



Academic Personnel Short Profile / Short CV

University:	University of Neapolis
Surname:	Markou
Name:	George
Rank/Position:	Associate Professor
Faculty:	EBIT
Department:	Civil Engineering
Scientific Domain: *	Computational Mechanics, Structures, Earthquake Resistant Design, A.I., Soil-Structure Interaction, Retrofitting

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD	2011	NTUA	Civil Engineering	
MSc	2005	NTUA	Civil Engineering	
BSc	2004	NTUA	Civil Engineering	

Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		Employer	Location	Position

From	To			
March 2024		Neapolis University Pafos	Cyprus	Associate Professor
Sep 2018		University of Pretoria	South Africa	Associate Professor
Jan 2018	Aug 2018	The University of Sheffield	UK	Visiting Researcher
Sep 2011	Aug 2017	ALHOSN University	UAE	Assistant and Associate Professor

Academic Staff Short Profile

Key <u>refereed</u> journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)						
Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2021	Prediction of the Shear Capacity of Reinforced Concrete Slender Beams without Stirrups by Applying A.I. Algorithms	Bakas P.N.	Computers and Concrete	28	433-447
2	2021	A New Damage Factor for Seismic Assessment of Deficient Bare and FRP-Retrofitted RC Structures	Garcia, R., Mourlas, C., Guadagnini, M., Pilakoutas, K. and Papadrakakis, M.	Engineering Structures	248	113152
3	2021	A New Method of Seismic Retrofitting Cost Analysis and Effectiveness for Reinforced Concrete Structures		Engineering Structures	246	113083
4	2021	Development of New Fundamental Period Formulae for Reinforced Concrete Structures Using Machine Learning Algorithms	Dewald Z. Gravett, Christos Mourlas, Vicky-Lee Taljaard, Nikolaos Bakas, and Manolis Papadrakakis	Soil Dynamics and Earthquake Engineering	144	106656

5	2021	State-of-the-art Investigation of Wind 112013 Turbine Structures Founded on Soft Clay by Considering the Phenomenon – Optimization of Battered RC Piles	Dewald Gravett SoilFoundation-	Engineering Structures Structure Interaction	235	
6	2021	Finite Element Modelling of Plain and Reinforced Concrete Specimens with the Kotsovos and Pavlovic Material Model, Smeared Crack Approach and Fine Meshes	Roeloffze W.	International Journal of Damage Mechanics	30	845-871
7	2020	The Effect of Soil-Structure Interaction on the Nonlinear Dynamic Response of Reinforced Concrete Structures	Mourlas, Ch., Khabele, N., Bark, H.A., Karamitros, D.,	International Journal of Structural Stability and Dynamics	20	204013
			Taddei, F. and Papadrakakis, M.			
8	2019	Seismic Assessment of Small Modular Reactors: NuScale Case Study for the 8.8 Mw Earthquake in Chile	Genco, F.	Nuclear Engineering and Design	342	176-204
9	2019	Accurate and Computationally Efficient Nonlinear Static and Dynamic Analysis of Reinforced Concrete Structures Considering Damage Factors	Mourlas, C. and Papadrakakis, M.	Engineering Structures	178	258-285
10	2022	Structural performance deterioration of corroding reinforced concrete columns in marine environments	Chen, H.P, Jiang, Y.	Ocean Engineering	In Press	

**Exhibitions (where applicable). List the five (5) more recent and other five (5) selected.
(max total 10)**

Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
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1	2021 Feb	Advanced 3D Detailed Modeling and its Use in Developing Predictive Models Through Machine Learning and Artificial Intelligence Algorithms	Local	TEPIAK	Invited Speaker
2	2020 Nov	Advances in 3D detailed modelling and A.I. applications	International	The University of Sheffield	Invited Speaker
3	2018 Feb	Computational Mechanics in Civil Engineering	International	University of Pretoria	
4	2017 Jul	Seismic Assessment of RC Structures through 3D Detailed Monotonic and Cyclic Simulations. Present Work and Future Challenges	International	The University of Sheffield	Invited Speaker
5	2015 Sep	3D Modeling of Reinforced Concrete Structures. Current Capabilities and Future Potentials	International	Queens University,	Invited Speaker
6	2015 Sep	3D Modeling of Reinforced Concrete Structures. Current Capabilities and Future Potentials	International	University of Western Ontario,	Invited Speaker
7	2015 Sep	3D Modeling of Reinforced Concrete Structures. Current Capabilities and Future Potentials	International	Ryerson University,	Invited Speaker
8	2015 Sep	3D Modeling of Reinforced Concrete Structures. Current Capabilities and Future Potentials	International	University of Ottawa	Invited Speaker
9	2015 Feb	Full-Scale 3D Modeling of RC Structures	International	American University in Dubai, UAE	Invited Speaker

10	2012 (2 seminars) and 2013 (1 seminar)	Continuing of Education Centre, Abu Dhabi, UAE Seminar Title: "Modeling and Design of Structures with ETABS".	Διεθνής	ALHOSN university	Organizer
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** Specify venue, geographic location etc*

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2022-2023	Development of Fundamental period Formulae through Deep Learning AI for RC and Steel Buildings with and without SSI effects	EuroCC (The Cyprus Institute)	PI
2	2021-2022	Developing Design Formulae for Reinforced Concrete Structures Through the Use of Large-scale Simulations and AI Algorithms	EuroCC (The Cyprus Institute)	PI
3	2021-2022	SMART R-INFRASTRUCTURE	NRF South Africa	PI
4	2020-2021	External Funding to NRF rated researcher	NRF South Africa	PI
5	2019-2020	Future of Reinforced Concrete Analysis (FU.RE.CON.AN.)	RDP, University of Pretoria, South Africa	PI
6	2018	Large-Scale Modeling of FEM models	UCSC internal research fund	PI
7	2015-2017	Time dependent vulnerability analysis for existing RC frame building	SECRETE, Erasmus Mundus, EU	PI

8	2012-2018	Mastering the computational challenges in numerical modeling and optimum design of CNT reinforced composites	FP7, EU	Supervising the research work package titled Dynamic Analysis of Composite Materials with Dumping
9	2010 - 2011	Seismic assessment of Reema Panel Buildings - Episcopi, Pilot Study and Option Study	Interserve Ltd - for MOD UK	Analysis through FEA software. Simulation and modeling consulting
10	2008 - 2011	Analysis of Reinforced Concrete Structures with the Finite Element Method	National Technical University of Athens	Young Researcher

**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees.				
List the five (5) more recent (Optional Entry)				
Ref. Number	Period	Organization	Title of Position or Service	Key Activities
1	14-18 Feb. 2022	Ministry of Education and Science, Latvia	Expert in Assessment and Accreditation (contract – 6 days project)	Civil Engineering Programme Evaluations
2	22-26 Nov. 2021	Centre for Quality Assessment in Higher Education (SKVC) Ministry of Education and Science of the Republic of Lithuania	Leader of a 6-member Review Team of experts (contract – 6 days project)	Organizing and executing all processes related to the evaluation of Civil Engineering Programmes in Lithuania

3 28	Nov. 2016 – 3 Dec. 2016 Assessment	Centre for Quality days project) in Higher Education (SKVC) Ministry of Education Science of Republic of Lithuania	Leader of a 5-member Review Team of experts (contract – 6 evaluation of Civil Engineering Programmes in Lithuania and the	Organizing and executing all processes related to the
4	2020-2025	National Research Foundation (NRF) South Africa	NRF rated researcher	Research
5	2011-2017	ALHOSN University	Member of the Editorial Board of the ALHOSN University J. of Eng. and Applied Science	Handling submissions and issues related to the journal

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)

Ref. Number	Date	Title	Awarded by:
1	2020	Academic Achievers Award	University of Pretoria, South Africa
2	2016	Highly Commended Paper	Emerald LiteratiNetwork

3	2015	Appreciation plaque received from AHU students as a gesture of appreciation for supporting and guiding them as their supervisor during the Wooden Bridge Competition	Students body, UAE
4	2012	ABET accreditation Award 2012	ALHOSN University, Abu Dhabi, UAE
5	2006-2009	A three-year scholarship from the J. Argyris foundation to a Ph.D. student for the completion of his thesis	John Argyris Foundation
6	2008-2010	Scholarship from the ELE (Account for Research – Ειδικός Λογαριασμός Έρευνας) department of NTUA to Ph.D. students	NTUA, Greece
7	2008-2010	Scholarship from the State Scholarship Foundation (I.K.Y. Ίδρυμα Κρατικών Υποτροφιών Ελλάδος), through a special financial support "Mobility and Scholarship Fund" of Greece	I.K.Y. Ίδρυμα Κρατικών Υποτροφιών Ελλάδος, Greece
8	2007	Award from the Thomaidio Foundation for publishing a paper before a year has passed from my bachelor's degree graduation.	Thomaidio Foundation, Greece
9	2002	Award Christou Papakiriakopoulou (in mathematics).	Christos Papakiriakopoulou Foundation, Greece
10	2001	Award Nicolaou I. Kritikou	Nicolaos I. Kritikou Foundation, Greece
11	1999-2004	Different awards (please see following link)	https://www.up.ac.za/civil-engineering/article/2729375/gmarkou

**Other Achievements. List the five (5) more recent and other five (5) selected.
(max total 10) (Optional Entry)**

Ref. Number	Date	Title	Key Activities:
1	2016	1st place in a National Academic Research competition 2016	Supervisor of the work

2	2019	1st Place in Final Year Research Project. More than 140 projects were submitted to the Civil Engineering Department. University of Pretoria. 2019	Supervisor of the work
3	2020	3rd Place in the South African Institute of Civil Engineering (SAICE) National Undergraduate Research Competition, 5 Feb. 2020, Durban, South Africa	Supervisor of the work
4	2014	News paper interview with the GULF TIME	Interviewee
5	2012-current	Organizing numerous field trips to Mega projects.	Organizer
6	2012-current	Organizing academic competitions like uniaxial compressive competition (in the lab) and soil settlement prediction (virtual).	Organizer