Myrto Kalofonou

chemical engineer

myrtle.kalof@gmail.com

kalofonou.myrto@ucy.ac.cy

Date of Birth: 1994
Address: Nicosia | Cyprus

LABORATORY SKILLS

- Advanced knowledge of Physicochemical Analysis and interpretation of experimental data (pXRF, XRD, DTA-TG, FT-IR, Optical Microscopy, Cathodolluminescence, etc.)
- On site non-destructive measurements (hh-microscopy, infrared camera, GPR, ultra sonic testing, etc.)

COMPUTER SKILLS

- Advanced knowledge of MS Office (Word, Excel, PowerPoint, MS Project)
- Website building (WIX)
- Canva desing tool
- Basic knowledge of COMSOL Multiphysics, Python 3.8, Fortran, Mathcad

SOFT SKILLS

- Analytical, Methodical, Communicative,
- Organizational Skills, Problem Solving Skills
- Team worker, imaginative, passionate

LANGUAGES

Greek (native)
English (C2, fluent)
French (B2, conversetional)

VOLUNTEER WORK

- Annual Researcher's Night NTUA (2017 & 2018)
- 'Open Laboratories': education action for the 100 year anniversary of the Chemical Engineering department of NTUA
- ARCHELON (2013) The Sea Turtle Protection Sociaty of Greece
- 3rd Half Marathin of Athens
- Teaching ,organising social events & building a website fot for the Cyprus Swing Dance Community

EXTRACURRIVULAR ACTIVITIES/HOBIES

Jazz Dancing, Yoga, Swimming, Reading, Linocut carving & printing, water colour & acrylic painting

An energetic, motivated and fast-learning individual specializing in **material science** and **archaeometry**. She has participated in projects concerning ancient technologies and the conservation and protection of monuments and has experience in the characterization of ancient buildng materials, with a specialisation in mortars, and the design, preparation and evaluation of lime-based restoration mortars.

EDUCATION

University of Cyprus | 2021-today
PhD candidate (PlaCe-ITN fellow)
"Sampling, characterization and reproduction of ancient composite materials from Cyprus with emphasis on hydraulic lime plasters"

This research project deals with investigation of plasters & mortars from island of Cyprus, with a special emphasis on hydraulic plasters, used from the Cyprio-Classic until the Early Christian period. The main goals of the research is the understanding of evolution of technology in the production of plasters, the relation between the function of a structure (cistern, baths, production site, etc) and the type and characteristics of the composite material used in that structure and the development and implementation of mortar recipies inspired by the ancient material that could also be used as a material for the restoration of monuments (evaluation of compatibility with the ancient material).

National Technical University of Athens | 2017-2019
M.Sc.: "Protection of Monuments"- Direction of "Materials and Conservation Interventions"
GPA: 9,42/10,00 (Top of the class)
Master Thesis: 'Characterization of historic mortars from the Holy Aedicule of the Holy Sepulchre in Jerusalem and investigation of possible restoration mortars',

---

National Technical University of Athens | 2012-2017
Department of Chemical Engineering
GPA: 8,50/10,00 (Top 20% of class)
Specializing in Material Science
Thesis: 'Characterization of historic mortars from the East and West masonry from the Holy Aedicule of the Holy Sepulchre in Jerusalem'

PROFESSIONAL EXPERIENCE

Special Scientist, NCSR "DEMOKRITOS" | Sep 2020-Jul 2021

- Implementetion aligned CNT growth on different types of membrane substrates via CVD for gas separation and characterization of membranes
- Design and implemetion a new CVD control system, problem solving and researching weak spots in the design or process

Tutoring | 2013-2017:

- Math, Physics, Chemistry, Biology (Middle school & Highschool students)

ORGANIZATION OF CONFERENCES

2022, Organazation, founding of Graduate Forum for Mediterranean Archaeology (FoMArc 2022)

2025 (ongoing), Organazation of the Postgraduate Cypriot Archaeology Meeting (PoCA 2025)

PARTICIPATION IN CONFERENCES

2024, 44th ISA, Melbourne, Oral Presentation: Building cisterns in ancient Cyprus: A diachronic study of plaster application and use.

2024, 4th ICAS-EMME,Nicosia , Poster Presentation: An Archaeometric Study of Plasters from the excavation site of Kition-Bamboula, Cyprus.

2023, 8th HAS Symposium, Athens, Oral Presentation: An Archaeometric Study of Hydraulic Plasters from the Roman Public Baths of Kourion, Cyprus.

2023, 29th EAA, Belfast, Oral Presentation: Building Idalion: An Archaeometric Study Of Plasters Used In Various Architectural Structures In The Ancient City-Kingdom Of Idalion.

2022, 1st FoMArc, Nicosia, Oral Presentation: Hellenistic to Roman Cyprus: An archaeometric study of hydraulic plasters in their context of use

Myrto Kalofonou

chemical engineer

myrtle.kalof@gmail.com

kalofonou.myrto@ucy.ac.cy

Date of Birth: 1994
Address: Nicosia | Cyprus

LABORATORY SKILLS

- Advanced knowledge of Physicochemical Analysis and interpretation of experimental data (pXRF, XRD, DTA-TG, FT-IR, Optical Microscopy, Cathodolluminescence, etc.)
- On site non-destructive measurements (hh-microscopy, infrared camera, GPR, ultra sonic testing, etc.)

COMPUTER SKILLS

- Advanced knowledge of MS Office (Word, Excel, PowerPoint, MS Project)
- Website building (WIX)
- Canva desing tool
- Basic knowledge of COMSOL Multiphysics, Python 3.8, Fortran, Mathcad

SOFT SKILLS

- Analytical, Methodical, Communicative,
- Organizational Skills, Problem Solving Skills
- Team worker, imaginative, passionate

LANGUAGES

Greek (native)
English (C2, fluent)
French (B2, conversetional)

VOLUNTEER WORK

- Annual Researcher's Night NTUA (2017 & 2018)
- 'Open Laboratories': education action for the 100 year anniversary of the Chemical Engineering department of NTUA
- ARCHELON (2013) The Sea Turtle Protection Sociaty of Greece
- 3rd Half Marathin of Athens
- Teaching ,organising social events & building a website fot for the Cyprus Swing Dance Community

EXTRACURRIVULAR ACTIVITIES/HOBIES

Jazz Dancing, Yoga, Swimming, Reading, Linocut carving & printing, water colour & acrylic painting

RESEARCH PUBLICATIONS

Kalofonou M., Ioannou I. 2025. "**An Archaeometric Study of Hydraulic Plasters from the Roman Public Baths of Kourion, Cyprus.**" AURA, (Special Issue, Conference proceedings, 8th HAS Symposium) (*In review*)

Apostolopoulou, M., Nikolaidis, I., Grillakis, I., **Kalofonou, M.**, Keramidas, V., Delegou, E. T., Karoglou, M., Bakolas, A., Lampropoulos, K. C., Mouzakis, C., & Moropoulou, A., 2019. "**The Plaka Bridge in Epirus: An Evaluation of New Building Materials for Its Restoration.**" Heritage, 2(2), 1136-1159. https://doi.org/10.3390/heritage2020074

Apostolopoulou, M., Keramidas, V., Galanaki, N., **Kalofonou, M.**, Skoula, C., Karoglou, M., Delegou, E. T., Mouzakis, C., Bakolas, A., Moropoulou, A., Pikoula, M., Kalagri, A., Farmakidou, E., & Michailidou, M., 2019). "**A Study on the Historical Materials of the Apollo Pythios Temple in Rhodes and the Evaluation of Potential Restoration Materials.**" Heritage, 2(1), 988-1022. https://doi.org/10.3390/heritage2010065

M. Apostolopoulou, E.T. Delegou, Emm. Alexakis, **M. Kalofonou,** K.C. Lampropoulos, E. Aggelakopoulou, A. Bakolas, A. Moropoulou, 2018. "**Study of the historical mortars of the Holy Aedicule as a basis for the design, application and assessment of repair mortars: A multispectral approach applied on the Holy Aedicule**", Construction and Building Materials, 181, 618-637, https://doi.org/10.1016/j.conbuildmat.2018.06.016

ACHIEVEMENTS-SCHOLARSHIPS

Marie Skłodowska-Curie Action Schollarship in the PlaCe-ITN EU project, 2021

Part of the 10th Cycle of ReGeneration (one of the largest employment and training program for young graduates in Greece), 2019

Thomaidio Award «ΘΩΜΑΪΔΕΙΟ ΒΡΑΒΕΙΟ» for research publication during the MSc studies, 2018

TRAINNING AND WORKSHOPS

PlaCe-ITN Trainning Courses (23) Characteristic examples:

1. Archaeological theory - past and current issues - Archaeological Research Unit, University of Cyprus - February 23th, 2022
2. Ceramic seriation and styles. The A-to-Z in ceramic studies - Archaeological Research Unit, University of Cyprus - July 13th, 2022
5. Raw materials resourcing, material properties for durable plasters and ceramics, and craftspeople's technological choices, KU Leuven - February 25th, 2022
6. Beyond the eye-ball and below the slip: EDXRF, XRD and FTIR for the study of archaeological ceramics and plasters, KU Leuven - May 31st, 2022
7. Lime and gypsum: historic production, processing methods and modern archaeometric research, KU Leuven - June 1st, 2022
13. Mineralogy and geochemistry of raw materials for plasters and ceramics, British School at Athens - April 24th - 28th, 2023
14.Ceramic petrography and elemental analysis, British School at Athens - April 24th - 28th, 2023
16. Experimental reproduction of ancient plasters, UTAM - May 21st-24th, 2023
17. Multivariate statistics for archaeology and data processing, The Cyprus Institute - June 13th, 2023
21. Organic residue analysis as a complementary method to the technological and compositional study of archaeological ceramics, University of Cambridge - November 2nd - 3rd, 2023

LinkedIn Learning: ReGeneration Soft Skills Training Path, 2020

Microscopy Techniques: Theory and Applications, NCSR, 2019

Inception Athens Course, TEE-TCG, 2017

PARTICIPATION IN RESEARCH PROJECTS

PlaCe-ITN (a Marie Skłodowska-Curie Action): Training the next generation of archaeological scientists: Interdisciplinary studies of pre-modern Plasters and Ceramics from the eastern Mediterranean (current)

CARMOF: New process for efficient CO2 capture by innovative adsorbents based on modified carbon nanotubes and MOF materials, 2020

Implementation of a diagnostic research program on the current status of the Temple of Apollo in the Acropolis of Rhodes, 2018 (University)

The conservation, reinforcement and repair interventions for the rehabilitation of the Holy Aedicule of the Holy Sepulchre in Jerusalem, 2017 (University)