

CURRICULUM VITAE, October 2023

Name and surname Sophia SOTIROPOULOU
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Professional status

Dec. 2022 to present Assistant Professor at the Hellenic Open University (HOU), School of Applied Arts and Sustainable Design & University Faculty Member at FORTH
Jan. 2018 to Dec. 2022 Senior Research Associate at FORTH – Institute of Electronic Structure and Laser (IESL)
1996 to end 2017 Senior researcher at “Ormylia” Foundation - Art Diagnosis Centre (OfADC), 63071 ORMYLIA - CHALKIDIKI – GREECE.
1993 – 1996 Associated researcher at the Institute of Materials Science, Laboratory of Archaeometry, N. C. S. R. “Demokritos”.

Research activities and skills

Extensive research experience in analytical investigations, multidisciplinary studies for the documentation and monitoring of Cultural Heritage objects.

Involved in several cross-analytical approaches applying in a wide variety of objects and respective constituent materials belonging to different contexts mostly around the Mediterranean area from the prehistory to the modern age.

Field of specialization: Interdisciplinary characterisation (including optical, chemical and perceptible properties) of coloured surfaces (panel and canvas paintings, illuminated manuscripts, wall paintings, ceramics and polychrome sculptures).

Optical and spectroscopic methods in different wavelength bands applied in macro and micro scale (X-Radiography, IR-Reflectography, UV-Vis-IR reflectance and luminescence imaging, UV-Vis spectroscopy (and colorimetry), optical / confocal microscopy, microRaman and (micro/macro)FTIR spectroscopies, *in situ* XRF analyses).

Development of resilience strategies and preventive measures for movable heritage based on the exploitation of analytical data to predict, prevent or remediate the impact of environmental agents of deterioration or anthropogenic threats. Integration of analytical and environmental data into the overall management of cultural heritage collections.

Development of analytical protocols and standard procedures for the characterization of Heritage materials and respective metadata models for data management and interoperability. Processing, processes to enhance data quality and enable sharing and reuse of scientific data. Exploration of semantic tools for indexing and retrieval / access of the information. Metadata schemes mapping into CIDOC-CRM (ISO 21127:2006 and extensions) model.

Laboratory management: Hardware and software installation and maintenance of laboratory analytical instruments, set up of new application methods, development and implementation of best practices and analytical protocols.

Thematic entities of experience include: Aegean and East Mediterranean Archaeology with focus on paint materials and painting techniques; ancient polychromy as well as colour application on any substrate in antiquity; byzantine iconographic artworks on different substrates.

Colour constitutes the privileged focus of my research, for its material aspects but also as a fundamental perceptual component of art and of every aesthetic experience, in general.

Multidisciplinary background: Physics, conservation science, archaeological science, and history of art. Significant experience in the participation or coordination of interdisciplinary research teams (involving scientists, engineers, archaeologists, art historians, conservators and collections' curators).

Administrative skills developed in the management of funded research and development projects, as project coordinator or scientific responsible.

Involvement in funded research projects

1. **PERCEIVE** - Perceptive Enhanced Realities of Colored Collections Through AI and Virtual Experiences – HORIZON-CL2-2021-HERITAGE-01 - GA 101061157, (2023-2026)
2. **E-RIHS IP** - European Research Infrastructure for Heritage Science - HORIZON-INFRA-2021-DEV-02, GA 101079148, (2022-2024), <http://www.e-rihs.eu/>
3. **4CH** - Competence Centre on the Conservation of Cultural Heritage, H2020- GA 101004468 (2021-2023), <https://www.4ch-project.eu/>
4. **IPERION-HS** Integrated Platform for the European Research Infrastructure ON Heritage Science, H2020INFRAIA-2019-1, GA No. 871034, (2020 – 2023) <http://iperionhs.netseven.it/>
5. **PROTEAS** - ΠΡΩΤΕΑΣ - Advanced System for collection and management of analytical data for documentation and conservation of large-scale paintings in an open laboratory, ΕΣΠΑ - ΕΡΕΥΝΩΔΗΜΙΟΥΡΓΩ-ΚΑΙΝΟΤΟΜΩ, Α.Π. 5069984, (2020 – 2023)
6. **SpArch** – Spectrochemical Analysis of Archaeological Bio-organic Residues, Ερευνητικό έργο ΕΛ.ΙΔ.Ε.Κ. για την ενίσχυση των μελών ΔΕΠ και Ερευνητών/τριών και την προμήθεια ερευνητικού εξοπλισμού μεγάλης αξίας, Α.Π. 3542, (2020-2022)
7. **SSHOC** - Social Sciences and Humanities Open Cloud, H2020-INFRAEOSC-04-2018, GA 823782, (2019-2022), <https://sshopencloud.eu>
8. **Interreg V-A** "Greece-Cyprus" Programme 2014-2020, ΠΛΟΗΓΟΙ ΨΗΦΙΟΠΟΙΗΣΗΣ ΠΟΛΙΤΙΣΤΙΚΗΣ ΚΛΗΡΟΝΟΜΙΑΣ ΕΚΚΛΗΣΙΩΝ ΚΥΠΡΟΥ ΚΑΙ ΚΡΗΤΗΣ, **ΨΗΦΙΑΚΟ ΑΠΟΣΦΡΑΓΙΣΜΑ ΑΓΙΩΝΥΜΩΝ ΝΗΣΩΝ**, (2018-2021)
9. **HERACLES** – Heritage Resilience Against CLimatic Events on Site - H2020-DRS-2014-2015/H2020-DRS2015, GA 700395, (2016-2019), <http://www.heracles-project.eu/>
10. **E-RIHS PP**- European Research Infrastructure for Heritage Science - H2020-INFRADEV-2016-2, GA 739503, (2017-2020), <http://www.e-rihs.eu/>
11. **PARTHENOS** - Pooling Activities, Resources and Tools for Heritage E-research Networking, Optimization and Synergies, HORIZON 2020 - INFRADEV-4-2014/2015, GA 654119, (2015-2019), <http://www.parthenos-project.eu/>
12. **IPERION CH** - Integrated Platform for the European Research Infrastructure ON Culture Heritage, H2020INFRAIA-2014-2015, GA 654028, (2015-2019), <http://www.iperionch.eu/>
13. **Technology of early cycladic marble**, INSTAP granted research project, coordinated by the National Archaeological Museum of Athens, (2016-2018)
14. **Surgical Excavation - Tomographic documentation in time and in place of archaeological excavations using micro-to-meter-level "tomography"** for specialized research and wide-audience education purposes - Τομογραφική τεκμηρίωση στο χρόνο και στο χώρο των αρχαιολογικών ανασκαφών με τη χρήση "τομογραφίας" με ανάλυση από μικρόμετρο μέχρι μέτρο για εξειδικευμένη έρευνα και εκπαιδευτικούς σκοπούς ευρέως κοινού, ΔΡΑΣΗ ΕΘΝΙΚΗΣ ΕΜΒΕΛΕΙΑΣ - «ΣΥΝΕΡΓΑΣΙΑ 2011» - SurgicalExcavation 11/Κωδ.848, (2014-2016), <http://www.surgicalexcavation.gr>
15. **CHARISMA** - Cultural Heritage Advanced Research Infrastructures: Synergy for a Multidisciplinary Approach to Conservation/Restoration, FP 7 Project co-funded by the European Commission within the action 'Research Infrastructures' of the 'Capacities' Programme , www.charismaproject.eu, - GA FP7

- 228330, (2009-2014) (Role: Scientific responsible for OfADC and development of joint research activities)
16. **The painting techniques in the wall paintings of Akrotiri, Thera. Detection and identification of organic binding media – A pilot study.** INSTAP granted research project, (2012-2014) (Role: Coordinator)
 17. **Colouring matters dating to the third and second millennium BC, stored at the Archaeological Museum of Athens. Investigation of the composition, provenance, technology of manufacture and function.** INSTAP granted research project, (2011-2012) (Role: Coordinator)
 18. **EU-ARTECH** - Access Research and Technology for the conservation of the European Cultural Heritage, **RII3-CT-2004-506171**, www.eu-artech.org, (2004-2009) (Role: Scientific responsible for OfADC and development of joint research activities)
 19. **MED-COLOUR-TECH** - Investigation, Revival and Optimisation of Traditional Mediterranean Colouring Technology for the Conservation of the Cultural Heritage, FP6-2003-INCO-MPC-015406, www.medcolourtech.org, (2006-2009) (Role: development and application of analytical methodologies)
 20. **INFRARTSONIC** - Development of a novel and integrated portable non destructive analysis system for the documentation of artworks» FP6-2003-INCO-MPC- 015338, www.infrartsonic.org, (2006-2009) (Role: development and application of analytical methodologies)
 21. **FING-ART-PRINT** - Fingerprinting Art and Cultural heritage - *In Situ* 3D Non-Contact Microscale Documentation and Identification of Paintings and Polychrome Objects FP6-2004-SSP-4 -022453, www.fingartprint.gr, (2005-2008) (Role: Scientific responsible for OfADC and development of analytical methodology)
 22. **Development of a non-invasive technique for the study and preservation of natural colouring techniques in cultural heritage objects.** UV – Vis fluorescence image screening and spectroscopic investigation of dyestuffs and lakes. Italy/Greece - JOINT R&T PROGRAMMES 2005-2007, (2007-2008) (Role: Coordinator)
 23. **Colouring materials and tools in Akrotiri - Thera.** Provenance and application techniques. INSTAP granted research project, (2006-2010) (Role: Coordinator)
 24. **«AKMON»** Developing Research Infrastructures: Development of a platform for the retrieval of multimedia and scientific information of artworks targeting to the creation of multimedia presentations for electronic publishing, www.annunciation.gr (2006-2008) (Role: development of ontology and organization of metadata)
 25. **«EIKONOgnosia»** Knowledge management and access to the scientific conservation science data and metadata for the documentation of Byzantine artworks using ontological tools for indexing and retrieving of the information, (2006-2008) (Role: development of ontology and organization of metadata)
 26. **ARTEF@CT:** Generic platform for the creation of interactive art experience in mixed reality, IST-2001 37924 project (2002-2004). (Role: development of application scenario)
 27. **LabSTECH**, Laboratories on Science and Technology for the conservation of European Cultural Heritage, EU – FP5 HUMAN POTENTIAL Project HPRI-CT-2000-40018 (2001-2003) (Role: Scientific responsible for OfADC)
 28. **"Natural Colouring Lakes in Europe"**, Culture 2000 Framework Programme (2000-2001).
 29. **"European Network for the Promotion and Development of Diagnostic Techniques and Technologies for the Study, Research and Conservation of Icons"** (Granted Network for Cultural Development Projects– Ref: 98/034155), (1998-1999).

Teaching experience

- 2011-to present: Teaching as Assistant Module Coordinator (AMC) at the Hellenic Open University (HOU): module "General Principles of Light" SFP 51 - Postgraduate course "Lighting Design and Multimedia - School of Applied Arts.
- 2010 to 2020: Teaching in the postgraduate program of AUTH: Protection, Conservation and Restoration of Monuments of Culture / DIRECTION B: Protection, Conservation and Restoration of art objects and mechanisms. "The contribution of colour science in the measurement and documentation of the colour in paintings and illustrated historical monuments" Course code: B 3.7, 12 hours

2009-2010: Teaching according to the Article 15 of Law 3432/2006 (Government Gazette 14A) at the University Ecclesiastical Academy of Thessaloniki, Department of Management and Conservation of Ecclesiastical Cultural Heritage Objects, course of the 5th Semester: "Colour as matter and symbol in ecclesiastical cultural heritage objects " , (30 hours)

1998 – 2017: Laboratory courses' tutor at the Interdepartmental Postgraduate Course of the Aristotle University of Thessaloniki: Protection of Monuments, Sites and Complexes.

February 2014 Erasmus teaching mobility in Escola Superior de Artes e Design, Porto, Portugal

March 2015 Erasmus + teaching mobility at Hochschule Wismar, Faculty of Architecture, Wismar, Germany

Master thesis supervision

Καλλινίκου Ευγενία, «Σχεδιασμός φωτισμού σχολικών κτιρίων με ανθρωποκεντρική προσέγγιση», ΕΑΠ 2022
Τσιόπτσιας Ιωάννης, «Η χρήση Φωτογραμμετρίας στην τρισδιάστατη μοντελοποίηση μουσειακών εκθεμάτων.

Ο ρόλος του φωτισμού στην ποιότητα του αποτελέσματος», ΕΑΠ 2020

Αννίνου Δήμητρα, «Η τέχνη και η επιστήμη του χρώματος στον θεατρικό φωτισμό. Εξέλιξη της αισθητικής και της τεχνολογίας», ΕΑΠ 2020.

Βελαώρα Παρασκευή, Διακοσμήτρια ΑΤΕΙ, «Το χρώμα στο σχεδιασμό οικιακού φωτισμού. Φυσιολογία- ψυχολογία- αισθητική- τεχνολογία», ΕΑΠ 2019.

Νουρεντίνη Ίρις, Διακοσμήτρια ΑΤΕΙ, «Το χρώμα στο σχεδιασμό φωτισμού αστικού πρασίνου», ΕΑΠ 2019.

Πάρπα Μαρία, Αρχιτέκτων, «Σχεδιασμός φωτισμού σπηλαίων. Μελέτη περίπτωσης: τα σπήλαια της Πάφου (Θαλασσινές Σπηλιές Πέγειας), μνημείο φυσικής ομορφιάς», ΕΑΠ 2018.

Τζώρτζη Μαρία, Αρχιτέκτων ΕΜΠ, «Η επίδραση της θερμοκρασίας χρώματος των τεχνητών πηγών φωτισμού στη χρωματική απόδοση των έργων τέχνης», ΕΑΠ 2017.

Δραγατάκη Φωτεινή, Διακοσμήτρια ΑΤΕΙ, «Επανάχρηση ιστορικών δημόσιων κτηρίων: ο ρόλος του φωτισμού στη σύνδεση του χθες με το σήμερα στην περίπτωση της Αίγινας», ΕΑΠ 2017.

Νικολή Ευαγγελία, Αρχαιολόγος, «Φυσικοχημικός χαρακτηρισμός και τεχνολογία κατασκευής των κονιαμάτων στον Προϊστορικό οικισμό του Ακρωτηρίου Θήρας: Η περίπτωση του κτιρίου της Ξεστής 3», ΑΠΘ 2016.

Παπαγεωργίου Σπύρος, Ηλεκτρολόγος ΑΤΕΙ, Σχεδιασμός φωτισμού κτιριακών εγκαταστάσεων ερευνητικού ινστιτούτου, ΕΑΠ 2016.

Κωβαίος Γεώργιος, Ηλεκτρολόγος ΑΤΕΙ, Φωτεινές πηγές LED: Παράγοντες που επηρεάζουν την ποιότητα φωτισμού και μέθοδοι αξιολόγησής τους, ΕΑΠ 2016.

Κυριακίδη Φωτεινή, Ηλεκτρολόγος ΑΤΕΙ, «Η Πρόοδος του Σχεδιασμού Φωτισμού Έναντι των Σύγχρονων Εξελίξεων της Τεχνολογίας Φωτισμού. Ανεξάρτητοι ή Αλληλεπιδρούμενοι Δρόμοι;», ΕΑΠ 2016.

Τζίμου Ευρύκλεια, Διακοσμήτρια ΑΤΕΙ, «Από το σκηνικό φωτισμό στο σχεδιασμό φωτισμού εσωτερικών χώρων», ΕΑΠ 2015.

Σουγιουλτζή Αικατερίνη, Διακοσμήτρια ΑΤΕΙ, «Θεωρίες του χρώματος και καλλιτεχνική δημιουργία», ΕΑΠ 2015.

Χάμψας Γεώργιος, Ηλεκτρολόγος Μηχανικός ΕΜΠ, «Έρευνα Εναλλακτικών Φωτεινών Πηγών και Φωτιστικών Σωμάτων Τεχνολογίας LED για Εφαρμογές Διαγνωστικών Απεικονιστικών Τεχνικών σε Έργα Τέχνης», ΕΑΠ, 2015.

Τριανταφυλλίδου Φωτεινή, Αρχιτέκτων Μηχανικός Δημοκρίτειο Πανεπιστήμιο Θράκης, «Φωτορρύπανση στις σύγχρονες πόλεις», ΕΑΠ 2014.

Βασιλειάδης Αριστοτέλης, Ηλεκτρολόγος Μηχανικός ΑΠΘ, «Η χρήση προϊόντων LED στο φωτισμό πινακοθηκών και μουσειακών εκθεμάτων», ΕΑΠ 2014.

Πετκάκη Φωτεινή, Ηλεκτρολόγος Μηχανικός ΑΠΘ, «Σχεδιασμός ελεγχόμενου τεχνητού φωτισμού για την ανάδειξη και ταυτόχρονη προστασία μουσειακών εκθεμάτων.», ΕΑΠ 2013.

Καραμάνη Αντιγόνη, Γραφίστρια ΑΤΕΙ, «Σύγχρονες τεχνολογίες αναπαραγωγής χρώματος και η εφαρμογή τους για την ενδυνάμωση των βασικών αρχών του Branding.», ΕΑΠ 2013.

Βλαχάκης Γεώργιος, Ζωγράφος ΑΠΘ, «Το χρώμα ως συνιστώσα του μακροσκοπικού ελέγχου της αυθεντικότητας ενός έργου ζωγραφικής τέχνης. Ανάπτυξη μεθοδολογίας τεκμηρίωσης.», ΑΠΘ 2008.

Σπυριδέλη Μαρία, Αρχιτέκτων Μηχανικός ΑΠΘ, «Συστηματοποίηση και επιστημονική ερμηνεία των μετρήσεων των οπτικών ιδιοτήτων και αισθητικών στοιχείων που συνθέτουν τη χρωματική αρμονία στη ζωγραφική: μια διεπιστημονική προ- σέγγιση των έργων τέχνης», ΑΠΘ 2004.

Καρόγλου Μαρία, Χημικός Μηχανικός ΕΜΠ, «Βελτιστοποίηση της μέτρησης χρώματος των ζωγραφικών έργων τέχνης μέσω αντιστρεπτής έγχρωμης φωτογραφικής διαφάνειας», ΕΜΠ 1997.

Studies

- Diploma of Physics, Physics Department, School of Sciences, University of Athens (1991)
- D.E.U.G. History of Art - University of NANTERRE - PARIS X University (1992)
- D.E.S.S.- University of BORDEAUX I, "Méthodes Physiques en Archéologie et Muséographie" / D.E.A. - University of BORDEAUX III, "Histoire, Civilisation: Archéologie des mondes antiques" (1993) *Post graduate research work in C.R.I.A.A.. Subject: « Bleu Egyptien: Synthèse de monochristaux de cuprorivaite $CaCuSi_4O_{10}$ et caractérisation. Dynamique de croissance et luminescence».*
- PhD, National Technical University of Athens, Department of Chemical Engineering, Section of Materials Science (2000) *PhD Thesis. Subject: "An optimization study of colour measurements on painted art works through the use of a non-destructive methodology."*
- A **scholarship** was awarded by the BORDEAUX III University for the D.E.A. academic year (September 1992 to June 1993).

Other Scientific activities or training

- Acting as International expert appointed for the evaluation and selection process for the two Calls (2018 – 2019) for Applications of the PhD Programme "PhD Technology Driven Sciences: Technologies for Cultural Heritage (T4C)" of the University of Torino, H2020-MSCA-COFUND - No 754511, <https://tech4culture.unito.it/>
- Chair of the international "Twelfth Infrared and Raman Users Group (IRUG) Conference", hosted by the Ormylia Foundation, May 23-25, 2016 <http://www.irug12-ormylia.gr/>, www.irug.org.
- Erasmus Staff training on Lighting Technologies, at the Technische Hochschule Nuernberg, Germany (Hosted by Prof. H. Poisel) April 2013
- ISO 17025: Practical applications and approach, specialized training course, Hellenic Institute of metrology, 23/06/2011
- COST Joint Training School: Wood Cultural Heritage Conservation: Advanced X-ray and Optical Techniques. (Cost Action IE0601 "wood Science for Conservation of Cultural Heritage", Cost Action MP0601 "Short Wavelength Laboratory Sources"), 16-20 May 2011
- Training and research work in the Wall paintings workshop at the Excavation at Akrotiri on Thera, Greece (one month, summer 1993)
- Training and research work in the Wall paintings workshop at the Excavation at Akrotiri on Thera, Greece (one month, summer 1993)
- Associated scientist at the Excavation at Akrotiri on Thera, Greece (1993 to date)
- Participation to the 1st "Advanced Physics Summer School", University of Crete, (July 1989).

Language skills

Greek (native), English (proficient), French (fluent), Italian and Spanish (basic knowledge).

Hobbies and interests

Outdoor activities (Mountain hiking, skiing, climbing, swimming). Music. Perception and art.

Publications

I. Monographs or Book chapters

1. Brecoulaki, H., Sotiropoulou, S., Perdikatsis, V., Lluveras-Tenorio, A., Bonaduce, I., & Colombini, M. (2017). Appendix A.: A Technological Investigation of the Painting Materials. In Tournavitou I. (Author), *The Wall Paintings of the West House at Mycenae* (pp. 147-158). Philadelphia, Pennsylvania: INSTAP Academic Press.
2. Bassiakos, Y., Apostolaki, Chr., Perdikatsis, V., Sotiropoulou, S., (2017), Technological observations based on the analyses of metal and steatite finds from the EMI Gournes Cemetery, chapter 7.2, in Galanaki, C. (Editor) *Gournes, Pediada. I. The EMI Cemetery. II. The Minoan Building*, under publication Philadelphia, Pennsylvania: INSTAP Academic Press.
3. Σωτηροπούλου Σ., Η Φυσιολογία της Οπτικής Αντίληψης και το Φως, Τόμος ΕΑΠ 2014.
4. Sotiropoulou S., Sister Daniilia, X-Radiography in Scientific Examination for the Investigation of Paintings: A Handbook for Conservators-restorers, *D. Pinna; M. Galeotti, R.Mazzeo,(Eds.), Centro Di, 2009.*
5. S. Sotiropoulou and I. Karapanagiotis, *Conchylilian Purple Investigation in Prehistoric Wall Paintings of the Aegean Area*, In, "Indirubin, the Red Shade of Indigo", Chapter 7, Edited by L. Meijer, N. Guyard, A. -L. Skaltsounis and G. Eisenbrand, Life in Progress Editions, Roscoff, France, (2006) pp. 71-78.
6. Μοναχή Δανιηλία, Κ.Σ. Ανδρικόπουλος, Σ. Σωτηροπούλου και Ι. Καραπαναγιώτης *Μελέτη της Τεχνικής της «Βάπτισης του Χριστού» του Δομήνικου Θεοτοκόπουλου με Εφαρμογή Αναλυτικών Μεθόδων Διάγνωσης*, Μουσείο Μπενάκη 2005, **5**, 115-134.
7. Sister Daniilia, S. Sotiropoulou, D. Bikiaris, C. Salpistis, G. Karagiannis, Y. Chryssoulakis, Diagnostic Methodology for the examination of Byzantine frescoes and icons. Non-destructive investigation and pigment identification, in *Non-Destructive Microanalysis of Cultural Heritage Materials*, Volume XLII, K. Janssens and R. Van Grieken (eds), Elsevier B. V., Amsterdam (2004) pp. 565-604.
8. Μοναχή Δανιηλία, Κ.Σ. Ανδρικόπουλος, Σοφία Σωτηροπούλου, Τα μυστικά της Τεχνικής των Αντιβόλων, στο *Εκ Χιονιάδων... Σπουδές και αντίβολα*, Δημοτικό Κέντρο Ιστορίας και Τεκμηρίωσης Βόλου, Βόλος (2004) 218-233.
9. Χρυσικοπούλου Ε., Σωτηροπούλου Σ.. Το ιώδες στην παλέτα του Θηραίου Ζωγράφου, Βλαχόπουλος Α. και Μπίρταχα Κ. (επιμέλεια), *Αργοναύτης: Τιμητικός τόμος για τον καθηγητή Χρίστο Γ. Ντούμα*, Αθήνα (2003) σελ. 490-504.
10. Σωτηροπούλου Σ., Αριστοποίηση της μέτρησης χρώματος στα ζωγραφικά έργα τέχνης με τη βοήθεια μη καταστρεπτικών τεχνικών/*An optimization study of colour measurements on painted art works through the use of a non-destructive methodology*, National Technical University of Athens, Department of Chemical Engineering, Section of Materials Science (2000) PhD Thesis (in Greek)
11. Sotiropoulou S. and Renaud Y., Bleu Egyptien: Synthèse de monochristaux de cuprorivaite $\text{CaCuSi}_4\text{O}_{10}$ et caractérisation. Dynamique de croissance et luminescence, D.E.A.-BORDEAUX III "Histoire, Civilisation: Archéologie des mondes antiques". / Μεταπτυχιακό D.E.S.S.-BORDEAUX I "Méthodes Physiques en Archéologie et Muséographie" (1993) Master Thesis (in French)
12. Γ. ΧΡΥΣΟΥΛΑΚΗΣ, Σ. ΣΩΤΗΡΟΠΟΥΛΟΥ
«Η συμβολή της επιστήμης του χρώματος στη χρωματομετρική μελέτη των ζωγραφικών έργων τέχνης και των εικονογραφημένων ιστορικών μνημείων».
Διδακτικές σημειώσεις μαθήματος του διατμηματικού μεταπτυχιακού προγράμματος του ΑΠΘ: Προστασία, συντήρηση και αποκατάσταση έργων τέχνης και μηχανισμών (Σεπτέμβριος 1998).

II. Peer reviewed papers

1. Madias, E.N., Christodoulou, K., Androvitsaneas, V., Skalkou, A., Sotiropoulou, S., Zervas, E., Doulos, L. The effect of artificial lighting on both biophilic and human-centric design, *Journal of Building Engineering* **76** (2023) 107292, <https://doi.org/10.1016/j.jobbe.2023.107292>
2. Sotiropoulou, S.; Karapanagiotis, I.; Andrikopoulos, K.S.; Marketou, T.; Birtacha, K.; Marthari, M. Review and New Evidence on the Molluscan Purple Pigment Used in the Early Late Bronze Age Aegean Wall Paintings. *Heritage* **4** (2021) 171-187, <https://doi.org/10.3390/heritage4010010>
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III. Papers in Conferences Proceedings

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2. Hariclia Brecolouki, Sophia Sotiropoulou, Vicky Kantarelou and Ioannis Melianos, Colours and Pigments in the Miniatures of the Illuminated 'Book of Job' at the Monastery of St John the Theologian, Patmos, in Manuscripts in the Making, Art and Science - Volume one, S. Panayotova, P. Ricciardi (eds.), Papers delivered at the international Conference held in Cambridge in December 2016 to mark the end of the Fitzwilliam Museum's acclaimed bicentenary exhibition COLOUR: THE ART AND SCIENCE OF ILLUMINATED MANUSCRIPTS, 2017, ISBN: 978-1-909400-10-8, pp. 156-169.
3. Panagiotis Angelidis, Evangelia Kalambouki, Sophia Sotiropoulou, Manolis Hamawi, The Preliminary Designs in the Akrotiri Wall-paintings, Vlachopoulos, A. (ed.) Proceedings of the International Conference ΧΡΩΣΤΗΡΕΣ. Η Τοιχογραφία και η Αγγειογραφία της 2ης χιλιετίας π.Χ. σε Διάλογο / PAINTBRUSHES. Wall-Painting and Vase-Painting of the 2nd millennium BC in dialogue. Ακρωτήρι Θήρας, 24-26.5.2013 / Akrotiri, Thera, 24-26.5.2013, 2017, pp. 358-369.
4. I. Karapanagiotis, S. Sotiropoulou, E. Chryssikopoulou, P. Magiatis, K.S. Andrikopoulos, Y. Chryssoulakis, Investigation of Tyrian purple occurring in prehistoric wall paintings of Thera. In The Diversity of Dyes in History & Archaeology; Kirby, J., Ed.; Archetype Publications: London, UK, 2017, pp. 82–89.
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13. Σ. Σωτηροπούλου, Αδελφή Δανιηλία, Δ. Μπικιάρης, Γ. Χρυσουλάκης, Εκτενής μελέτη εικόνας με το Γενέσιο του Προδρόμου (β' μισό του 15 ου αι.) με μη καταστρεπτικές και μικροφασματοσκοπικές τεχνικές, στο *Διεθνές Συμπόσιο Βυζαντινές εικόνες: Τέχνη, Τεχνική και Τεχνολογία, Γεννάδιος Βιβλιοθήκη, 20-21 Φεβρουαρίου 1998*, Μαρία Βασιλάκη (Επ.), Πανεπιστημιακές Εκδόσεις Κρήτης, Ηράκλειο (2002) 247-260.

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IV. Other Scientific Publications

1. Joseph Padfield, Sophia Sotiropoulou, Wolfgang Schmidle, & Wim Fremout. (2022). E-RIHS Heritage Science Interoperability (v0.1-beta). Zenodo. <https://doi.org/10.5281/zenodo.7221156>
2. Padfield, J., Fremout, W., Schmidle, W., & Sotiropoulou, S. (2022). Interim report on documentation of instrument parameters and analysis protocols across access platforms, and metadata requirements (1.2). Zenodo. <https://doi.org/10.5281/zenodo.7101169>
3. Sotiropoulou, S., Anglos, D., Castillejo, M., Corns, A., Gibson, A., Makridaki, M., Vopalensky, M. E-RIHS PP D.9.4 Innovation Agenda (Version 2.0), 2020, DOI: 10.5281/zenodo.4288894
4. Tehan, M.; Corns, A.; Anglos, D.; Vopálenský, M. & Sotiropoulou, S., E-RIHS PP D9.2 Analysis of innovation background (Version 1.0), 2020, DOI: 10.5281/zenodo.3946249
5. Romary, L.; Riondet, C.; Tadjou, L.; Sotiropoulou, S.; Seillier, D., PARTHENOS D4.4 Report on Standardization – Final, 2019, DOI: 10.5281/zenodo.2607014

V. Invited lectures or talks

1. Analytical Approach to Cultural Heritage Polychromy: Light and Colour, The 26th Symposium of the International Colour Vision Society (ICVS), July 1-5, 2022, Heraklion, Greece
2. Rhodian purple dye: Evidence from the prehistoric settlement at Trianda and the ancient town of Rhodes, Dodecanese, in *The materiality of purple dye production and use in Cyprus and the Aegean from Prehistory*

to the Late Roman period at the Archaeological Research Unit (ARU), University of Cyprus, Nicosia, 1-2 November 2019, <https://www.archaeology.wiki/blog/2019/04/19/the-materiality-of-purple-dye-production-and-use-in-cyprus-and-the-aegean/>

3. Colour perception, Physiology and mechanisms of Vision. Lecture in the framework of Module 01 – Colour: Science and Technology, Master course (90 ECTS) – “Conservation of Cultural Heritage”, University of West Attica, Department of Conservation of Antiquities and Works of Art, (2018, 2019)
4. Light and color in the Byzantine Icons. Investigation of the evolution of aesthetics and painting techniques through analytical methods, International Symposium, Byzantium and Russia: Icons, Art and Technology, 9-10 March 2017, Tretyakov Gallery, Moscow
5. Aspects of the original appearance to be considered in a cleaning and conservation strategy of paintings, course in OPTO-CH POLITEIA workshops, 2015, 2016, 2017, IESL-FORTH, Heraklion, Crete, Greece
6. Lighting enhancing visual experience. Colour perception and rendering. *Erasmus + teaching mobility project, at the Faculty of Architecture of Wismar, Germany, 15-20 /03/2015.*
7. Towards a Reconstruction of the Technology and the Original Appearance of Ancient Wall paintings based on Laboratory Analysis in *NARNIA Workshop: Research, Recovery, Revival. From analysis and laboratory experiments to full scale reproduction of archaeological artefacts, THETIS, Athens, 28-30 April 2014*
8. Colour Perception and Lighting, Metrics for assessing the quality of lighting in the colour rendering, course in *LiDe IP- Erasmus Programme, 24 June – 5 July 2013, Athens, Greece.*
9. High quality colour display on digital media, course in *MEDIAPRO IP-Erasmus Programme, 20 - 31 August 2012, Institute for Print Technology, Berner Fachhochschule-BFH, Burgdorf, Switzerland.*
10. Analytical approach to the tradition and evolution of painting techniques in icons: The case of Greek icons, *S.Sotiropoulou* and Sister Daniilia, in *MATCONS 2011 (Matter and Materials in/for Heritage Conservation), 24-28 August 2011, Craiova, Romania.*
11. FINGARTPRINT: A system for the non-contact 'fingerprinting' of objects of art and cultural heritage, in *“Witness the past”: Education Programs for the Public and Culture Heritage Professionals on Illicit Trafficking of Antiquities” (Project 160674-CU-1-2009-1-GR-CULTURE-VOL13), February 18, 2010, Amphitheatre of the Benaki Museum.*
12. Analytical approach of colour in the painting or the decoration of ancient monuments: Detection, characterisation and investigation of provenance of the colour matters through analytical methods, in: *Les arts de la couleur en Grèce ancienne. Productions antiques, reproductions modernes et contemporaines. International Conference, 23 - 25 avril 2009, École française d'Athènes, Athens.*
13. Materials aspects of Byzantine icons: analytical approach to the tradition and evolution of the Byzantine Art through the characterization of pigments and paintings techniques, *S.Sotiropoulou* and Sister Daniilia, in *E-MRS (European Materials Research Society) Spring Meeting 2009 Symposium S: Precise Processing of Materials, Art Diagnostics, Characterization, Identification & Restoration, 8-12 June 2009, Congress Center - Strasbourg, France*
14. Αναλυτική μελέτη της τεχνικής των τοιχογραφιών του Αγίου Ευθυμίου, Παρεκκλησίου του Ι.Ν. Αγίου Δημητρίου Θεσσαλονίκης με επί τόπου εφαρμογή μη καταστρεπτικής μεθοδολογίας, *Σεμινάριο "Η χρήση των πυρηνικών τεχνικών στην προστασία της πολιτιστικής κληρονομιάς", στα πλαίσια του προγράμματος RER/1/006 "Nuclear Techniques for the Protection of Cultural Heritage Artefacts in the Mediterranean Region" του διεθνούς οργανισμού ατομικής ενέργειας, 20-22 Οκτωβρίου 2008, ΕΚΕΦΕ "Δημόκριτος", Αθήνα.*
15. Analytical strategies for natural dyestuffs and organic pigments' investigation in Cultural Heritage objects, in *Eu-ARTECH International meeting on Science and Technology for Cultural Heritage, 7-10 February 2007, La Havana, Cuba.*
16. Colour analysis following styles' and techniques' evolution of Byzantine icons throughout the centuries, *S. Sotiropoulou*, Sister Daniilia, K. Andrikopoulos and I. Karapanagiotis, in *COST ACTION G8 - Nondestructive analysis and testing of museum objects, Final Workshop, 18-20 May 2006, Nicosia, Cyprus.*

17. Conchylian purple investigation in prehistoric wall paintings of the Aegean area, *invited lecture, 22nd February 2006, American School, The American School of Classical Studies (ASCSA), Athens.*
18. Conchylian purple investigation in prehistoric wall paintings of the Aegean area, S. Sotiropoulou, and I. Karapanagiotis in: *Indirubin, the red shade of indigo, international conference, April 8-13, 2006, Perigueux, France.*