



Academic Personnel Short Profile / Short CV

University:	Cyprus University of Technology
Surname:	Costa
Name:	Marios
Rank/Position:	Special Teaching Staff
Faculty:	Faculty of Engineering and Technology
Department:	Department of Mechanical Engineering and Material Science and Engineering
Scientific Domain: *	Theoretical Physics, Supersymmetric Lattice Gauge Theories, Computational Physics

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD in Physics	2014	University of Cyprus	Department of Physics	Perturbative Study of Quark and Gluon Operators with Improved Actions on the Lattice
BSc in Physics	2010	University of Cyprus	Department of Physics	Study of Quarks with the SLiNC action



Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
January 2025	now	Cyprus University of Technology	Limassol, Cyprus	Special Teaching Staff
October 2021	December 2024	Rinnoco Ltd	Limassol, Cyprus	Chief Operating Officer
September 2019	May 2024	University of Cyprus	Nicosia, Cyprus	Postdoctoral Fellow

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	2012	Magnetic susceptibility of the QCD vacuum at zero and at finite temperature from the lattice	G. Bali, F. Bruckmann, M. Constantinou, G. Endrodi, Z. Fodor, S. D. Katz, S. Krieg, H. Panagopoulos, K. K. Szabo, A. Schafer	Physical Review D	86	094512
2	2013	Perturbatively improving regularization-invariant momentum scheme renormalization constants	M. Constantinou, M. Gockeler, R. Horsley, H. Panagopoulos, H. Perlt, P. E. L. Rakow, G. Schierholz, A. Schiller	Physical Review D	87	096019
3	2015	The chromomagnetic operator on the lattice	M. Constantinou, R. Frezzotti, V. Lubicz, G. Martinelli, D. Meloni, H. Panagopoulos, S. Simula	Physical Review D	92	034505
4	2017	Supersymmetric QCD on the Lattice: An Explorative Study	H. Panagopoulos	Physical Review D	96	034507
5	2018	$K \rightarrow \pi$ matrix elements of the chromomagnetic operator on the lattice	M. Constantinou, R. Frezzotti, V. Lubicz, G. Martinelli, D. Meloni, H. Panagopoulos, S. Simula	Physical Review D	97	074501
6	2021	Renormalization and Mixing of the Gluino-Glue Operator on the Lattice	H. Herodotou, P. Philippides, H. Panagopoulos	The European Physical Journal C	81	401
7	2021	Gauge-invariant renormalization scheme in	G. Karpasitis, G. Panagopoulos, H.	Physical Review D	103	094509



		QCD: Application to fermion bilinears and the energy-momentum tensor	Panagopoulos, T. Pafitis, A. Skouroupathis, G. Spanoudes			
8	2023	Perturbative renormalization of the supercurrent operator in lattice N=1 supersymmetric Yang-Mills theory	G. Bergner, H. Panagopoulos, I. Soler, G. Spanoudes	Physical Review D	107	034502
9	2025	A Multiple Compression Approach using Attribute-based	C. Costa, P. K.Chrysanthis, Herodotos Herodotou, E. Stavrakis, N. Nicolaou.	Open Research Europe	5	49.10.12688
10	2025	Perturbative determination of $O(a\ m)$ improvement on the QCD running coupling	D. Gavriel, H. Panagopoulos, G. Spanoudes	accepted for publication in Physical Review D		

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	October 2010 – September 2010	Hadron Structure in the Chiral Regime	Cyprus Research Promotion Foundation	Researcher
2	June 2012 – May 2013	Quantum Chromodynamics with Improved Actions: Numerical Studies of Hadronic Properties and Renormalization of Composite Operators	Cyprus Research Promotion Foundation	Special Scientist
3	January 2016 – December 2017	Postdoctoral Fellows	University of Cyprus	Postdoctoral Fellow
4	September 2019 – June 2022	Quantum Fields on the Lattice	Cyprus Research and Innovation Foundation	Postdoctoral Fellow
5	April 2022 – May 2024	Lattice Studies of Strongly Coupled Gauge Theories: Renormalization and Phase Transitions	Cyprus Research and Innovation Foundation	Coordinator, Principal Investigator
6	August 2022 – July 2023	New Directions in the Physics of Elementary Particles: Supersymmetry and Four-quark Quantum Operators	Cyprus University of Technology	Postdoctoral Fellow
7	June 2024 – February 2025	Big Data Compression Tool using Attribute-based Signatures	Cyprus Research and Innovation Foundation	Co - Principal Investigator
8	April 2024 – December 2024	Automated Calculation of Feynman Diagrams on the Lattice (FEDILA)	Cyprus Research and Innovation Foundation	Coordinator, Principal Investigator



9	May 2025 – April 2027	Strong Interactions on a Spacetime Lattice: Quantum Chromodynamics and its Supersymmetric Version	Cyprus Research and Innovation Foundation	Original coordinator, Principal Investigator (coordination transferred to a colleague following my appointment as Special Teaching Staff at CUT)
10	July 2025 – June 2027	Supersymmetric Quantum Field Theories and Software Development for the Lattice Formulation	Cyprus Research and Innovation Foundation	Original coordinator, Principal Investigator (coordination transferred to a colleague following my appointment as Special Teaching Staff at CUT)

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



**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	June 2014	For excellent academic and research performance in the Doctoral program of the Department of Physics	Faculty of Pure and Applied Sciences of University of Cyprus