

SUSANA COENTRO

CURRICULUM VITAE | DECEMBER 2019

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Main research subjects:

Technical Art History of Ceramics, Azulejo, Glazes, Glass, and Enamels; Historical Treatises, Archaeometry, Conservation Science, Pigments

ACADEMIC DEGREES

2011-2017: PhD in Conservation and Restoration (field of History, Theory and Techniques)

Faculty of Sciences and Technology, Universidade NOVA de Lisboa, Portugal

Thesis: *An Iberian Heritage: Hispano-Moresque Architectural Tiles in Portuguese and Spanish Collections.*

2008-2010: Master in Conservation and Restoration (specialisation in Glass and Ceramics)

Faculty of Sciences and Technology, Universidade NOVA de Lisboa, Portugal

Thesis: *Estudo da Camada Pictórica na Azulejaria Portuguesa do século XVII.* (Trad. "Study of the Pictorial Layer in 17th century Portuguese Azulejos") | Classification: 18/20

2005-2008: Bachelor in Conservation and Restoration

Faculty of Sciences and Technology, Universidade NOVA de Lisboa, Portugal | Classification: 16/20

RESEARCH POSITIONS

- (Current) Since 2019/07 **Junior Researcher (contract)**
VICARTE (Research Unit "Glass and Ceramic for the Arts")
Faculty of Sciences and Technology, Universidade NOVA de Lisboa, Portugal
- 2017/09 to 2018/03 **Research Fellow**
VICARTE (Research Unit "Glass and Ceramic for the Arts")
Faculty of Sciences and Technology, Universidade NOVA de Lisboa, Portugal
- 2017/05 to 2017/07 **Research Fellow**
LAQV-REQUIMTE, Department of Chemistry,
Faculty of Sciences and Technology, Universidade NOVA de Lisboa, Portugal
- 2016/03 to 2016/12 **Research Fellow**
VICARTE (Research Unit "Glass and Ceramic for the Arts")
Faculty of Sciences and Technology, Universidade NOVA de Lisboa, Portugal
- 2011/04 to 2015/03 **PhD Fellow (FCT Grant SFRH/BD/73007/2010)**
VICARTE (Research Unit "Glass and Ceramic for the Arts"),
Faculty of Sciences and Technology, Universidade NOVA de Lisboa, Portugal
- 2009/03 to 2010/09 **Research Intern**
Laboratório Nacional de Engenharia Civil (LNEC), Lisboa, Portugal

PUBLICATIONS

PEER-REVIEWED ARTICLES

S. Coentro, R.A.A. Trindade, R.C. da Silva, V.S.F. Muralha (2018), The techniques of Hispano-Moresque tiles: Examining the collection of the Monastery of Santa Clara-a-Velha in Coimbra, Portugal, *Journal of the Tiles & Architectural Ceramic Society*, 24: 1-9. ISSN: 0264-5157

S. Coentro, C. Relvas, T. Ferreira, J. Mirão, R.A.A. Trindade, A. Pleguezuelo, R.C. da Silva, and V.S.F. Muralha (2018). Mineralogical Characterization of Hispano-Moresque Glazes: A μ -Raman and Scanning Electron Microscopy with X-Ray Energy Dispersive Spectrometry (SEM-EDS) Study, *Microscopy and Microanalysis*, 24 (3): 300-309.
<https://doi.org/10.1017/S1431927618000338>

A.S. Leal, L.C. Alves, **S. Coentro**, S. Pereira, C. Relvas, T. Ferreira, J. Mirão, L. Fernandes, V.S.F. Muralha (2018), Chemical and physical characterisation of the Hispano-Moresque tile collection from Lisbon Roman Theatre Museum, *Conserverar Património*, 29: 25-39. <https://doi.org/10.14568/cp2017011>

S. Coentro, L.C. Alves, C. Relvas, T. Ferreira, J. Mirão, J. Molera, T. Pradell, R.A.A. Trindade, R.C. da Silva, and V.S.F. Muralha (2017). Glaze Technology of Hispano-Moresque Ceramic Tiles: A Comparison Between Portuguese and Spanish Collections, *Archaeometry*, 59 (4): 667-684. <https://doi.org/10.1111/arcm.12280>

F. Carvalho, **S. Coentro**, I. Costeira, R.A.A. Trindade, L.C. Alves, R.C. da Silva, and V.S.F. Muralha (2016), The Cistercian glazed tiles of the Monastery of Alcobaça: characterization of the colour palette, *Journal of Medieval Iberian Studies*, 8 (2): 196-216. <https://doi.org/10.1080/17546559.2016.1222447>

I. Coutinho, T. Medici, **S. Coentro**, L.C. Alves, and M. Vilarigues (2016). First archaeometric study on medieval glass found in Beja (Southern Portugal), *Journal of Medieval Iberian Studies*, 8 (2): 148-175.
<https://doi.org/10.1080/17546559.2016.1205752>

Muralha, V.S.F., Canaveira, S., Mirão, J., **Coentro, S.**, Morna, T., and Salerno, C.S. (2015), Baroque glass mosaics from the Capela de São João Baptista (Chapel of Saint John the Baptist, Lisbon): unveiling the glassmaking records. *Journal of Raman Spectroscopy*, 46: 483–492. <https://doi.org/10.1002/jrs.4669>

Coentro, S., Trindade, R.A.A., Mirão, J., Candeias, A., Alves, L.C., Silva, R.C. da, Muralha, V.S.F. (2014), Hispano-Moresque ceramic tiles from the Monastery of Santa Clara-a-Velha (Coimbra, Portugal), *Journal of Archaeological Science*, 41: 21-28. <https://doi.org/10.1016/j.jas.2013.07.031>

Coentro, S., Lima, A.M., Silva, A.S., Pais, A.N., Mimoso, J.M., Muralha, V.S.F. (2012), Pigments and pigment mixtures in Portuguese 17th century Azulejos. *Journal of the European Ceramic Society*, 32 (1): 37-48.
<https://doi.org/10.1016/j.jeurceramsoc.2011.07.021>

BOOKS

COENTRO, Susana Xavier, *Estudo da camada pictórica na azulejaria Portuguesa do Século XVII*, Coleção Teses de Mestrado LNEC, Lisboa: Laboratório Nacional de Engenharia Civil, 2010. ISBN: 9789724922188

ARTICLES IN BOOKS

Coentro, S., Muralha, V.S.F., Lima, A.M., Silva, A.S., Pais, A.N., Mimoso, J.M., As Cores na Azulejaria Portuguesa do Século XVII. In: Catálogo da Exposição “Um Gosto Português. O uso do azulejo no século XVII”, Lisboa: Instituto Português de Museus, 2012. (ISBN: 9789893100301)

CONFERENCE PROCEEDINGS

Coentro, S., Alves, L.C., Coll Conesa, J., Ferreira, T., Mirão, J., da Silva, R.C., Trindade, R., and Muralha, V.S.F. *Underglaze-decorated tin-opacified ceramic tiles from 15th-16th-century Iberian Peninsula*. Proceedings of the International Conference “Glazed Ceramics in Cultural Heritage” (GlazeArt), LNEC, Lisbon, October 28-30, 2018. (ISBN: 978-972-49-2301-7)

S. Coentro, L.C. Alves, B. Gratuze, R. Trindade, R.C. da Silva, V.S.F. Muralha, *Hispano-Moresque architectural glazes in the context of medieval glass technology*, 5th International Conference on Glass Science in Art and Conservation – GLASSAC, Lisbon, June 6th-9th 2016 (ISBN: 978-989-99528-3-6)

F. Carvalho, S. Coentro, R. Trindade, C. Relvas, T. Ferreira, L.C. Alves, R.C. da Silva, J. Mirão, V.S.F. Muralha, *Cistercian Pavements from Santa Maria de Alcobaça Abbey: First Examples of Tin-glazed Tiles in Portugal*, Proceedings of GlazeArch 2015 – International Conference on Glazed Ceramics in Architectural Heritage, editors: José Delgado Rodrigues & João Manuel Mimoso, LNEC, Collection: Reuniões Nacionais e Internacionais, série RNI 93, Lisboa, Portugal, 2015, p. 111-113. (ISBN: 978-972-49-2277-5)

A.P. Alho, R. Trindade, S. Coentro, V.S.F. Muralha, *Um olhar sobre a documentação de Setúbal e a azulejaria medieval em Portugal*, Proceedings of GlazeArch 2015 – International Conference on Glazed Ceramics in Architectural Heritage, editors: José Delgado Rodrigues & João Manuel Mimoso, LNEC, Collection: Reuniões Nacionais e Internacionais, série RNI 93, Lisboa, Portugal, 2015, pp. 111-113. (ISBN: 978-972-49-2277-5)

A.P. Alho, R. Trindade, S. Coentro, V.S.F. Muralha, *Á luz da documentação: A azulejaria entre os séculos XIV e XVI na cidade de Lisboa, um estudo de proveniência*, in, SANTOS, Aurora Almada, ALBERTO, Edite Martins, COUTINHO, Maria João Pereira, “Arquivo Municipal de Lisboa: Um acervo para a História II”, Arquivo Municipal de Lisboa, 2015, pp. 27-38 (ISBN: 978-989-96300-5-5)

Coentro S., Trindade R., Mirão J., Candeias A., Alves L. C., Silva R., Muralha V., *Chemical characterisation of Hispano-Moresque tiles from the Monastery of Santa Clara-a-Velha in Coimbra, Portugal*, Proceedings of the International Congress AZULEJAR, Aveiro, 10-12th October 2012

S Coentro, V Muralha, A Lima, A Pais, A Silva and J Mimoso (2011). The Colors and Techniques of 17th Century Portuguese Azulejos: a Multi-Analytical Study. *Microscopy and Microanalysis*, 17 (Suppl. 2): 1782-1783. DOI: <https://doi.org/10.1017/S1431927611009780>

Mimoso, João M., Silva, António S., Abreu, Miguel M., Costa, Dória R., Gonçalves, Teresa D., Coentro, S. *Decay of historic azulejos in Portugal: an assessment of research needs*, International Seminar “Conservation of Glazed Ceramic Tiles: Research and practice”. Lisboa: Laboratório Nacional de Engenharia Civil, 15-16 Abril, 2009

BOOK EDITTING

aaw., Proceedings of the 5th International Conference on Glass Science in Art and Conservation – GLASSAC, (Eds. S. Coentro, I. Coutinho, A. Machado, T. Palomar, M. Vilarigues), Lisbon, June 6th-9th 2017. Nova.FCT Editorial (ISBN: 978-989-99528-3-6)

REPORTS

Coentro S. , Mimoso J M and Silva A S, Investigação da morfologia da interface vidrado/chacota em azulejos históricos, Relatório LNEC, 27, 2010.

COMMUNICATIONS

SEMINARS BY INVITATION

Coentro, S. *O azulejo hispano-mourisco: história, materiais e técnicas.* Faculdade de Arquitectura da Universidade de Lisboa. October 29th 2019

F. Carvalho, C. Relvas, T. Ferreira, J. Mirão, L.C. Alves, R.C. da Silva, R.A.A. Trindade, V.S.F. Muralha, S. Coentro, *Cor e técnica na cerâmica de revestimento medieval: o caso dos ladrilhos cistercienses do Mosteiro de Alcobaça.*

VII Residência Cisterciense “Conventualidades: representações e vestígios do quotidiano”, Évora, 20-21 de Setembro 2019

Coentro, S., & Trindade, R.A.A., *Azulejaria Tardo-Medieval: Perspectivas de Investigação | Research Perspectives on Late Medieval Tilework*, AzLab #45, Faculdade de Ciências da Universidade de Lisboa, January 16th 2019

Coentro, S., Pigmentos, receitas e matérias-primas: Estudo das técnicas de produção da azulejaria do Mosteiro de Santa Clara-a-Velha, Coimbra. Ciclo de Conferências “Azulejaria Mudéjar do Mosteiro de Santa Clara-a-Velha: Inclusão pela Cor”, Coimbra, December 13th, 2018

Coentro, S., "An Iberian Heritage: Hispano-Moresque Architectural Tiles in Portuguese and Spanish Collections, HERACLES Fall School "Characterisation Techniques in Cultural Heritage", FCT-NOVA, Caparica, Portugal, October 11th-12th, 2017

F. Carvalho, C. Relvas, T. Ferreira, J. Mirão, L.C. Alves, R.C. da Silva, R.A.A. Trindade, V.S.F. Muralha, S. Coentro, *Ladrilhos Cistercienses do Mosteiro de Alcobaça, Portugal: um estudo sobre a técnica decorativa e a tecnologia de produção*, Colóquio “Os Pavimentos Cerâmicos Medievais do Mosteiro de Santa Maria de Alcobaça”, Alcobaça, Portugal, 1 de Julho de 2016

Susana Coentro, *Vidrados Históricos – Tratados, Receituários e Reproduções em Laboratório*, Workshop “Ciência para Ceramistas”, Montemor-o-Novo, Portugal, 7 de Maio de 2016

V.S. Muralha, S. Coentro, C. Stefano, S. Canaveira, *Scientific Analysis of the glass mosaics at the Chapel of St. John Baptist*, Ciclo de conferências temáticas sobre a Capela de São João Baptista, 3rd May, 2012 Lisbon, Portugal

ORAL COMMUNICATIONS

Coentro, S., Alves, L.C., Coll Conesa, J., Ferreira, T., Mirão, J., da Silva, R.C., Trindade, R., and Muralha, V.S.F. *Underglaze-decorated tin-opacified ceramic tiles from 15th-16th-century Iberian Peninsula*. GlazeArt – International Conference “Glazed Ceramics in Cultural Heritage”, LNEC, Lisbon, October 28-30, 2018

S. Coentro, L.C. Alves, B. Gratuze, C. Relvas, T. Ferreira, J. Mirão, J. Coll Conesa, R. Trindade, R.C. da Silva , V.S.F. Muralha (2017). *Hispano-Moresque architectural tiles from Portuguese and Spanish collections: an archaeometric study*. 14th European Meeting on Ancient Ceramics (EMAC). Bordeaux, France, September 6th-9th, 2017

S. Coentro, L.C. Alves, B. Gratuze, R. Trindade, R.C. da Silva, V.S.F. Muralha, *Hispano-Moresque architectural glazes in the context of medieval glass technology*, 5th International Conference on Glass Science in Art and Conservation – GLASSAC, Lisbon, June 6th-9th 2017

F. Carvalho, R. Trindade, C. Relvas, T. Ferreira, J. Mirão, L.C. Alves, R.M.C. da Silva, **S. Coentro**, V.S.F. Muralha, *Cistercian Pavements from Santa Maria de Alcobaça Abbey: first examples of tin-glazed tiles in Portugal*, GlazeArch2015 - International Conference "Glazed Ceramics in Architectural Heritage" - LNEC, Lisbon, July 2nd-3rd, 2015

A.P. Alho, R. Trindade, **S. Coentro**, V.S.F. Muralha, *Um olhar sobre a documentação de Setúbal e a azulejaria medieval em Portugal*, GlazeArch2015 - International Conference "Glazed Ceramics in Architectural Heritage" - LNEC, Lisbon, July 2nd-3rd, 2015

A.P. Alho, R. Trindade, **S. Coentro**, V.S.F. Muralha, *Á luz da documentação: A azulejaria entre os séculos XIV e XVI na cidade de Lisboa, um estudo de proveniência*, Arquivo Municipal de Lisboa: Um acervo para a História II, Arquivo Municipal de Lisboa, 18-20 Março, 2015

I. Coutinho, **S. Coentro**, T. Medici, A. Lima, L. C. Alves, M. Vilarigues, *Chemical analysis of late medieval and early modern glasses from the archaeological excavation at Avenida Miguel Fernandes in Beja (Portugal)*, Society of Glass Technology, University of Durham, UK, Sep 10th-12th 2014

S. Coentro, R.A.A. Trindade, J. Mirão, L.C. Alves, R.C. da Silva, V.S.F. Muralha, *Hispano-Moresque Tiles in Portugal: The collections of Palácio Nacional de Sintra and Mosteiro de Santa Clara-a-Velha in Coimbra*, Medieval Pottery Research Group Annual Conference, Lisbon, Portugal, June 19th-21st, 2014

S. Coentro, R. A. A. Trindade, F. Martinho, J. Mirão, R. M. C. Silva, V. S. F. Muralha, "Hispano-Moresque glazed tiles from the National Palace of Sintra, Portugal: A non-destructive study", 13th International Conference of the European Ceramic Society (ECERS 2013), Limoges, France, June 23rd-27th, 2013.

Fares M., Pais A.N., Martins I. M., **Coentro S.**, Pereira S., Muralha V., Mimoso J. M., *Azulejo blues – an analytic study of the blue shades in Portuguese azulejos*, AZULEJAR, Aveiro, 10-12th October 2012

Coentro S., Trindade R., Mirão J., Candeias A., Alves L. C., Silva R., Muralha V., *Chemical characterisation of Hispano-Moresque tiles from the Monastery of Santa Clara-a-Velha in Coimbra, Portugal*, AZULEJAR, Aveiro, 10-12th October 2012

S. Canaveira, **S. Coentro**, A. Candeias, J. Mirão, T. Vale, V.S.F. Muralha, "Study of 18th century glass mosaics: The reds, oranges and carnagionni of Alessio Mattioli"ChemCH: Chemistry for Cultural Heritage, Istanbul, Turkey, 9th – 12th July 2012.

Coentro S., Alves L. C., Silva R., Muralha V., μ -Raman analysis of Hispano-Moresque historical tiles, 2nd International Congress "Chemistry for Cultural Heritage" (ChemCH), Istanbul, 8th-11th July 2012

Coentro S., Trindade R., Mirão J., Candeias A., Alves L.C., Silva R.C. da, Muralha V.S.F., *Architectural tiles in the Monastery of Santa Clara-a-Velha in Coimbra, Portugal: Study of the production techniques*. Global Pottery, Barcelona, 7-9th May 2012

Coentro, Susana. *Estudo das técnicas de produção do azulejo português: o papel da investigação científica*. Cores do Património: Conservação, Restauro e Comunidade. Caparica, Portugal, 7-8 Fevereiro 2012

Coutinho, Inês, **Coentro, Susana**. Vitorino, Tatiana. Garcia, Mariana. Lima, Augusta Moniz. *Jarra Grande em Vidro*, Conferências Internacionais de Design da Marinha Grande - Investigação, Vidro e Arte: Estratégias, Inovação e Criatividade. Marinha Grande, Portugal, 22-30 de Outubro de 2011

Coentro, Susana. Mimoso, João Manuel. Muralha, Vânia S. F., Lima, Augusta M., Silva, António Santos, Pais, Alexandre Nobre. *The colors and techniques of 17th century Portuguese Azulejos: a multi-analytical study*. Microscopy & Microanalysis 2011, Nashville, USA: 7-11 August 2011.

Coentro, Susana. Muralha, Vânia S. F., Mimoso, João Manuel. Lima, Augusta M., Silva, António Santos, Pais, Alexandre Nobre. *The yellow pigment in 17th Century Portuguese Azulejos.* TECHNART 2011 – “Non-destructive and microanalytical techniques in art and cultural heritage”, Berlin, Germany: April 26 - 29, 2011.

Coentro, Susana. Mimoso, João Manuel. Muralha, Vânia S. F., Lima, Augusta M., Silva, António Santos, Pais, Alexandre Nobre, *Multi-analytical study of the pigments in 17th Century Portuguese Azulejos.* International Conference: “SEM and microanalysis in the study of historical technology, materials and conservation (SEM2010)”, London: The British Museum, 9-10 September 2010.

Coentro, Susana, Medici, Teresa, Lima, Augusta, Vilarigues, Márcia, *Analysis of Medieval Glasses from the archaeological excavation at Avenida Miguel Fernandes in Beja*, ICOM Glass Annual Conference, Lisbon: 10-14 November, 2009.

Coutinho, Inês, Coentro, Susana, Gomes, Cristina E Lima, Augusta Moniz, *Jarra grande em vidro e Vaso de vidro – Museu do Vidro da Marinha Grande e Núcleo Museológico do Mosteiro de Santa Clara-a-Velha*, II Jornadas da Associação Profissional de Conservadores-Restauradores de Portugal - Tratamentos de Conservação e Restauro "A Prática da Teoria", Lisboa: 29 de Maio de 2009.

Mimoso, João M., Silva, António S., Abreu, Miguel M., Costa, Dória R., Gonçalves, Teresa D., Coentro, Susana. *Decay of historic azulejos in Portugal: an assessment of research needs*, International Seminar “Conservation of Glazed Ceramic Tiles: Research and practice”. Lisboa: Laboratório Nacional de Engenharia Civil, 15-16 Abril, 2009

POSTER COMMUNICATIONS

S. Coentro, C. Relvas, T. Ferreira, J. Mirão, R.A.A. Trindade, A. Pleguezuelo, R.C. da Silva, and V.S.F. Muralha. *15th-16th-century Hispano-Moresque glazes: a μ -Raman and SEM-EDS study.* 9th International Congress on the Application of Raman Spectroscopy in Art and Archaeology (RAA2017), Évora, Portugal, October 24th-28th 2017

S. Coentro, L.C. Alves, C. Relvas, J. Coll Conesa, A. Pleguezuelo, M. Nunes, J. Mirão, T. Ferreira, R. Trindade, R.C. da Silva, V.S.F. Muralha, *The ceramic bodies of Hispano-Moresque tiles: chemical and mineralogical characterization*, TECHNART 2017 – Non-destructive and microanalytical techniques in art and cultural heritage, Bilbao, Spain, May 2nd-6th, 2017

S. Coentro, F. Carvalho, F. Pulido Valente, C. Relvas, T. Ferreira, J. Mirão, L.C. Alves, R.C. da Silva, R.A.A. Trindade, V.S.F. Muralha, *The unique relief tiles from Sintra's National Palace, Portugal: Technology and context*, EMAC: 13th European Meeting on Ancient Ceramics, Athens, Greece, September 24th-26th, 2015

F. Carvalho, C. Relvas, T. Ferreira, J. Mirão, L.C. Alves, R.C. da Silva, R.A.A. Trindade, V.S.F. Muralha, **S. Coentro,** *Cistercian tiles from the Mosteiro de Alcobaça, Portugal, mirroring the art of Clairvaux Abbey: A technological study*, EMAC: 13th European Meeting on Ancient Ceramics, Athens, Greece, September 24th-26th, 2015

S. Coentro, C. Relvas, J. Coll Conesa, J. Mirão, T. Ferreira, V.S.F. Muralha, *Production technology of Hispano-Moresque ceramic tiles belonging to Portuguese and Spanish collections*, TECHNART 2015 – Non-destructive and microanalytical techniques in art and cultural heritage, Catania, Italy, April 27-30, 2015

A.S. Leal, **S. Coentro, S. Pereira, L. Fernandes, L.C. Alves, V.S.F. Muralha,** *The collection of Hispano-Moresque tiles from the Museum of the Roman Theatre, in Lisbon: chemical characterisation by μ -PIXE*, 14th International Conference on Nuclear Microprobe Technology and Applications, Padova, Italy, 6-11 July 6th-11th, 2014

V. Corregidor, C.P. Marques, R.C. Silva, P.A. Rodrigues, M. Vilarigues, T. Silva, S. Cabo Verde, M.L. Botelho, M.I. Prudêncio, **S. Coentro, V.S.F. Muralha, E. Alves L.C. Alves,** *Combination Of Iba Techniques To Study Art-Historical Objects Using A Microprobe*, 2nd Luminescence in Archaeology International Symposium, Lisbon, Portugal, 5-7 September 2012.

S. Coentro, R. A. A. Trindade, V. S. F. Muralha, L. Cerqueira, R. M. C. Silva, *Study of Hispano-Moresque tiles from the Monastery of Santa Clara-a-Velha in Coimbra, Portugal, using μ -PIXE*, 13th International Conference on Nuclear Microprobe Technology & Applications, Lisbon, Portugal, 22-27 July 2012.

Coentro S., Silva R.C. da, Muralha V.S.F., *Analysis of Hispano-Moresque architectural tiles by μ -Raman spectroscopy*. Global Pottery, Barcelona, 7-9th May 2012

Pereira, Sílvia R. M.; Coentro, Susana; Silva, António Santos; Muralha, Vânia S. F.; Mimoso, João M. *Physical-chemical characterization of historical Portuguese tiles*. IX Congresso Ibérico de Arqueometria (CIA), Lisboa: Fundação Calouste Gulbenkian, 26-28 de Outubro 2011

Coentro, Susana. Silva, Rui. Trindade, Rui. Muralha, Vânia S. F., *Manganese Black in Medieval Azulejos from Portugal*, EMAC: 11th European Meeting on Ancient Ceramics, Natural History Museum Vienna, Austria, 29th Sep – 1st Oct 2011

Lima, Augusta; Garcia, Mariana; Coentro, Susana; Coutinho, Inês; Coelho, João M. P.; Almeida, Teresa; Carvalho, Catarina. *Conservation and restoration of glass in the 21st century: filling gaps using a 3d printer*. GLASSAC – Glass Science in Art and Conservation, Bronnbach Monastery, Germany: 10-12 May, 2011.

Mimoso, João Manuel. Silva, António Santos. Coentro, Susana. *Characterization of the cracking system in 17-18th century Portuguese Azulejos by SEM*. International Conference: “SEM and microanalysis in the study of historical technology, materials and conservation (SEM2010)”, London: The British Museum, 9-10 September 2010.

Coentro, Susana. Mimoso, João Manuel. Muralha, Vânia S. F., Lima, Augusta M., Silva, António Santos, Pais, Alexandre Nobre. *Chemical and Morphological Characterization of the Pictorial Layer in 17th Century Portuguese Azulejos*. International Congress “Chemistry for Cultural Heritage (ChemCH)”, Ravenna, Itália: 30 de Junho a 3 de Julho de 2010.

POSTERS IN EXHIBITIONS

F. Carvalho, C. Relvas, T. Ferreira, J. Mirão, L.C. Alves, R.C. da Silva, R.A.A. Trindade, V.S.F. Muralha, S. Coentro, *Ladrilhos Cistercienses do Mosteiro de Alcobaça, Portugal: um estudo sobre a técnica decorativa e a tecnologia de produção*, Exposição Vivências no Mosteiro de Alcobaça, Fev-Jul 2016

Crystallography for Humankind – Poster “Understanding Crystallography - Mathematics and Art”, International Year for Crystallography, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Caparica, Portugal, June-October 2014

MATER – Matemática no Planeta Terra – Poster “A Simetria na Arte”, International Year Mathematics of Planet Earth 2013, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Caparica, Portugal, October- December 2013

TEACHING AND SUPERVISING EXPERIENCE

CO-SUPERVISION OF MASTER'S THESES

2013-2014: Master's Thesis in Conservation and Restoration: *Estudo da Tecnologia de Produção de Azulejos Hispano-Mouriscos – Coleção de Azulejos Hispano-Mouriscos do Museu do Teatro Romano de Lisboa* (Trad. “Study of the production techniques of Hispano-Moresque tiles – the collection of the Museum of the Roman Theatre in Lisbon”). Author: Ana Sofia Leal. Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa.

2011-2012: Master's Thesis in Conservation and Restoration: *Glass mosaics from the João São Baptista Chapel: material characterization and conservation*. Author: Sara Canaveira. Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa.

SUPERVISION OF RESEARCH PROJECTS

2017-2018: *Study of the cuerda-seca technique in historic Hispano-Moresque tiles*. Student: Bruna Primo. Research conducted for the course *Projeto I* from the Master in Conservation and Restoration (FCT-UNL).

2014-2015: *Estudo e Caracterização Material de Pavimentos Medievais do Mosteiro de Santa Maria de Alcobaça*. Student: Fernanda Carvalho. Research conducted for the courses *Projeto I* and *Projeto II* from the Master in Conservation and Restoration (FCT-UNL).

CO-SUPERVISION OF RESEARCH PROJECTS

2014: *Estudo do pigmento Amarelo de Nápoles na azulejaria portuguesa entre os séculos XVI e XIX*. Author: Catarina Geraldes. Research conducted for the course *Projeto II* from the Master in Conservation and Restoration (FCT-UNL).

2014: *Caracterização de faianças provenientes da escavação arqueológica do Convento de Santana, Lisboa*, Author: Raquel Emiliano, Research conducted for the course *Projeto II* from the Master in Conservation and Restoration (FCT-UNL).

2014: *Caracterização de um painel de azulejos persa do século XVII*. Author: Raquel Fernandes, Research conducted for the course *Projeto II* from the Master in Conservation and Restoration (FCT-UNL).

2013: *Estudo dos vidrados azuis em azulejos Hispano-Mouriscos das coleções do Museu do Teatro Romano de Lisboa e do Mosteiro de Santa Clara-a-Velha, Coimbra*. Author: Ana Sofia Leal. Research conducted for the course *Projeto II* from the Master in Conservation and Restoration (FCT-UNL).

TEACHING EXPERIENCE

2016: *História e Técnicas de Produção Artística (Technical Art History)* - Module "Ceramics", Master in Conservation and Restoration (FCT-UNL).

2011-2018: Assistant teaching to the course: *Introdução à Conservação e Restauro (Introduction to Conservation and Restoration)*, Bachelor in Conservation and Restoration (FCT-UNL), and in the courses *História e Técnicas de Produção Artística (Technical Art History)*, *Métodos de Exame e Análise II (Analytical Methods)*, *Projeto I* and *Projeto II* from the Master in Conservation and Restoration (FCT-UNL).

FUNDED R&D PROJECTS

Title: *An Iberian Heritage: Hispano-Moresque Architectural Tiles in Portuguese and Spanish Collections*

Funding: Fundação para a Ciência e Tecnologia: (SFRH/BD/73007/2010)

Duration: 2011-2015

Funded PhD Grant: Susana Coentro

Title: AZ-MED – Azulejaria Medieval em Portugal – um Estudo de Proveniência
Funding: Fundação para a Ciência e Tecnologia (PTDC/CPC-EAT/4719/2012)
Duration: 2012-2015
Principal Investigator: Vânia F. S. Muralha

Title: "Glass and Ceramic for the Arts" (VICARTE)
Funding: Fundação para a Ciência e Tecnologia (UID/EAT/00729/2013)
Duration: 2014-2017
Coordinator: Márcia Vilarigues

ADDITIONAL TRAINING

- 2014 (Nov): Course “A Chemometric Approach”, with Dr. João Lopes (FCT-UNL).
 - 2009 (Nov): Workshop: “Preparing thin-cut polished cross-sections with Buehler equipment” – National Laboratory of Civil Engineering (LNEC), in Lisbon.
 - 2008 (Out-Dez): Course “Introduction to Iconography”, with Dr. Ana Paula Rebelo Correia (15h) (Centro Científico e Cultural de Macau, Lisboa).
 - 2007 (Dez): Workshop “Treatment and monitoring of biological colonies” in the stone statues of the gardens in the National Palace of Queluz (12h) (WMF-P, IMC, FCT-UNL).
 - 2007 (Nov): Course “Tiles and ceramic decorations in Romantic architecture – history, techniques, conservation and restoration” (14h) (Museu Nacional Soares dos Reis, Porto).
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PRACTICAL EXPERIENCE IN ANALYTICAL METHODS

Autonomous use of the equipment and data treatment: μ -EDXRF and μ -Raman.

Supervised use of the equipment and autonomous data treatment: μ -PIXE and SEM-EDS.

Autonomous data treatment: μ -XRD and LA-ICP-MS.

AWARDS

2018: “SOS Azulejo” Prize for Best PhD Thesis in the category “Material characterization of ceramic tiles”

2016: Runner-up in 2016 JMIS “Best Article” Award: F. Carvalho, **S. Coentro**, I. Costeira, R.A.A. Trindade, L.C. Alves, R.C. da Silva, and V.S.F. Muralha (2016), The Cistercian glazed tiles of the Monastery of Alcobaça: characterization of the colour palette, *Journal of Medieval Iberian Studies*, 8 (2): 196-216. DOI: 10.1080/17546559.2016.1222447

2011: Distinguished Student Award – Microanalysis Society of America. Award granted during the M&M annual conference (Nashville, Tennessee, USA, August 2011)

2011: Best Student Award: Student with the highest classification to conclude the Master in Conservation and Restoration (FCT-NOVA University) in the academic year of 2009-2010

2009: Best Student Award: Student with the highest classification to conclude the Bachelor in Conservation and Restoration (FCT-NOVA University) in the academic year of 2007-2008

PROFESSIONAL ASSOCIATIONS

ICOM member

Member of the Portuguese Glass and Ceramics Society (SPCV)

Collaborating member of the Institute of Medieval Studies (IEM-FCSH – NOVA University)

Almada, December 11th, 2019

Susana Xavier Coentro