



Academic Personnel Short Profile / Short CV

University:	Neapolis University Pafos
Surname:	Kraniotis
Name:	Georgios
Rank/Position:	Assistant Professor
Faculty:	School of Architecture, Engineering, Land and Environmental Sciences
Department:	Civil Engineering
Scientific Domain: *	Physics and Fluid Mechanics

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
Doctor of Philosophy (PhD)	1996	University of Sussex	Physics	Phenomenological Aspects of String Inspired Supergravities
Master of Science (MSc)	1992	University of Sussex	Physics	Grand Unified Theories from String Theories
Bachelor of Science (4 years course)	1990	University of Ioannina	Physics	
Certificate of Postgraduate Training in Education, Open and Distance Learning	2015-2016	Hellenic Open University	Physics	



Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		Employer	Location	Position
From	To			
15/02/2026	31/05/2026	Neapolis University Pafos	Neapolis University Pafos, 2 Danaes Avenue, 8042, Pafos, Cyprus	<i>Visiting Academic in the Department of Civil Engineering, I taught the 80-hour course of Engineering Physics at BUT in China, Spring Semester of academic year 2025/2026</i>
26/02/2020	25/05/2021	University of Ioannina	University of Ioannina, Physics Department, GR 451 10, Greece	<i>Research Fellow, (Operational Programme "Human Resources Development, Education and Lifelong Learning 2014-2020" – MIS5047648)</i>
01/10/2015	31/07/2016	Hellenic Open University (H.O.U.)	18 Aristotelous St 263 35 Patras, Greece	<i>Associate Tutor (ΣΕΠ), I taught the postgraduate course as part of the MSc program of H.O.U. : Advanced Studies in Classical Physics,(ΠΣΦ-50)- Προχωρημένες Σπουδές στη Φυσική</i>



ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ
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Key refereed 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	2025	Differential curvature invariants and event horizon detection for accelerating Kerr-Newman black holes in (anti-)de Sitter spacetime,		Journal: General Relativity and Gravitation 57 (2025) 1,16. Publisher: Springer https://doi.org/10.1007/s10714-024-03348-z	57	42 pages
2	2022	Curvature Invariants for accelerating Kerr-Newman black holes in (anti)-de Sitter spacetime		Journal: Classical and Quantum Gravity 39 (2022) 145002 Publisher: Institute of Physics (IOP) DOI 10.1088/1361-6382/ac750a	39	42 pages
3	2021	Gravitational redshift/blueshift of light emitted by geodesic test particles, frame-dragging and pericentre-shift effects, in the Kerr–Newman–de Sitter and Kerr–Newman black hole geometries		Journal: The European Physical Journal C 81 (2021) 2, 147 Publisher: Springer DOI:https://doi.org/10.1140/epjc/s10052-021-08911-5	81	37 pages

4	2020	Existence and stability of static spherical fluid shells in a Schwarzschild-Rindler-anti-de Sitter metric	G. Alestas, L. Perivolaropoulos	Journal: Physical Review D 102 (2020) 10, 104015 Publisher: American Physical Society (APS) DOI: https://doi.org/10.1103/PhysRevD.102.104015	102	10 pages
5	2019	The massive Dirac equation in the Kerr-Newman-de Sitter and Kerr-Newman black hole spacetimes		Journal: Journal of Physics Communications 3 (2019) 035026 Publisher: Institute of Physics (IOP) DOI 10.1088/2399-6528/ab1046	3	41 pages
6	2016	The Klein-Gordon-Fock equation in the curved spacetime of the Kerr-Newman (anti) de Sitter black hole		Journal: Classical and Quantum Gravity 33 (2016) 22, 225011 Publisher: Institute of Physics (IOP) DOI 10.1088/0264-9381/33/22/225011	33	50 pages
7	2005	Frame-dragging and bending of light in Kerr and Kerr-(anti) de Sitter spacetimes		Journal: Classical and Quantum Gravity 22 (2005) 4391-4424 Publisher: Institute of Physics (IOP)	22	34 Pages. (4391-4424)



				DOI 10.1088/0264-9381/22/21/001		
8	2004	Precise relativistic orbits in Kerr and Kerr-(anti) de Sitter spacetimes		Journal: Classical and Quantum Gravity 21 (2004) 4743-4769 Publisher: Institute of Physics (IOP) DOI 10.1088/0264-9381/21/19/016	21	27 pages. (4743-4769)
9	2011	Precise analytic treatment of Kerr and Kerr-(anti) de Sitter black holes as gravitational lenses		Journal: Classical and Quantum Gravity 28 (2011) 085021 Publisher: Institute of Physics (IOP) DOI 10.1088/0264-9381/28/8/085021	28	34 pages
10	1998	The Effect of Wilson line moduli on CP violation by soft supersymmetry breaking terms	D. Bailin A. Love	Journal: Physics Letters B 432 (1998) 343-352 Publisher: Elsevier 10.1016/S0370-2693(98)00648-0	432	10 pages. (343-352)



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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*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	26/02/2020- 25/05/2021	Scalar fields in Curved Spacetimes: Soliton Solutions, Observational Results and Gravitational Waves" (MIS 5047648	Research co-financed by Greece and the European Union (European Social Fund - ESF) through the Operational Programme "Human Resources Development, Education and Lifelong Learning 2014-2020	Research Team Member
2	15/11/2014- 15/05/2015	Beyond the Standard Model: Theoretical Physics of Elementary Particles and Cosmology under the light of LHC", MIS 375734, code E/KE 80803	co-financed by the European Union (European Social Fund-ESF) and Greek national funds through the Operational	Researcher



			Program “Education and Lifelong Learning” of the National Strategic Reference Framework (NSRF)- Research Funding Program: THALIS- Investing in the society of knowledge through the European Social Fund	
3	1/05/2002- 31/12/2002	M-theory, Supersymmetries and Quantum Field Theories	German-Israeli program: <i>M- theory, Supersymmetries and Quantum Field Theories</i>	Researcher
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**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
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**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	30/09/2024	IOP Trusted Reviewer status	IOP Publishing
2	11/01/2023	Distinguished EPJ Referees 2022	EPJ.org (European Physical Journal)
3	2018	Publons Peer Review Awards 2018, Top 1% of Reviewers in Physics	Publons
4	25/10/2016	IOP Select Article: <i>The Klein–Gordon–Fock equation in the curved spacetime of the Kerr–Newman (anti) de Sitter black hole</i> , G V Kraniotis 2016 Class. Quantum Grav. 33 225011	IOP Publishing
5	5/10/2005	Research Highlights of Classical and Quantum Gravity: <i>Frame dragging and bending of light in Kerr and Kerr–(anti) de Sitter spacetimes</i> , G V Kraniotis 2005 Class. Quantum Grav. 22 4391-4424	IOP Publishing
6	21/09/2004	IOP Select Article: <i>Precise relativistic orbits in Kerr and Kerr–(anti) de Sitter spacetimes</i> , G V Kraniotis 2004 Class. Quantum Grav. 21 4743-4769	IOP Publishing
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ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ
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**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	21/11/2016	<i>The problem of perturbative charged massive scalar field in the Kerr-Newman-(anti) de Sitter black hole background,</i>	CQG+ Insight: Public science article written by me following the invitation of Classical and Quantum Gravity (CQG) in which I explain in simple terms my main results and their significance of my published IOP Selected Article: <i>The Klein–Gordon–Fock equation in the curved spacetime of the Kerr–Newman (anti) de Sitter black hole</i>
2	29/02/2000	<i>Το κυνήγι για την σκοτεινή ύλη (The hunting for dark matter)</i>	Article and interview by S. Loverdou highlighting my work with S.B. Whitehouse on Astronomy and Cosmology that appeared in Eleutherotypia (Ελευθεροτυπία), major Greek newspaper at that time
3	18/12/1999	<i>Feel the force</i>	Featured article published in New Scientist highlighting my research with my co-researcher Dr S. B. Whitehouse, on our proposal that a cosmological constant can dictate the rotation curves of spiral galaxies.
4	2013	<i>Γ Β Κραγιώτης και Γ Κ Λεοντάρης, Διανυσματικός Λογισμός, ασκήσεις και προβλήματα με συνοπτική θεωρία/Vector Calculus, problems and exercises with comprehensive theory</i>	Book I published in collaboration with Dr G K Leontaris/Εκδόσεις Θεοδωρίδη ISBN 978-960-8026-06-3



ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ
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