

## ANDREAS KYRIAKIDIS

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### EDUCATION

<b>PhD</b> , Architecture, University of Cyprus, Cyprus	(2016 - Today)
<b>MSc</b> , Energy Technologies and Sustainable Design, University of Cyprus, Cyprus <i>Average Grade: 9.25 out of 10</i>	(2016)
<b>Diploma</b> , Civil Engineering, Aristotle University of Thessaloniki, Greece <i>Average Grade: 7.15 out of 10</i>	(2013)
<b>Apolitirion</b> , 3 <sup>rd</sup> Secondary School of Limassol (Lykeion), Cyprus <i>Average Grade: 19.4 out of 20</i>	(2006)

### RESEARCH EXPERIENCE

<b>01/2019-Today</b>	<b>Cyprus Methodology for Assessing the Energy Performance of Buildings</b> <u>Role:</u> Researcher, Special Scientist, Department of Architecture, University of Cyprus <u>Funding Agency:</u> Ministry of Energy, Commerce and Industry
<b>09/2018-Today</b>	<b>Energy-Autonomous Smart Buildings and Sustainable Mobility Strategies</b> <u>Role:</u> Researcher, Special Scientist, Department of Architecture, University of Cyprus <u>Funding Agency:</u> European Regional Development Fund
<b>10/2017-12/2018</b>	<b>Innovative Modular Brick Unit System for the Environmental Design of Building Envelopes</b> <u>Role:</u> Researcher, Special Scientist, Department of Architecture, University of Cyprus <u>Funding Agency:</u> University of Cyprus
<b>09/2016-01/2017</b>	<b>Energy and Environmental Design of Buildings</b> <u>Role:</u> Researcher, Special Scientist, Department of Architecture, University of Cyprus <u>Funding Agency:</u> University of Cyprus

### TEACHING EXPERIENCE

<b>01/2020-Today</b>	<b>Special Scientist Teaching</b> Department of Architecture, University of Cyprus, Nicosia Co-lecturer responsible for organizing and teaching the postgraduate course “APH 538 - Environmental Design of Buildings”
<b>01/2020-Today</b>	<b>Special Scientist Teaching</b> Department of Architecture, University of Cyprus, Nicosia Co-lecturer responsible for organizing and teaching the undergraduate course “APH 431 - Bioclimatic Architecture”
<b>01/2019-Today</b>	<b>Special Scientist Teaching</b> Department of Architecture, University of Cyprus, Nicosia Principal lecturer responsible for organizing and teaching the undergraduate course “APH 331.2 - Construction and Building Technology”
<b>09/2017-01/2018</b>	<b>Teaching Assistant</b> Department of Architecture, University of Cyprus, Nicosia, Cyprus, 2017-2018 Undergraduate courses: “ARH 230 - Construction I”, “ARH 233 - Construction II”, “ARH 330 - Construction III”, “APH 431 - Bioclimatic Architecture” Postgraduate course: “ARH 538 - Environmental Design of Buildings”

## PROFFESIONAL EXPERIENCE

- 09/2014-03/2015**     **Full-time research assistant**  
Department of Environmental Science and Technology, Cyprus University of Technology,  
Limassol Cyprus, 2014-2015  
Study of the energy performance of buildings
- 01/2014-08/2014**     **Full-time trainee**  
Town Planning and Housing Department, Ministry of Interior, Limassol, Cyprus, 2014  
Study planning permissions  
Design new roads

## RESEARCH INTERESTS

**Research interests focus on** (i) the development of novel building 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 hygrothermal 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 hygrothermal response of masonry structures), (iv) environmental design of buildings, (v) the physico-mechanical characterization of construction materials through laboratory and in-situ testing (e.g. stone, mortars, adobes, timber, concrete)

## PUBLICATIONS

- Kyriakidis A., Illampas R., Michael A., (2020) Parametric investigation for the improvement of the overall sustainable performance of an innovative masonry wall system.** *Procedia Manufacturing* 44 (2020) 286–293, Elsevier, DOI: <https://doi.org/10.1016/j.promfg.2020.02.233>
- Kyriakidis A., Michael, A., Illampas, R., Charmpis, D.C., Ioannou, I., (2019) Comparative Evaluation of a Novel Environmentally Responsive Modular Wall System Based on Integrated Quantitative and Qualitative Criteria.** *Energy* 188 (2019) 11596, Elsevier, DOI: <https://doi.org/10.1016/j.energy.2019.115966>
- Kyriakidis A., Michael, A., Illampas, R., Charmpis, D. C., & Ioannou, I. (2018). Thermal performance and embodied energy of standard and retrofitted wall systems encountered in Southern Europe.** *Energy*, 161, 1016-1027, Elsevier, DOI: [10.1016/j.energy.2018.07.124](https://doi.org/10.1016/j.energy.2018.07.124)
- Illampas R., Kyriakidis A., Michael A., (2017) Computational Evaluation of the Thermal, Environmental and Structural Performance of an Innovative Masonry System.** *Procedia Environmental Sciences* 38 (2017) 812-820, Elsevier, DOI: [10.1016/j.proenv.2017.03.166](https://doi.org/10.1016/j.proenv.2017.03.166)
- Kyriakidis A., Michael A., 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*, 3/16 (2016), 6-19, SACE, ISSN: 2029–9990, DOI: [10.5755/j01.sace.16.3.16174](https://doi.org/10.5755/j01.sace.16.3.16174)

## CONFERENCE PROCEEDINGS / PRESENTATIONS

- Kyriakidis A., Illampas R., Michael A., (2019) Parametric investigation for the improvement of the overall sustainable performance of an innovative masonry wall system.** 1<sup>st</sup> International Conference on Optimization-Driven Architectural Design, Amman, Jordan, 05-07 November 2019
- Michael A., Kyriakidis A., Michopoulos A., Kyritsi E., Stimoniaris D., Tsiamitros D., Kottas T. (2019) A case study of the energy refurbishment of a public building: Assessment of the current situation and evaluation of retrofit solutions.** Proceedings of the 12<sup>th</sup> International Conference on Energy and Climate Change, Athens, Greece, 09-11 October 2019

**A. Kyriakidis, A. Michael, R. Illampas, D.C. Charmpis, I. Ioannou. (2018) ‘Qualitative and Quantitative Assessment of an Innovative Exterior Masonry Wall System.’** 6th International Conference on Renewable Energy Sources and Energy Efficiency (RESEE2018), Nicosia, Cyprus, 01-02 November 2018

**A. Kyriakidis, A. Michael, R. Illampas, D.C. Charmpis, I. Ioannou. (2018) ‘Thermal Performance and Environmental Impact of an Innovative Exterior Masonry Wall System.’** Proceedings of the SEEP2018, 2018, UWS, Paisley, UK, 08-11May 2018

**A. Kyriakidis, A. Michael, R. Illampas, D.C. Charmpis, I. Ioannou. (2017) ‘Comparative Study on the Thermal Performance and Environmental Footprint of Traditional and Contemporary Masonry Systems used in Southern Europe.’** Proceedings of SEEP2017, Bled, Slovenia, 27-30 June 2017

Illampas R., **Kyriakidis, A., Michael, A., (2016) ‘Computational Evaluation of the Thermal, Environmental and Structural Performance of an Innovative Masonry System’,** Proceedings of the International Conference on Sustainable Synergies from Buildings to the Urban Scale, SBE16, Thessaloniki, Greece, 17-19 October.

**Kyriakidis, A., Michael, A., 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, 05-06 May.

## SKILLS

### Languages

English

### Computer Skills

MS Office Excel,  
MS Office Word  
MS Power Point,  
Energy Plus (Open studio-SketchUp),  
SBEM,  
AutoCAD  
SAP2000  
MATLAB  
COMSOL Multiphysics

## MEMBERSHIPS

Cyprus Scientific and Technical Chamber (ETEK)

## CERTIFICATIONS

Qualified Energy Expert for houses, Ministry of Energy, Commerce Industry and Tourism

## SCHOLARSHIPS, AWARDS, DISTINCTION

<b>2018/2019</b>	Scholarship for Doctoral Students- University of Cyprus
<b>2016-2018</b>	Scholarship for Doctoral Students- National Scholarships Foundation of Cyprus
<b>2008-2011</b>	Scholarship for Undergraduate Students- National Scholarships Foundation of Cyprus