


# Somayeh Noghani, Ph.D

## Current Academic Position

### Assistant Professor of Conservation and Restoration

Faculty of Conservation and Restoration, Iran University of Art, Tehran, Iran

- Research Deputy Head, Faculty of Conservation and Restoration
- Head of the Department of Conservation and Restoration of Cultural and Historical Objects

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## EDUCATION

### **Ph.D.** in Conservation and Restoration of Cultural and Historical Objects

Art University of Isfahan, Isfahan, Iran

Jan. 2017

- Dissertation Title: Optimizing the Desalination of Historical Non-Glazed Potteries Based on Mass Transfer Phenomenon Analysis in Immersing System
- Supervisors: Dr. Mohammadamin Emami; Dr. Mohammad C. Amiri

### **M.A** in Conservation and Restoration of Cultural and Historical Objects

Art University of Isfahan, Isfahan, Iran

Mar. 2011

- Thesis Title: Archaeometrical Investigation on Clinky Pottery according to Mineralogical Studies in Si-Ca-Mg System
- Supervisors: Dr. Mohammadamin Emami

### **B.A** in Conservation and Restoration of Cultural and Historical Objects

Art University of Isfahan, Isfahan, Iran

July 2008

- Title: Technological and Pathological Studies on Historical Wallpaper of Vasiq Ansari House – Qajar Period, Isfahan, Iran- and Restoration process on it
- Supervisors: Dr. Hesam Aslani

## PEER-REVIEWED RESEARCH PROJECT, GRANTS & FELLOWSHIPS

### **ELETTRA Synchrotron (TOMOLAB Offline Facilities), Italy**

*Principal Investigator* | To be scheduled

Project title: *High-Resolution 3D Imaging of Microstructures and Production Techniques in Self-Glazed Potteries Using Synchrotron X-ray Micro-Computed Tomography*

Proposal No.: 20258036

### **ELETTRA Synchrotron (SISSI Materials Science Beamline), Italy**

*Co-Investigator* | To be scheduled

Project title: *Studying Paper and Ink Components by Synchrotron Infrared Spectroscopy*

Note: Third phase of the project approved in 2023

Proposal No.: 20263034

### **ELETTRA Synchrotron (SISSI Materials Science Beamline), Italy**

*Co-Investigator* | 2024

Project title: *Studying Paper and Ink Components by Synchrotron Infrared Spectroscopy*

Note: Second phase of the project approved in 2023

Proposal No.: 20240042

### **ELETTRA Synchrotron (SISSI Materials Science Beamline), Italy**

*Co-Investigator* | 2023

Project title: *Studying Paper and Ink Components by Synchrotron Infrared Spectroscopy*

Proposal No.: 20230522

### **International Fellowship – Johanna Quandt Young Academy (JQYA), Goethe University Frankfurt, Germany**

*Principal Investigator* | 2022–2023

Project title: *Connectivity in the Diaspora: An Archaeometrical Perspective on Kura-Araxes Pottery Assemblages*

### **SESAME Synchrotron (MS/XPD Beamline), Jordan**

*Principal Investigator* | 2021–2022

Project title: *Mineralogical–Geological Connections in Archaeological Potteries from the Sirvan Historical Site, Iran: New Insights from SR-based X-ray Powder Diffraction*

Proposal No.: 20210019

## PEER-REVIEW JOURNAL PUBLICATIONS

- Maziar, S., & **Noghani, S.** (2026). *Diaspora or diversity? Technological and social insights from Kura-Araxes pottery assemblages in Iran*. *Journal of Archaeological Science: Reports*, 73, 105795. <https://doi.org/10.1016/j.jasrep.2026.105795>
- Abedian Jelodar, Z., & **Noghani, S.\*** (2025). *Innovative Application of Traditional Paper Marbling Technique in the Fabrication of Ceramic Glazes*. *International Journal of Ceramic Engineering & Science*, 2025; 7:e70027. <https://doi.org/10.1002/ces2.70027>
- **Noghani, S.\***, Sharifinia, A., Emami, M., Rozatian, A. S. H., Abdellatief, M., & Khanzadi, M. (2025). *Geochemical provenance studies of cultural materials from Sirvan historical Site, Ilam Province, Iran*. *Journal of Archaeological Science: Reports*, 66, 105302. <https://doi.org/10.1016/j.jasrep.2025.105302>.
- **Noghani, S.** (2025). *A Review of the Concept and Strategic Actions of Preventive Conservation*. *KCR* 2025; 8 (1) :43-50, URL: <http://journal.richt.ir/kcr/article-1-280-fa.html> (in Persian)
- **Noghani, S.\***, Sharifinia, A., Shokrzadeh, M., & Khanzadi, M.J. (2024). *Archaeo-metallurgical Analysis of Iron Slag belonging to the Archaeological Site of Sirvan - Elam province, SW Iran*. *JRA*.10 (1) :51-68. doi:10.61186/jra.10.1.424 (in Persian)
- **Noghani, S.\***, Modarresi, P., & Jafari, R. (2024). *Rereading the Preparation methods of Minium, Vermilion and Realgar Based on the Text of Ten Historical Treatises from the 4th to the 11th Century AH*. *Journal of Studies in Color World*, 14 (3): 237-252. (in Persian)
- **Noghani, S.**, Jafari, R., & Modarresi, P. (2023). *Application of Colorimetry for Compative Study of Minium Pigment in Five Safavid Illustrated Manuscript Belonging to the National Museum of Iran*. *KCR*, 6 (4) :36-53. (in Persian)
- Khanzadi, M.J., **Noghani, S.\***, & Sharifinia, A. (2022). *Investigation on Structure of Potsherds from Sirvan Historical Site according to XRF and XRD Analysis*. *Pazhohesh-ha-ye Bastanshenasi Iran*, Vol. 11 (31), 103-126. (in Persian). DOI:10.22084/NB.2021.23256.2261
- Khanzadi, M. J., **Noghani, S.\***, & Sharifinia, A. (2022). *Study of Chemical Structure of Glass Samples belongs to Sirvan Historical Site, Ilam Province*. *Iranian Journal of Ceramic Science and Engineering*. Vol. 11 (1), 1-21 (in Persian). URL: 20.1001.1.23222352.1400.10.0.13.6
- **Noghani, S.** (2021). *Application of solvent-gel system in restoration of cultural heritage*. *KCR*, 4(3), 47–62. URL: <http://journal.richt.ir/kcr/article-1-148-fa.html> (in Persian).
- **Noghani, S.** (2021). *Investigation on the Role of Porosity in the Structure of Historical Ceramics*. *Iranian Journal of Ceramic Science and Engineering*, 10 (3), 76-90 (in Persian).

URL: 20.1001.1.23222352.1400.10.0.2.5

- Modaresi, P., Jafari, R., & **Noghani, S.** (2021). *Recognition of vermilion preparation method in the Safavid illustrated manuscripts through calorimetric analysis*. *Archaeometry*, Vol. 63 (6), 1327-1341. DOI:<https://doi.org/10.1111/arc.12677>
- **Noghani, S.\***, Modaresi, P., & Jafari, R. (2021). *Evaluation of Different Vermilion Treatment Methods Presented in Art Treatises of the 16th – 17th Centuries*. *Honar-ha-ye-Ziba Honar-ha-ye Tajassomi (Journal of fine Arts)*, Vol. 26 (2), 61-69 (in Persian). DOI:10.22059/JFAVA.2021.303982.666491.
- **Noghani, S.\***, Amiri, M. C., & Emami, M.A. (2018). *A new approach to the desalination process of archaeological potteries*. *Mediterranean Archaeology and Archaeometry* 18 (1), 255-267. DOI:10.5281/zenodo.1165366
- **Noghani, S.\***, Shirani, F., & Karimnejad, M.M. (2018). *Evaluation of X-ray microprobe nondestructive analysis for characterization of chemical composition of ancient glazes*. *Journal of Archaeological Study*, 9 (2), 193-210 (in Persian). DOI:10.22059/JARCS.2018.203938.142279
- **Noghani, S.\***, & Emami, M.A. (2017). *Quantitative investigation on firing products in oxidation atmosphere according to XRD analysis data in clay – base ceramics*. *Iranian Journal of Crystallography and Mineralogy*, 25 (3), 595 – 608. (in Persian). DOI: 10.18869/acadpub.ijcm.25.3.595
- **Noghani, S.\***, Amiri, M. C., & Emami, M.A. (2016). *Determining the effective parameters in desalination process of non-glazed potteries in immersing system using Response Surface Methodology*. *Scientific Journal of Maremat & Mémari-e Iran* 1 (12), 35 -50 (in Persian). URL: <http://mmi.aui.ac.ir/article-1-308-en.html>
- **Noghani, S.\***, Amiri, M. C., & Emami, M.A. (2016). *Use of electrical conductivity for monitoring of desalination process of historical potteries*. *Scientific Journal of Shimi va Mohandesi Shimi Iran (NSMSI)* 35 (4). 151-159. (in Persian). URL: [https://www.nsmsi.ir/article\\_25833.html?lang=en](https://www.nsmsi.ir/article_25833.html?lang=en)
- Amiri, M. C., **Noghani, S.**, & Emami, M.A. (2015). *Investigation on the role of agitation in the desalination process of ceramics*. *Conservation Science in Cultural Heritage* 15, 111-121. DOI: <https://doi.org/10.6092/issn.1973-9494/6173>
- **Noghani, S.\***, & Emami, M.A. (2014). *Mineralogical Phase Transition on Sandwich-like Structure of Clinky Pottery from Parthian Period, Iran*. *Journal of Periodico di Mineralogia* 83 (2). 171-185. DOI:10.2451/2014PM0010
- Emami, M.A., & **Noghani, S.\*** (2013). *An investigation of re-carbonation process and formation of secondary calcite in the texture of ancient potteries by petrographical method*. *Scientific Journal of Maremat & Mémari-e Iran*, 3 (5), 55-67. (in Persian). URL: <http://mmi.aui.ac.ir/article-928-1-fa.html>

- **Noghani, S.\***, & Emami, M.A. (2012). *Application of Pol. Microscopy for conservation of historic objects*. Maremat & Pezhouhesh, Specialized bi-quarterly journal on restoration of cultural works, 6 (12), 21 – 30 (in Persian).
- **Noghani, S.\***, & Emami, M.A. (2011). *Structural pattern of Parthian clinky pottery: an archaeometric study*. Scientific Journal of Archaeological Study, Tehran University, Iran, 2 (3), 15-34. (in Persian).  
URL:[https://jarcs.ut.ac.ir/article\\_28854.html?lang=en](https://jarcs.ut.ac.ir/article_28854.html?lang=en)
- **Noghani, S.\***, & Aslani, H. (2010). *A review on technology and pathology of wallpapers and fabric wallpapers in Vasiq Ansari House*. Maremat & Pezhouhesh, Specialized bi-quarterly journal on restoration of cultural works. 4 (8), 127-138 (in Persian).
- **Noghani, S.\*** (2009). *Application of microemulsion of oil in water for conservation of historic objects*. Maremat & Pezhouhesh, Specialized bi-quarterly journal on restoration of cultural works. 4 (7), 101-106 (in Persian).
- **Noghani, S.\*** (2012). *The study of pictorial signs of the Weaving Lady tablet from New-Elamite Period (8 century B.A.)*. Negareh, Scientific Journal of Faculty of Art, Shahed Univeristy, Iran. 23, 31-41.  
URL:[http://negareh.shahed.ac.ir/article\\_53.html?lang=en](http://negareh.shahed.ac.ir/article_53.html?lang=en)
- **Noghani, S.\*** (2011). *A representation of an epic from the Vedas in the wall decoration of Vasiq Ansari House in Isfahan*. Scientific Journal of Pazhuhesh-e Honar, 1 (2), 57-66.  
URL: <https://ph.aui.ac.ir/files/site1/pages/pajohesh2.pdf>

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## CONFERENCE PRESENTATION

- Jafari, R., Noghani, S., & Modarresi, P. (2024). *Colorimetry of reproduced minium pigment based on book treatises: A case study of Safavid period court manuscripts from the National Museum of Iran*. Thirteenth Biennial Conference on the Conservation and Restoration of Historical-Cultural Objects and Architectural Decorations, Tabriz, Iran.
- Noghani, S., Khanzadi, M. J., Sharifinia, A., & Eslami, M. (2021). *Geochemical investigation of potteries from the Sirvan historical site, Iran*. European Meeting on Ancient Ceramics (EMAC), WAITINGFOREMAC2023@Pisa Event, July 8, Online presentation.
- Noghani, S. (2019). *Material analysis and characterization of ancient potteries*. Open SESAME @ HERCULES Training School, October 29, SESAME, Allan, Jordan. Poster presentation.
- Sanayei, A. H., Samavat, F., Noghani, S., Esmaily, M., & Lameie Rashti, M. (2015). *Investigation and recognition of Mössbauer, PIXE, and XRF methods applied to representative Parthian-period potteries*. The Annual Physics Conference of Iran, Ferdowsi University of Mashhad, Mashhad, Iran. Poster presentation. (In Persian)
- Sanayei, A. H., Noghani, S., Samavat, F., Esmaily, M., & Lameie Rashti, M. (2014). *Structural investigation of clinky pottery from the Parthian period using XRF and PIXE analyses*. The Annual Physics Conference of Iran, University of Sistan and Baluchistan, Zahedan, Iran. Poster presentation. (In Persian)
- Sanayei, A. H., Esmaily, M., Samavat, F., Noghani, S., & Lameie Rashti, M. (2013). *Similarities and differences in the composition of Parthian-period clinky potteries from Hamadan using XRD, XRF, and PIXE*. First National Conference on Particle Accelerators and Their Applications, November 27–28, Amir Kabir University, Tehran, Iran. Poster presentation. (In Persian)
- Noghani, S., & Emami, M. (2013). *The effect of mineralogical changes on the structure of ancient potteries: A case study of Parthian-period clinky pottery from Iran*. European Meeting on Ancient Ceramics (EMAC), September 19–23, Padova, Italy. Poster presentation.
- Noghani, S., & Emami, M. (2011). *Archaeometrical investigation of ancient potteries: Necessities and methods*. First Symposium on Materials Science, Conservation, and Cultural-Historical Objects, March 1, Iran Research Center of Materials and Energy, Karaj, Iran. Oral presentation. (In Persian)
- Noghani, S., & Emami, M. (2010a). *The importance of structural studies of ancient potteries in the conservation and restoration of cultural heritage*. Art University of Isfahan, December 31, Isfahan, Iran. Oral presentation. (In Persian)

- Noghani, S., & Emami, M. (2010b). *Secondary calcite in the texture of pottery from Persepolis, Iran*. 38th International Symposium on Archaeometry (ISA 2010), May 10–14, Tampa, FL, United States. Poster presentation.

## LECTURES

- Invited Lecture: “*The Role of Interdisciplinary Sciences in the Conservation of Historical Glass*”, Welcome to the Age of Glass Conference, Iran University of Art and the Glass and Ceramic Museum of Iran, Tehran, Iran (2025).
- Scientific Secretary and Invited Speaker, Specialized Session on “*Instrumental Tools and Analytical Methods in the Study and Conservation of Historical and Cultural Objects*”, Gāh-e Negāhdāsht Scientific Seminar Series, Malek National Library and Museum Institute, Tehran, Iran (2025).
- Invited Lecture: “*The Stories Told by Glass: A Scientific Perspective on Ancient World Technologies*”, Iran University of Art and the Glass and Ceramic Museum of Iran, Tehran, Iran (2024).
- Invited Lecture: “*Principles of Academic Article Writing*”, Iran University of Art, Tehran, Iran (2024).
- Invited Lecture: “*Concept of Preventive Conservation*”, The series of meetings "Discussions on the conservation and restoration of Artefacts", Conservation and Restoration Research Institute, Tehran, Iran (2023).
- Invited Lecture: “*Archaeometry: Necessities and capacities*”. International Museum Day meeting, Iran University of Art, Tehran, Iran (2019).
- Invited Lecture: “*Application of Synchrotron in analytical approach of cultural heritage*”. Iran University of Art, Tehran, Iran (2019).
- Invited Lecture: “*The importance of porosity in the structure of historical materials*”. Iran University of Art, Tehran, Iran (2019).
- Invited Lecture: “*Investigation on the influence of burial environment on archeological potteries*”. 15<sup>th</sup> Iranian Soil Science Congress, Aug. 28 – 30, Isfahan University of Technology, Isfahan, Iran (2017).

## ACADEMIC SERVICE & PROFESSIONAL ENGAGEMENT

### International Standardization & Policy Engagement

- **Secretary**, INSO/ISO/TC46/SC10 – *Storage and Preservation Standards for Archives and Libraries*  
Iranian National Standardization Organization (INSO) | 2021–2024
- **National Representative**, Iranian National Standardization Organization (INSO)  
ISO/TC46 General Assembly | 2022–2023
- **Member**, Working Group on *Information and Documentation – Collections Management for Archives and Libraries*  
INSO ISO/TR 3992:2021 | Iranian National Standardization Organization
- **Member**, Working Group on *Information and Documentation – Management of Environmental Conditions for Archive and Library Collections*  
INSO 23135:2022 (aligned with ISO/TR 19815:2018) | Iranian National Standardization Organization
- **Member**, 55th Plenary Session  
National Committee for Cultural Heritage, Tourism and Handicrafts  
Iranian National Standardization Organization (INSO) | 2022

### Academic & Professional Service

- **Reviewer**, Research Proposals  
Iranian National Science Foundation (INSF), Art Studies Section
- **Chair**, Art and Architecture Section  
39th International Khwarizmi Festival | Iranian Research Organization for Science and Technology (IROST), 2025
- **Member**, Scientific Committee  
13th Biennial Conference on Conservation of Cultural Heritage | 2024
- **Peer Reviewer** for academic journals, including:  
*Journal of Archaeological Studies; Athar; Journal of Maremat & Me'mari-e Iran; Journal of Architecture in Hot and Dry Climate; Journal of the Iranian Association of Museum, Conservation and Restoration*

## Professional Memberships

- **Member**, International Council of the Iran University of Art, Iran
- **Member**, Board of Directors; Iranian Association of Museum, Conservation and Restoration

## SELECTED PROFESSIONAL DEVELOPMENT

- Open SESAME – HERCULES two weeks training school in Synchrotron, Allan, Jordan. 26 Oct. to 7 Nov. (2019).
- Theoretical and practical workshop in X-ray Diffraction, Tehran University, Faculty of Material Engineering (2019)
- Proposal writing workshop on effective communication with SESAME, International Scientific Studies and Collaboration (CISSC), Tehran (2024)

## TEACHING EXPERIENCE (Graduate Level)

### Doctoral Program (PhD)

- *History of Conservation Science and Related Disciplines*

### Master's Programs (MA)

- *Research in Manufacturing Technologies of Artworks*
- *Advanced Methods in Conservation and Restoration*
- *Identification of Organic Materials in Cultural Heritage Objects*
- *Identification of Inorganic (Mineral) Materials in Cultural Heritage Objects*
- *Chemistry of Conservation and Restoration*
- *Conservation of Artworks and Interdisciplinary Sciences*

- *Preventive Conservation in Museums*
- *Chemistry of Conservation*

## **RESEARCH INTEREST**

- Conservation of Cultural Heritage
- Interdisciplinary Approaches in Heritage Science
- Scientific Analysis and Material Characterization of Archaeological Materials
- Preventive Conservation