

# Curriculum Vitae

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## PERSONAL INFORMATION



**First name:** Rogiros  
**Surname:** Illampas  
**Gender:** Male  
**Nationality:** Cypriot  
**Date of birth:** 05/11/1982  
**Address:** Amygdalias 2, Nea Ekali, 3112, Limassol Cyprus  
**Phone:** +357 99 466283  
**Email:** [rilamp01@ucy.ac.cy](mailto:rilamp01@ucy.ac.cy)  
**Affiliation:** Post-doctoral researcher, Department of Architecture, University of Cyprus

## EDUCATION AND TRAINING

### 2014 PhD in Civil Engineering

University of Cyprus, Department of Civil and Environmental Engineering, Cyprus

Thesis title: *'Experimental and computational investigation of the structural response of adobe buildings'*

### 2008 MSc in Conservation of Historic Buildings

University of Bath, Department of Architecture and Civil Engineering, UK

Thesis title: *'The use of stone in Cyprus vernacular architecture with particular reference to the Troodos area'*

### 2007 Diploma in Civil Engineering (Overall Grade: 7,67 / 10)

National Technical University of Athens, Department of Civil Engineering, Greece

Thesis title: *'Bioclimatic design of building facades'*

## RESEARCH & TEACHING INTERESTS

**Research interests** focus on (i) the development of novel building systems (e.g. bioclimatic modular masonry systems), (ii) the prototype production of sustainable, environmentally-friendly and energy-efficient construction materials (e.g. lime-, cement- and clay-based composites containing waste materials and recycled aggregates), (iii) the experimental and computational investigation of the structural and thermal response of masonry constructions (e.g. large scale laboratory testing of masonry walls and of full building models, numerical simulation and analysis of the static, dynamic and thermal response of masonry structures), (iv) the physico-mechanical characterization of construction materials through laboratory and in-situ testing (e.g. stone, mortars, adobes, timber, concrete) and (v) the protection of cultural heritage structures (e.g. analysis of the pathology of traditional building systems, structural appraisal of listed building and historic monuments, development of repair/retrofitting methods)

**Teaching interests** include Construction and Building Technology, Timber Structures, Concrete and Composite Structures Technology, Construction Materials Technology and Experimental Methods, Strength of Materials Laboratory Methods.

## RESEARCH EXPERIENCE

- 10/2017 – 02/2018** **Innovative Modular Brick Unit System for the Environmental Design of Building Envelopes**  
Role: Postdoctoral Researcher, Department of Architecture, University of Cyprus  
Funding Agency: University of Cyprus
- 09/2015 – 09/2017** **Development of an innovative modular brick unit for the construction of environmentally friendly and energy efficient masonry structures**  
Role: Postdoctoral Researcher, Department of Architecture, University of Cyprus  
Funding Agency: Scholarship granted by the “Shiakolas foundation”
- 01/2014 – 01/2015** **Analysis and design of earthquake resistant structures [ADERS]**  
Role: Postdoctoral Researcher, Department of Civil and Environmental Engineering, University of Cyprus  
Funding Agency: European Union (Marie Curie Actions – International Research Staff Exchange Scheme, FP7-PEOPLE-2010-IRSES)
- 06/2012 – 01/2013** **Mix design, production and adoption of optimized adobes as alternative, environmentally-friendly, building materials for contemporary and vernacular architecture [EPFO/ΠΠΟΙΟΝ/0609/41]**  
Role: Researcher, Department of Civil and Environmental Engineering, University of Cyprus  
Funding Agency: Cyprus Research Promotion Foundation
- 04/2010 – 04/2012** **Experimental and computational investigation of the structural response of adobe buildings [ΠΑΙΘΑΠΙ]**  
Role: Researcher, Department of Civil and Environmental Engineering, University of Cyprus  
Funding Agency: University of Cyprus
- 12/2009 – 04/2010** **Establishment of research infrastructure for the characterization of monumental building materials [NEAYΠΠΟΔΟΜΗ/NEKYΠ/0308/17]**  
**01/2013 – 06/2013**  
Role: Researcher, Department of Civil and Environmental Engineering, University of Cyprus  
Funding Agency: Cyprus Research Promotion Foundation

## TEACHING EXPERIENCE

- 09/2015 - Present** **Special Scientist**  
Department of Civil Architecture, University of Cyprus  
Principal lecturer responsible for organizing and teaching the undergraduate course “APH 331.2 – Construction and Building Technology”  
Active participation in the 2015 and 2016 Synergy workshops organized in the framework of the course “APH 403.2 – Special Subjects in Architecture II – Architectural Constructions”
- 01/2015 - 06/2015** **Special Scientist**  
Department of Civil and Environmental Engineering, University of Cyprus  
Principal lecturer responsible for organizing and teaching the undergraduate course “CEE 233 – Construction Materials Laboratory”

**2008 - 2010**

**Teaching Assistant**

Department of Civil and Environmental Engineering, University of Cyprus  
Undergraduate courses “CEE 113 - Land Surveying”, “CEE 230 - Strength of Materials” and “CEE 432 - Masonry Materials”.

**PROFFESIONAL EXPERIENCE**

**2010 - Present**

Involved as a researcher at UCY in a number of consultancies (worth over €100,000) for the private and public sectors, regarding the in situ appraisal of monuments, the sampling and characterization of historic buildings materials (i.e. stone, adobe, timber, mortars) and the testing of materials for restoration works. Relevant consultancies include:

- Traditional mill in Athienou [2010] - Laboratory testing of adobe bricks
- Panagia Kophinou [2012] - Mineralogical analysis of mortars and determination of the compressive strength of masonry units
- Nursery in Kyperounta [2015] - Determination of the mechanical properties of building stones
- Chancellery of the Cyprus Ministry of the Interior [2016] - Laboratory testing of building stones
- Family Court and Industrial Disputes Tribunal (Former Supreme Court) [2015] - In situ analysis of decay mechanisms and sampling and laboratory testing of building materials
- Martinengo Cluster Churches in Famagusta [2016] - In situ inspection/ testing and sampling and characterization of building stones and mortars
- Othello Tower/Citadel in Famagusta [2015 & 2016] - Characterization of original and potential replacement stones
- Pancyprian Gymnasium in Nicosia [2016] - Characterization of structural timber and of timber flooring material
- Agios Panteleimonas Monastery Myrtou [2016] - Characterization of potential replacement structural timber
- Hagia Sophia Mosque in Mouttalos, Paphos [2016] - Sampling and characterization of building stones and jointing mortars
- Archangelos Michael Church in Lefkonoiko/Gecitkale [2017] - Mineralogical analysis of mortars
- Churches of Panagia in Askeia, Agios Artemon in Afaneia and Agios Andronicos in Kythrea [2017] - In situ testing and sampling and characterization of building stones and mortars
- Catacomb of Agios Herakledios [2017] - Determination of the mechanical properties of the bed rock

**SCHOLARSHIPS, AWARDS, DISTINCTIONS**

**2015-2017**

The ‘Shiocolas foundation’ scholarship for post-doctoral researchers

**MEMBERSHIPS**

- International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM)
- Cyprus Scientific and Technical Chamber (ETEK)
- Cyprus Civil Engineer’s Association (SPOLMIK)

**CERTIFICATIONS**

- NEBOSH international general certificate in occupational health and safety

# List of Publications

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## Journal Papers

- Illampas, R.**, Kyriakidis, A. and Michael, A. (2017) 'Computational evaluation of the thermal, environmental and structural performance of an innovative masonry system'. *Procedia Environmental Sciences*, vol. 38, pp. 812-820.
- Illampas, R.**, Ioannou, I. and Charmpis, D.C. (2017) 'Experimental assessment of adobe masonry assemblages under monotonic and loading-unloading compression', *Materials and Structures*, vol. 50, no. 79, <https://doi.org/10.1617/s11527-016-0952-z>.
- Illampas, R.**, Silva, R.A., Charmpis, D.C., Lourenço, P.B. and Ioannou, I. (2017) 'Validation of the repair effectiveness of clay-based grout injections by lateral load testing of an adobe model building', *Construction and Building Materials*, vol. 173, pp. 174-184.
- Kyriakides, N., Lysandrou, V., Agapiou, A., **Illampas, R.** and Charalambous, E. (2017) 'Correlating damage condition with historical seismic activity in underground sepulchral monuments of Cyprus', *Journal of Archaeological Science: Reports*, vol. 14, pp. 734-741.
- Kyriakides, A., Michael, A. and **Illampas, R.** (2016) 'Parametric numerical assessment of the thermal performance and environmental impact of an innovative masonry construction component', *Journal of Sustainable Architecture and Civil Engineering*, vol. 3, no. 16, pp. 6-19.
- Illampas, R.**, Charmpis, D.C. and Ioannou, I. (2014) 'Laboratory testing and finite element simulation of the structural response of an adobe masonry building under horizontal loading', *Engineering Structures*, vol. 80, no. 1, pp. 362-376.
- Illampas, R.**, Ioannou, I. and Charmpis, D.C. (2013) 'Overview of the pathology, repair and strengthening of adobe structures', *International Journal of Architectural Heritage*, vol. 7, no. 2, pp. 165-188.
- Illampas, R.**, Ioannou, I. and Charmpis, D.C. (2013) 'Adobe bricks under compression: experimental investigation and derivation of analytical stress-strain equation', *Construction and Building Materials*, vol. 53, no. 1, pp. 83-90.

## Chapters in Books

- Illampas, R.**, Charmpis, D.C. and Ioannou, I. (2015) 'Non-linear dynamic finite element analysis of adobe masonry structures with various roof diaphragm configurations', In: Psycharis, I., Pantazopoulou, V. and Papadrakakis M. (eds.) *Seismic assessment, behavior and retrofit of heritage buildings and monuments*, Springer.
- Illampas, R.**, Ioannou, I. and Castrillo, M.C. (2011) 'Earthen architecture in Cyprus', In: Mecca, S. and Dipasquale, L. (eds.) *Terra Europae - Earthen architecture in European Union*, Pisa: Edizioni ETS.

## Articles in Conference Proceedings

- Illampas, R.**, Loizou, V.G. and Ioannou, I. (2017) 'Effect of straw fiber reinforcement on the mechanical properties of adobe bricks'. *Proceedings of the 6th Biot Conference on Poromechanics*, Paris, France, 9-13 July.

- Illampas, R.**, Kyriakidis, A. and Michael, A. (2016) ‘Computational evaluation of the thermal, environmental and structural performance of an innovative masonry system’. Proceedings of the SBE16 International Conference on Sustainable Synergies from Buildings to the Urban Scale, Thessaloniki, Greece, 17-19 October.
- Kyriakidis, A., Michael, A. and **Illampas, R.** (2016) ‘Parametric numerical assessment of the energy efficiency and the environmental impact of an innovative masonry construction component’. Proceedings of the 5th International Conference on Renewable Energy Sources & Energy Efficiency – New Challenges, Nicosia, Cyprus, 5-6 May.
- Illampas, R.**, Ioannou, I., Theodoridou, M. and Fournari, R. (2016) ‘Characterization of masonry materials and structural analysis of the St Mary of Carmel Church in Famagusta’. Proceedings of the International RILEM Conference on Materials, Systems and Structures in Civil Engineering - Conference segment on Historical Masonry, Lyngby, Denmark, 22-24 August.
- Papadopoulos, G., Charmpis, D.C., **Illampas, R.** (2015) ‘Assessment of stone masonry walls with deterioration at their base using non-linear finite element analyses’, Proceedings of the 5th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN2015), Crete, Greece, 25-27 May.
- Illampas, R.**, Charmpis, D.C. and Ioannou, I. (2014) ‘Finite element simulation of the structural response of adobe buildings subjected to lateral loading’, Proceedings of the 9th International Conference on Structural Analysis of Historical Constructions (SAHC2014), Mexico City, Mexico, 14-17 October.
- Illampas, R.**, De Castrillo, M.C., Ioannou, I. and Theodosiou, A. (2011) ‘Earthen architecture in Cyprus’, Proceedings of the European Symposium on Building with Earth, Marseille, France, 4-5 May.
- Illampas, R.**, Charmpis, D.C. and Ioannou, I. (2011) 'Dynamic finite element analysis of earth masonry structures based on experimental material data', Proceedings of the III ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN2011), Corfu, Greece, 26-28 May.
- Illampas, R.**, Ioannou, I. and Charmpis, D.C. (2011) 'A study of the mechanical behaviour of adobe masonry', Proceedings of the 12th International Conference on Structural Repairs and Maintenance of Heritage Architecture, Chianciano Terme, Italy, 5-7 September.
- Illampas, R.**, Charmpis, D.C. and Ioannou, I. (2011) 'Finite element analysis of adobe masonry using experimentally derived material data', Proceedings of the 13th International Conference on Civil, Structural and Environmental Engineering Computing, Chania, Greece, 6-9 September.
- Illampas, R.**, Ioannou I., Charmpis, D.C. (2010) ‘A study of the deterioration and rehabilitation of adobe structures’, Proceedings of the 8th International Symposium on the Conservation of Monuments in the Mediterranean Basin, Patra, Greece, 31 May-2 June.
- Illampas, R.**, Ioannou I., Charmpis, D.C. (2010) ‘Destructive and non-destructive testing of hand-made adobe bricks’, Proceedings of the 13th International Conference on Structural Faults and Repairs, Edinburgh, U.K., 15-17 June.
- Illampas, R.**, Ioannou I., Charmpis, D.C. (2010) ‘An assessment of the compressive strength of adobe brick assemblages’, Proceedings of the 9th HSTAM International Congress on Mechanics, Limassol, Cyprus, 12-14 July.

**Illampas, R.,** Ioannou I., Charmpis, D.C. (2009) ‘Adobe: An environmentally friendly construction material’, Proceedings of the International Conference on Sustainable Development and Planning, Limassol, Cyprus, 13-15 May.

**Illampas, R.,** Ioannou, I. and Charmpis, D.C. (2009) ‘Adobe Monuments - Pathology, deterioration and restoration practices’, [In Greek], Proceedings of the 2009 National Workshop on the Restoration of Monuments and the Application of Interventions on Archeological Sites in Greece and Cyprus, Nicosia, Cyprus, 24 October.