser Optics 2006, Saint Petersburg, Russia: Laser applications in the Conservation of Art
- 2006/03 Ferrara Restauro: Colore Negato, Ferrara, 31 March 2006: Occultamento di Dipinti Murali: esempi di colore negato in Inghilterra e Gli Stati Uniti

Academic & Teaching Experience

- 2020 Guest Lecturer in Conservation Science, University of Oslo, Norway
- 2009-2019 Professor (contract), Accademia di Belle Arti di Brera, Milan
 Physics for Conservation (45 hours, annually)
 Scientific Techniques for Conservation (75 hours, annually)
 Analytical methods for Conservation (120 hours, annually)
- 2011-2017 Lecturer, Doctoral Course, Physical Methods for Conservation, Department of Physics, Politecnico di Milano (12-18 hours)
- 2014 Professor (contract)
 Università del Salento, Lecce
 Scientific Techniques for Conservation (25 hours)

PHD SUPERVISION

- 2019-2021 University of Gothenburg
- 2017-2021 University of Malta
- 2017-2020 New University of Lisbon, Portugal
- 2013-2016 Politecnico di Milano

PHD EXAMINATION

- 2020 New University, Lisbon, Portugal
- 2020 The Royal Danish Academy of Fine Arts Schools of Architecture, Design and Conservation, Denmark
- 2018 SACRe (Sciences, arts, création, recherche) de l'Université Paris Sciences Lettres
- 2016 Courtauld Institute of Art, University of London, UK
- 2016 École Doctoral de Sciences et Ingenierie, Université Cergy Pontoise, France

2014 École Doctoral de Physique de Grenoble, Université Joseph Fourier, France
2011 University of Granada, Spain

MA EXAMINATION

2018 Department of Archaeology, University of Fayoum, Egypt
2017 Department of Archaeology, University of Haifa, Israel

TEACHING AND LECTURING ON INTERNATIONAL CONSERVATION COURSES

2016-2020 ITCC Palace Museum, Beijing, China, IIC-ITCC
2020 University of Oslo, Norway
2019 Summer School on Photograph Conservation, CRCC, Paris
2016 - 2019 University of Haifa, Israel
2016 University College London - Qatar, Doha
2015, 2018 New University of Lisbon, Portugal
2012-2014 Grand Egyptian Museum - Centre for Conservation, Cairo, Egypt
2013, 2020 Department of the Built Heritage, Faculty for the Built Environment, University of Malta

Service to the Profession

INTERNATIONAL MEMBERSHIP ORGANIZATIONS

International Institute for the Conservation of Artistic and Historical Works (IIC)
since 2019 Vice President
since 2019 Vice President of the Academic Board of the IIC-ITCC at the Palace Museum, Beijing
since 2012 Council Member & Fellow

International Council of Museums-Committee for Conservation (ICOM-CC)
2014-2017 Assistant Coordinator Scientific Research Working Group/ ICOM-CC
2011-2014 Coordinator Scientific Research Working Group/ ICOM-CC

EDITORIAL BOARD MEMBER

2016-present Studies in Conservation
2011-present International Journal of Spectroscopy
2014-present Springer Cultural Heritage Science Series

ADVISORY BOARD MEMBER

2013-2019 International Advisory Board for the MA in the Conservation of Wall Painting, Courtauld Institute of Art, University of London, UK

2017-present Conseil Scientifique Maison des Sciences de l'Homme et de la Société Sud Est, Université Nice Sophia Antipolis, France

EVALUATION OF INTERNATIONAL PROJECTS

2019, 2020 FED-tWIN, Belgian Ministry of Research
2018 DIM « Matériaux anciens et patrimoniaux » Île-de-France (France)
2017, 2015 NICAS - Netherlands Institute for Conservation, Art and Science (Netherlands)
2017 NWO - Applied and Engineering Sciences (Netherlands)
2014-2015 National Science Foundation (USA)
2014-2017 Evaluation for Italian Ministry of Research and Education (Italy)

PEER REVIEW

Analyst	Journal of Mass Spectrometry
Analytica Chimica Acta	Heritage Science
Analytical Bioanalytical Chemistry	Langmuir
Analytical Chemistry	Magnetic Resonance in Chemistry
Analytical Chemistry Insights	Microchemical Journal
Analytical Methods	Microscopy and Microanalysis
Applied Physics A	Optics Express
Applied Spectroscopy	PLOSone
Archeoscience (French)	Polymer Degradation and Stability
Atomic Spectroscopy	Restaurator
Color Research and Application	Spectrochimica Acta Part A: Molecular and
Chemical Reviews	Biomolecular Spectroscopy
Chinese Optical Letters	Science and Technology of
e-Preservation Science	Archaeological Research
Environmental and Pollution Science	Scientific Reports
Journal of Archaeological Science Reports	Studies in Conservation
Journal of Analytical Atomic	Talanta
Spectroscopy	Vibrational Spectroscopy
Journal of Cultural Heritage	X-ray Spectrometry

Languages

English (mother tongue), Italian (fluent), French (fluent)
Modern Greek (good), German (good)

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