

Teresa Palomar, PhD

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https://www.researchgate.net/profile/Teresa_Palomar

• Education

- 09/16 **MSc.** on Diagnosis of the state of preservation of the Historical Heritage (Pablo de Olavide University, Spain). MSc. thesis titled: *Assessment of cleaning procedures for the conservation of cultural heritage in lead*.
- 04/13 **PhD.** Apto Cum Laude (Autonoma University of Madrid, Spain). PhD these title: *The interaction of historical glasses with atmospheric, aquatic and burial environments*.
- 09/09 **Diploma of Advanced Studies (equivalent to MSc.)** (Autonoma University of Madrid, Spain) DEA thesis titled: *Electrochemical characterization of glass materials: Application to lead determination in historical glasses*.
- 06/07 **BSc. Chemistry** (Autonoma University of Madrid, Spain)

General Indicators of Quality of Scientific Production

- 25 peer reviewed articles in JCR publications with 61 citations (RID)
- Participant in 16 R&D Projects with European (H2020), National and Regional funding, 3 as scientist in charge
- Total number of articles in Q1: 12; Q2: 9, Q3: 3, Q4: 0 (Scopus)
- Professor in 5 official teaching activities and advisor of 1 PhD student, 1 MSc student and 6 subject projects
- H index: 4

• Current Positions

- 09/18 – Present ComFuturo Postdoctoral researcher, Institute of Ceramic and Glass (CSIC)

• Previous Positions

- 02/16 – 08/18 Postdoctoral researcher (Fundação para a Ciência e a Tecnologia Fellowship) (Caparica, Portugal)
- 10/13 - 12/15 Manager of the Spanish Observatory of Cultural Heritage Conservation Research: www.investigacionenconservacion.es, National Centre for Metallurgical Research (CENIM-CSIC) (Madrid, Spain)
- 10/13 - 07/15 Professor of the Higher Education Institution of Glass, Spanish Glass Foundation (Segovia, Spain)
- 01/09 - 12/12 Spanish FPU Research Fellowship, Institute of History (CCHS-CSIC)
- 11/08 - 12/08 Fellowship Starting in Post-graduated Programs, Department of Analytical Chemistry, Autonoma University of Madrid (Spain)
- 03/08 - 08/08 Research Contract, Institute of History (CCHS-CSIC)
- 09/07 - 12/07 Fellowship Introduction to Research, Institute of Ceramic and Glass (CSIC)

• Participation in R&D Projects (Scientist in charge 2/15)

- 2018/21 La enfermedad del vidrio: Causas, Efectos y Tratamientos (EnViCET). Funded by ComFuturo call (private-public commitment to science and the future), launched by CSIC Foundation. Scientist in charge. 159.000 €
- 2017/17 Assessment of the Art Nouveau glass windows from the Casa-Museu Dr. Anastácio Gonçalves (Portugal) Ref. CMAG-GLASS. Funded by Access to Research Infrastructures activity in the H2020 Programme of the EU (IPERION CH Grant Agreement n. 654028). Scientist in charge. FREE TRAVEL AND MAINTAINANCE OF 7 PERSONS AND 4 EQUIPMENTS DURING 4 DAYS
- 2016/18 Influence of marine environment on stained glass windows Ref. SFRH/BPD/108403/2015. Funded by Portuguese Science and Technology Foundation. Scientist in charge. 47.000 €
- 2015/19 Integrated Platform for the European Research Infrastructure on Cultural Heritage (IPERION-CH) Ref. H2020-INFRAIA-2014-2015. Funded by European Commission. HORIZON 2020.
- 2015/19 Pooling Activities, Resources and Tools for Heritage E-research Networking Optimization and Synergies (PARTHENOS) Ref. H2020-INFRADEV-1-2014-1. Funded by European Commission. HORIZON 2020.
- 2015/17 Conservation-Restoration of metallic Cultural Heritage by electrochemical techniques: research and application Ref. HAR2014-54893-R. Funded by Spanish Economy and Competitiveness Ministry.

- 2014/17 Technology and Conservation of Geomaterials from the Heritage Ref. S2013/MIT-2914. Funded by Community of Madrid Government.
- 2013/15 Glass and ceramic for the arts Ref. UID/EAT/00729/2013. Funded by Portuguese Science and Technology Foundation.
- 2012/15 Observatory for the promotion of the research in conservation of Cultural Heritage Ref. HAR2011-13664-E. Funded by Spanish Science and Innovation Ministry.
- 2012/14 Conservation-Restoration of metallic Cultural Heritage by electrochemical techniques Ref. HAR2011-22402. Funded by Spanish Science and Innovation Ministry.
- 2010/13 Durability and conservation of geomaterials of built heritage Ref. S2009/MAT-1629. Funded by Community of Madrid Government.
- 2009/12 Direct electrochemical analysis of metals in solid samples of environmental interest using sensors based on nanostructured carbon materials Ref. CTQ2008-06338. Funded by Spanish Science and Innovation Ministry.
- 2009/10 Sensors for environmental parameters which affect the conservation of historical materials Ref. 2008PL0021. Funded by Spanish National Research Council.
- 2009/10 Interactions between technology and society on Iron Age pottery through archaeometric methods Ref. 2008PL0012. Funded by Spanish National Research Council.
- 2008/12 Research Programme on Technologies for the conservation and valorization of Cultural Heritage Ref. Consolider Ingenio 2010, CSD2007-00058. Funded by Spanish Science and Innovation Ministry.
- 2007/09 Bierzo RedGreenBlack. Cultural and natural landscapes from El Bierzo: geo-archaeology, paleoenvironment and paleobiology Ref. PIF 06-055. Funded by Spanish National Research Council.

• Scientific Production

I. Publications included in JCR journals (First author 18/24)

1. C. Machado, A. Machado, T. Palomar, M. Vilarigues (IN PRESS) Grisaille in historical written sources. *Journal of Glass Studies*.
2. T. Palomar, D. de la Fuente, M. Morcillo, M. Álvarez De Buergo, M. Vilarigues (2019). Early stages of environmental glass alteration in coastal atmosphere. *Building and environment*, 147, 305-313. <https://doi.org/10.1016/j.buildenv.2018.10.034>
3. T.A. Rodrigues, S. Fearn, T. Palomar, M. Vilarigues (2018) Early stages of surface alteration of soda-rich-silicate glasses in the museum environment. *Corrosion Science*, 143, 362-375. <http://dx.doi.org/10.1016/j.corsci.2018.08.012>
4. T. Palomar, R.J. Diaz, M. Vilarigues (2018) Pigments, vinegar and blood: Interpretation and reproduction of glassy materials from the medieval Manuscript H-490. *International Journal of Applied Glass Science*, 9 (4), 555-565. <http://dx.doi.org/10.1111/ijag.12354>
5. T. Palomar, F. Agua, M. Gomez-Heras (2018) Application of infrared thermography to stained glass windows characterization. *International Journal of Applied Glass Science*, 9 (4), 530-539. <http://dx.doi.org/10.1111/ijag.12352>
6. A. Corrêa Pinto, T.C Sanjad, R.S Angélica, M.L Costa, R.S Paiva, T. Palomar (2018). 19th century stained glass windows from Belém do Pará (Brazil): Analytical characterization and pathology. *Boletín de la Sociedad Española de Cerámica y Vidrio*, 57 (4), 133-141. <http://dx.doi.org/10.1016/j.bsecv.2017.10.005>
7. T. Palomar (2018). Chemical composition and alteration processes of glasses from the Cathedral of León (Spain) *Boletín de la Sociedad Española de Cerámica y Vidrio*, 57 (3), 101-111. <http://dx.doi.org/10.1016/j.bsecv.2017.10.001> SCIENTIFIC JOURNAL COVER IMAGE
8. T. Palomar (2018) Characterization of the alteration processes of historical glasses on the seabed. *Materials Chemistry and Physics*, 214, 391-401. <https://doi.org/10.1016/j.matchemphys.2018.04.107>
9. T. Palomar, B. Ramirez-Barat, E. Cano (2018) Evaluation of cleaning treatments for tarnished silver: the conservator's perspective. *International Journal of Conservation Science*, 9 (1) 81-90. http://www.ijcs.uaic.ro/public/IJCS-18-07_Palomar.pdf
10. T. Palomar, E. Cano (2018) Comparative assessment of cleaning procedures for conservation of historical lead. *Journal of Cultural Heritage*, 30, 34-4. <https://doi.org/10.1016/j.culher.2017.10.010>

11. T. Palomar, A. Chabas, D. M. Bastidas, D. de la Fuente, A. Verney-Carron (2017) Effect of marine aerosols on the alteration of silicate glasses. *Journal of Non-Crystalline Solids*, 471, 328-337. <http://dx.doi.org/10.1016/j.jnoncrysol.2017.06.013>
12. T. Palomar. Effect of soil pH on the degradation of silicate glasses. *International Journal of Applied Glass Science*, 8, 177-187. <http://dx.doi.org/10.1111/ijag.12226>
13. T. Palomar, I. Llorente (2016) Decay processes and corrosion of silicate glasses in marine environments. *Journal of Non-Crystalline Solids*, 449, 20-28. <http://dx.doi.org/10.1016/j.jnoncrysol.2016.07.009>. CITED 3 TIMES.
14. T. Palomar, M. Oujja, I. Llorente; B. Ramirez Barat, M.V. Cañamares; E. Cano, M. Castillejo (2016) Evaluation of laser cleaning treatment for restoration of tarnished silver artifacts. *Applied Surface Science*, 387, 118-127. <http://dx.doi.org/10.1016/j.apsusc.2016.06.017> CITED 1 TIME.
15. T. Palomar, B. Ramirez Barat, E. García, E. Cano (2016) A comparative study of cleaning methods for tarnished silver. *Journal of Cultural Heritage*, 17, 20-206. <http://dx.doi.org/10.1016/j.culher.2015.07.012> CITED 4 TIMES.
16. T. Palomar, M. Oujja, M. Garcia-Heras, M.A. Villegas Castillejo (2013) Laser Induced Breakdown Spectroscopy for analysis and characterization of degradation pathologies of Roman glasses. *Spectrochimica Acta - Part B Atomic Spectroscopy*, 87, 114-120. <http://dx.doi.org/10.1016/j.sab.2013.05.004> CITED 7 TIMES.
17. T. Palomar, M. Garcia-Heras, R. Sabio, J.M. Rincón, M.A. Villegas (2012) Composition, preservation and production technology of Augusta Emerita Roman glasses from first to sixth centuries AD. *Mediterranean Archaeology and Archaeometry*, 12, 193-211. <http://maajournal.com/Issues/2012/pdf/Full15.pdf> CITED 2 TIMES.
18. T. Palomar, F. Agua, M. Garcia-Heras, M.A. Villegas (2011) Chemical degradation and chromophores of 18th century window glasses. *Glass Technology: European Journal of Glass Science and Technology Part A*, 52, 145-153. <http://www.ingentaconnect.com/content/sgt/gta/2011/00000052/00000005/art00001> CITED 2 TIMES.
19. T. Palomar, M. Garcia-Heras, C. Saiz-Jimenez, C. Márquez, M.A. Villegas (2011) Pathologies and analytical study of mosaic materials from Carmona and Italica. *Materiales de Construcción*, 61, 629-636. <http://dx.doi.org/10.3989/mc.2011.64310> CITED 2 TIMES.
20. J. Peña-Poza, M. Garcia-Heras, T. Palomar, A. Laudy, E. Modzelewska, E., M.A. Villegas (2011) Environmental evaluation with chemical sensors in the Palace Museum of Wilanów. *Bulletin of the Polish Academy of Sciences: Technical Sciences*, 59, 247-252. <http://dx.doi.org/10.2478/v10175-011-0030-1> CITED 3 TIMES.
21. J. Peña-Poza, J.F. Felix Conde, T. Palomar, F. Agua, M. Garcia-Heras, M.A. Villegas (2011) Environmental evaluation of the holdings at the CCHS-CSIC Tomas Navarro Tomas Library. *Revista española de Documentación Científica*, 34, 65-78. <http://dx.doi.org/10.3989/redc.2011.1.774> CITED 3 TIMES.
22. T. Palomar, M. Garcia-Heras, M.A. Villegas, M.T. Sevilla (2011) Fast electrochemical characterization of historical glasses using carbon screen-printed electrodes and ultrasonic assisted sampling. *Electroanalysis*, 23, 521-528. <http://dx.doi.org/10.1002/elan.201000408>
23. J. Peña-Poza, T. Palomar, M. Garcia-Heras, M.A. Villegas (2010) Study and conservation state of metallic elements of stained glass windows from the Cathedral of Leon. *Revista de Metalurgia*, 46, 260-273. <http://dx.doi.org/10.3989/revmetalm.0960>
24. T. Palomar, M. Garcia-Heras, M.A. Villegas (2009) Archaeological and historical glasses: A bibliometric study. *Boletín de la Sociedad Española de Cerámica y Vidrio*, 48, 187-194. <http://boletines.secv.es/upload/2009090494956.200948187.pdf> CITED 9 TIMES.

II. Submitted publications to JCR journals (1)

1. T. Palomar, M.A. Gomez-Morón, L.C. Alves, P. Ortiz, M. Vilarigues. Historic restorations of the Maqsurah mosaics from the Great Mosque of Cordoba (Spain). *Journal of Glass Studies* (IN PREPARATION)

III. Publications not included in JCR journals (Last five years: 0/ Total: 5)

1. T. Palomar, M. Garcia-Heras, M.A. Villegas (2012) Deterioro y alteraciones de vidrios romanos en medio marino / Decay and alterations of Roman glasses in marine environment. *Estudos Arqueológicos de Oeiras*, 19, 155-162.

IV. Dissemination articles (Last five years: 5/ Total: 10)

1. T. Palomar. ¿Y si tenemos un ambiente ácido en el museo? / What happens if we have an acid environment in the museum? *MoleQ/a*, 25, 58-60. OUTSTANDING ARTICLE OF THE JOURNAL

2. T. Palomar (2016) ¿Por qué la música de Bach no suena igual? / Why the music of Bach has not sound the same? *MoleQla*, 23, 49-51. OUTSTANDING ARTICLE OF THE JOURNAL
3. T. Palomar (2016) Guía rápida para estudiar el color de un vidrio / Quick guide to study the color of glasses. *MoleQla*, 22, 33-35. OUTSTANDING ARTICLE OF THE JOURNAL
4. E. Cano, B. Ramirez, T. Palomar (2015) Ciencia y tecnología aplicada al estudio y la restauración del patrimonio metálico: técnicas electroquímicas / Science and technology applied in the study and restoration of metallic heritage: electrochemical techniques. *Revista del Comité Español de ICOM*, 10, 96-103.
5. T. Palomar, Ramirez-Barat, B., E. Cano, M. del Egido (2014) Observatory of Cultural Heritage Conservation Research. A useful tool for conservation researchers. *Coalition*, 26, 6-1.

V. Book edition (2)

1. I. Coutinho, T. Palomar, S. Coentro, A. Machado, M. Vilarigues. Proceedings of the 5th GLASSAC International Conference (2017) NOVA.FCT editorial. Caparica, Portugal. ISBN: 978-989-99528-3-6
2. T. Palomar. Proceedings of the II Conference in Conservation and Restoration of Metallic Heritage "MetalEspaña2015" (2015) UAM, CSIC. Madrid. ISBN: 978-84-608-6730-2

- **Conferences (Last five years: 23/ Total: 39)**

Presentations were 21 oral communications and 2 posters

1. C. Machado, A. Machado, T. Palomar, L.C. Alves, M. Vilarigues (2018) Grisaille vs. Black enamel in the written sources. *V Spanish- Portuguese Congress of Ceramics and the LVI Congreso Nacional de la SECV*. Barcelona (Spain)
2. T. Palomar, M. Silva, I. Pombo Cardoso, M. Vilarigues, M.T. Marques, A. Mântua (2018) In-situ assessment of the Art Nouveau glass windows from the Casa-Museu Dr. Anastácio Gonçalves (Portugal). *V Spanish- Portuguese Congress of Ceramics and the LVI Congreso Nacional de la SECV*. Barcelona (Spain)
3. T. Palomar, M. Vilarigues (2018) Vidrio para proteger vidrio: Principales problemas de los acristalamientos protectores / Glass to protect glass: Main problems of the protective glazing. Conference *GE-IIC 2018*. Vitoria (Spain)
4. C. Machado, A. Machado, T. Palomar, L.C. Alves, M. Vilarigues (2018) Historical Reproduction of Grisailles: A preliminary study. *PNCS – ESG 2018 (15th International Conference on the Physics of Non-Crystalline Solids & 14th European Society of Glass Conference)*. Saint Malo (France)
5. T. Palomar, P. Redol, I. Cruz Almeida, E. Pereira da Silva, M. Vilarigues (2018) The influence of the climatology in the alteration of the stained-glass windows in Portuguese monuments. *2018 E-MRS Spring Meeting (European Materials Research Society)*. Strasbourg (France)
6. C.R. Santos, T. Palomar, P. Dabas, I. Coutinho (2018) Studying and decoding the secrets hidden in the 18-20th centuries Portuguese glass *arcana*. *6th International Conference: YOCOCU, Youth in Conservation of Cultural Heritage*. Matera (Italy)
7. T. Palomar, D. de la Fuente, M. Morcillo, M. Vilarigues (2017) Early stages of environmental glass alteration in the Atlantic coast of the Iberian Peninsula. *International Symposium on glass degradation in atmosphere*. Paris (France) INVITED COMMUNICATION
8. T. Palomar, B. Ramírez Barat, E. Cano (2017) Effect of successive potentiostatic cleanings on tarnished silver and lead. *ICOM-CC 18th Triennial Conference*. Copenhagen (Denmark)
9. T. Palomar, C. Machado, F. Agua, M. Gomez-Heras (2017) Thermographic analysis of glasses, enamels and grisailles from stained glass windows. *5th International Conference on Glass Science in Art and Conservation. GLASSAC2017*. Lisbon (Portugal)
10. T. Palomar, B. Ramírez Barat, J.M. Vélix, E. Cano (2017) Evaluation of cleaning procedures for the conservation of tarnished lead. *TechnoHeritage 2017. 3rd International Conference Science and Technology for the Conservation of Cultural Heritage*. Cadiz (Spain)
11. B. Ramirez Barat, T. Palomar, D. de la Fuente, E. Cano (2016) A comparative study of composition and protective properties of weathering steel artificial patinas for the conservation of contemporary outdoor sculpture. *Metal 2016*. New Delhi (India)
12. T. Palomar, F. Agua, M.A. Villegas, M. Gomez-Heras (2016) Infrared thermography as a tool for the stained glass windows characterization. *International Conference Youth in Conservation of Cultural Heritage YOCOCU 2016*. Madrid (Spain).

13. T. Palomar, A. Chabas, D.M. Bastidas, D. de la Fuente, A. Verney-Carron (2016) Effect of marine aerosols on the alteration of silicate glasses. *European Society of Glass Science and Technology 2016 Conference*. Sheffield (UK).
14. T. Palomar, M. Vilarigues (2016) The role of marine ions in the aqueous alteration of silicate glasses. *European Society of Glass Science and Technology 2016 Conference*. Sheffield (UK).
15. E. Cano, B. Ramírez, A. Crespo, D.M. Bastidas, T. Palomar, S. Díaz, E. García, E. Martín G. Pérez de Rada (2016) Conservación-restauración del patrimonio cultural metálico por técnicas electroquímicas: investigación y aplicación (CREMEL II) / Conservation-Restoration of metallic cultural heritage by electrochemical techniques: Research and application (CREMEL II). *Science and Art VI. Sciences and technologies applied to the Heritage Conservation*. Madrid (Spain)
16. T. Palomar, M. Oujja, I. Llorente, Ramirez-Barat, B., M.V. Cañamares, M. Castillejo, E. Cano (2015) Estudio del efecto de la limpieza láser en plata sulfurada / Study of the effect of laser cleaning on sulphured silver. *Study and conservation of Cultural Heritage (ECPC - 2015)*. Malaga (Spain).
17. Barrera, M., T. Palomar, Alonso, J.L., Sánchez, I., B. Ramirez Barat, E. Cano (2015) Limpieza de unas monedas de plata de la época de Felipe V y Carlos III / Cleaning of silver coins from Felipe V and Carlos III period. *MetalEspaña2015. II Conference in Conservation and Restoration of Metallic Heritage*. Segovia (Spain).
18. T. Palomar, M. Oujja, Ramirez-Barat, B., E. Cano, M. Castillejo (2015) Evaluation of surface laser cleaning for restoration of tarnished silver artefacts. *Optics for Arts, Architecture, and Archaeology (O3A)*. Munich (Germany).
19. B. Ramirez Barat, T. Palomar, E. Cano (2014) El Observatorio para la Investigación en Conservación: una herramienta para los profesionales en la conservación de Patrimonio Cultural / The Observatory for Conservation Research: a tool for professionals of conservation in Cultural Heritage. *Science and Art V. Sciences and technologies applied to the Heritage Conservation*. Madrid (Spain). INVITED COMMUNICATION
20. T. Palomar, B. Ramirez Barat, Díaz, S., E. García, Lafuente, D., E. Cano (2014) Impact assessment of different cleaning methods for tarnished silver artefacts. *II International Congress Science and Technology for the Conservation of Cultural Heritage*. Seville (Spain).
21. B. Ramirez Barat, T. Palomar, E. Cano, M. del Egido (2014) Observatory of Cultural Heritage Conservation Research. *II International Congress Science and Technology for the Conservation of Cultural Heritage*. Seville (Spain).
22. T. Palomar (2014) El Observatorio como herramienta de difusión / The Observatory as dissemination tool. *Presentación del Observatorio para la Promoción de la Investigación en Conservación del Patrimonio Cultural*. Madrid (Spain). INVITED COMMUNICATION
23. T. Palomar, M. Garcia-Heras, M.A. Villegas (2013) La arqueometría en el estudio de un conjunto de vidrios del siglo XIX hallado en el Pecio de Navidad (Cartagena, Murcia) / The archaeometry in the study of 19th century glasses located in the Navidad shipwreck Cartagena (Spain). *X Iberian Congress of Archaeometry*. Castellón (Spain).

- **Organization of Scientific Meetings**

05/2017 5th International Conference on Glass Science in Art and Conservation. GLASSAC2017 (Lisbon, Portugal)
 10/2015 MetalEspaña 2015. II Congress on conservation and restoration of metallic heritage (Segovia, Spain)
 05/2010 III Conference for young researchers in archaeological research (Barcelona, Spain)

- **Participation in R&D Contracts (5)**

- 2015 Application of electrochemical techniques for the characterizarion and treatment of silver coins. Funded by Secretaría de Estado de Cultura (MECD)
- 2009 Analytical study of corrosion layers from samples of stained glasses from the Cathedral of Leon. Funded by ESOCA s.l.
- 2009 Conservation study of stained glasses from the Espíritu Santo church of CSIC. Funded by Vitrea Sociedad Corporativa Limitada
- 2009 Petrographic study of archaeological pottery of Bronze Age. Funded by University de Santiago de Compostela
- 2009 Study of corrosion and conservation of materials from Atocha railway station (Madrid). Funded by Architectural Study Javier Contreras Plaza

- **Research stays (5)**

- 02/16 - 08/18 Research group VICARTE (FCT-UNL) (Portugal). Post-doc stay.
 02/16 - 05/16 Instituto Andaluz del Patrimonio Histórico (Spain). MSc. practices.
 06/15 - 06/15 Laboratoire Interuniversitaire des Systèmes Atmosphériques, Université Paris-Est Créteil (France). Erasmus+ Staff mobility for training.
 09/10 - 11/10 Royal Academy Of Fine Arts - Hogeschool Antwerpen (Belgium), Department of Glass Conservation and Restoration. Predoctoral fellowship.
 11/09 - 11/09 Palace Museum of Wilanow (Poland), Research Polish Academy of Sciences.

- **Teaching Activities**

ANECA Accreditation for Assistant Professor of University

- 2014/15 Glass Properties I - Artistic Degree in Fine Arts: specialty Glass (4 ECTS credits), Higher Education Institution of Glass (Segovia, Spain)
 2014/15 Archaeological materials (glass) -Degree in Conservation and Restoration of Cultural Heritage (3 hours), Complutense University of Madrid (Spain)
 2013/14 Chemical Basis of Glass - Artistic Degree in Fine Arts: specialty Glass (6 ECTS credits), Higher Education Institution of Glass (Segovia, Spain)
 2011/12 Management of Technical Resources in Cultural Heritage Conservation - Postgraduate course (7 hours)
 Given 2 times, Spanish Council for Scientific Research (Madrid, Spain)
 2010/11-11/12 Instrumental Techniques in Environmental Science - Environmental Science Degree (20 hours)
 Given 2 times, Autonoma University of Madrid (Spain)

- **Research supervision**

I. Subject projects

- 2017/18 Grisailles and other materials from stained-glass windows. Ana Rita Lourenço, Andreia Pereira, Carolina Peixe. Subject: Métodos de Exame e Análise (MSc. Conservation Science, FCT-UNL). Advisors: M. Vilarigues, T. Palomar, C. Machado
 2017/18 Alteration of different glasses due to immersion in water. Joana Fontes, Carolina Santana, Carolina Viana. Subject: Química-Física (CR) (BSc. Conservation and Restoration, FCT/UNL). Advisor: T. Palomar
 2017/18 Analyses of industrial glasses from the Coina glass factory. Catarina Santos. Subject: Métodos de Exame e Análise (MSc. Conservation Science, FCT-UNL). Advisors: I. Coutinho, T. Palomar, P. Dabas
 2016/17 Archaeometrical study of glass tiles from the Cathedral-Mosque of Cordoba. Ana Patricia Luis, Maria João Pereira. Subject: Métodos de Exame e Análise (MSc. Conservation Science, FCT-UNL). Advisor: T. Palomar
 2016/17 Reproduction of recipes from Portuguese glass factories. Catarina Santos. Subject: Projecto II (MSc. Conservation Science, FCT-UNL). Advisors: I. Coutinho, T. Palomar
 2016/17 Alteration effect of common cleaning products on potash lime silicate glass. Isabela Aiache. Subject: Introduction to Glass Science and Technology II (MSc. Glass Art and Science, FCT-UNL). Advisor: T. Palomar

II. Master students

- 2017/18 Reproduction of recipes from Portuguese glass factories. Catarina Santos. MSc. Conservation Science (FCT-UNL). Advisors: I. Coutinho, T. Palomar, P. Dabas

III. PhD students

- 2018/22 From the texts to the laboratory – a study for the preservation of historical grisailles. Carla Fabiana Vaz Machado. PhD on Conservation and restoration (FCT-UNL). Advisors: T. Palomar, M. Vilarigues

- **Seminaries and dissemination activities**

- 2018 Advantages and disadvantages of living on the (Atlantic) coast. Place: Nova University of Lisbon (FCT-UNL) (Portugal). INVITED SEMINAR
 2016 Evaluación del efecto de la limpieza de objetos de plomo para su conservación / Assesment of the cleaning effect on lead artifacts for their conservation. Place: Complutense University of Madrid (Madrid, Spain). INVITED SEMINAR

- 2015 Alteration of historic glasses in simulated environments. Place: University Paris-Est Créteil (Paris, France).
INVITED SEMINAR
- 2011/12 The colour of pH. Places: British Council School and Institute of History (CCHS-CSIC) in the frame of the Science Week. GIVEN 5 TIMES.
- 2011/12 A journey into the ancient pottery. Place: Institute of History (CCHS-CSIC) in the frame of the Science Week. GIVEN 3 TIMES.
- 2009/10 The fire materials. Place: Institute of History (CCHS-CSIC) in the frame of the Science Week. GIVEN 4 TIMES.
- 2008/11 Glass in pictures: history, art and technology. Places: Saint Francis of Assisi School (Madrid), Institute of Building Science Eduardo Torroja (CSIC) and, Institute of History (CCHS-CSIC) in the frame of the Science Week. GIVEN 8 TIMES.

- **Participation in scientific committees**

- 2017 Conference 5th GLASSAC International Conference. Faculdade de Ciencia e Tecnologia, Universidade Nova de Lisboa
- 2017 "Special Day on Post-Roman Glass in the Iberian Peninsula". Conference 5th GLASSAC International Conference. Faculdade de Ciencia e Tecnologia, Universidade Nova de Lisboa

- **Journal reviewer**

- Journal of the American Ceramic Society (IF 2016: 13.858, Q1 in Chemistry, Multidisciplinary)
- Corrosion Science (IF 2016: 5.245, Q1 in Materials Science, Multidisciplinary)
- Materiales de Construcción (IF 2016: 1.343, Q2 in Construction & Building Technology)
- Journal of Cultural Heritage (IF 2016: 2.379, Q3 in Materials Science, Multidisciplinary)
- Boletín de la Sociedad Española de Cerámica y Vidrio (IF 2016: 0.560, Q3 in Materials Science, Ceramics)
- Ge-conservación (SCImago, SJR 2016: 0.123, Q3 in Conservation)

- **Scientific societies and professional associations**

- Sociedad Española de Cerámica y Vidrio (SECV). From January 2018
- Corpus Vitrearum. From October 2017
- International Council of Museums (ICOM). From January 2017

- **Specialization courses**

- 06/2014 HERACLES Fall School 2017 "Characterization Techniques in Cultural Heritage". Organization: FCT-NOVA.
- 06/2014 Expert in e-Learning. Organization: Spain's School for Industrial Organization.
- 03/2014 Preparation of applications for R&D funding. Organization: Institute of Philosophy (CCHS-CSIC).
- 07/2013 Practical Program on Conservation in Museums and Collections. Organization: Higher Education Institution of Conservation and Restoration of Cultural Heritage.
- 06/2013 Archaeometry and conservation of historical ceramic and glass materials. Organization: Regional Archaeological Museum of Madrid.
- 03/2013 Preventive Conservation: Practical Cases. Organization: Higher Education Institution of Conservation and Restoration of Cultural Heritage.
- 02/2012 Restoration and Conservation in the Prado Museum. Organization: Foundation of Friends of the Prado Museum.
- 11/2010 Science and Past: from Ancient methods to new technologies. Organization: University de Zaragoza.
ASSISTANCE GRANT FROM UICA.

- **Languages**

Spanish	Native
English	Correctly
Portuguese	Correctly