

Theodoros Papanikolaou

Curriculum Vitae

Department of Physics
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Academic Positions

- 01/2026 - Today: **Assistant Professor**, *Department of Physics, University of Patras, Patras, Greece.*
- 10/2023 - 01/2026: **Postdoctoral Research Fellow**, *Scuola Superiore Meridionale, Napoli, Italy.*
- 10/2021 - 09/2023: **Postdoctoral Research Fellow**, *National Observatory of Athens, Athens, Greece.*
- 10/2018 - 09/2021: **PhD Researcher (under full-time contract)**, *Laboratoire Astroparticule & Cosmologie, Université Paris Cité, Paris, France.*

Administrative Positions

- 09/2025 - 09/2027: Secretary Elected of the Hellenic Society on Relativity, Gravitation and Cosmology

Education

- March 2025: **Abilitazione Scientifica Nazionale**, *Ministero dell'Università e della Ricerca, Italy.*
Fascia II: Associate Professor Level
Section 02/A2: Theoretical Physics of Fundamental Interactions
- 10/2018 - 09/2021: **PhD in Theoretical Cosmology**, *Université Paris Cité, Paris, France.*
Thesis Title: Constraining Aspects of the Early Universe with Primordial Black Holes
PhD Defence (Award) Date: 20/09/2021
PhD Jury: A. Riotto, S. Clesse, C.T. Byrnes, D. Steer
PhD Advisor: Vincent Vennin
- 09/2017 - 07/2018: **Master 2 in Nuclei, Particles, Astroparticles and Cosmology**, *Sorbonne Université, Paris, France.*
General GPA: "Très Bien - 17.0/20" - Summa cum Laude
- 09/2016 - 08/2017: **Master 1 ICFP - International Centre for Fundamental Physics**, *École Normale Supérieure de Paris, Paris, France.*
General GPA: "Bien - 14.5/20"
- 09/2012 - 07/2016: **BSc in Physics**, *University of Patras, Patras, Greece.*
General GPA: "Excellent - 9.96/10" - Summa cum Laude
- June 2012: **Greek High School Diploma - "Apolitirio Lykeiou"**, *7th General Lyceum of Patras, Patras, Greece.*
General GPA: "Excellent - 19.8/20" - Summa cum Laude
- Greek military service: legally exonerated.**

European - International Collaborations

- Core Member of the LISA Cosmology Working Group.
- Core member of the Δ LISA-GR: The Greek Team of the LISA Consortium
- Member of the COST Action CA18108 "Quantum Gravity Phenomenology in the multi-messenger approach".
- Member of the COST Action CA21136 "Addressing observational tensions in cosmology with systematics and fundamental physics (CosmoVerse)".
- Member of the COST Action CA23130 "Bridging high and low energies in search of quantum gravity (BridgeQG)".

Informatics

- Programming with **Python, Fortran and C++**
- Computational package **Mathematica**
- Tensor Calculus and Perturbation Theory with **xAct** and **xPand**

Foreign Languages

Greek: Native Speaker

English: Level C2, Michigan ECPE, IELTS Academic (Overall Band Score: 8.0)

French: Level C2, DALF C2 (score: 92/100)

Italian: Level B2, Greek State Certificate B2 of the Italian Language (score: 88/100)

Romanian: Level A2

Research Fellowships/Grants ~ 200k€

- 10/2023 – 01/2026: Postdoctoral Research Fellowship from the Scuola Superiore Meridionale di Napoli, Italy (International selection among ~200 candidates).
- 10/2021 - 09/2023: Postdoctoral Research Grant from the Foundation for Education and European Culture in Greece for post-doctoral research in the National Observatory of Athens.
- 10/2018 – 09/2021: "Jean-Pierre Aguilar" Doctoral Research Fellowship - "Contrat Doctoral" from the Université Paris Cité funded by the CFM Research Foundation's Doctoral Research Program.

Excellence Scholarships/Grants ~ 100k€

- 10/2018 - 09/2021: Scholarship of the Alexander S.Onassis Public Benefit Foundation in Greece for PhD studies in the Université Paris Cité, 25.8k€.
- 09/2017 – 06/2019: Leventis Foundation Grant for graduate studies in France, 9.2k€.
- 09/2017 – 06/2019: Scholarship of the Foundation of Education and European Culture in Greece for graduate studies in France, 10k€.
- 09/2017 – 06/2018: Scholarship from the Lagrange Institute of Paris for graduate studies at Sorbonne Université, 11k€.
- 09/2017 – 06/2018: "Panagiotis Triantafyllidis" Scholarship for graduate studies at Sorbonne Université, 8.5k€.
- 09/2016 – 06/2017: ICFP-LabEx Scholarship of the École Normale Supérieure (ENS) de Paris for graduate studies in ENS, 8.5k€.

- 09/2016 – 06/2017: Lilian Voudouri Foundation Scholarship for graduate studies in France, 9k€.
- 09/2012 - 06/2016: Andreas Mentzelopoulos Scholarship for undergraduate studies at the University of Patras, 20k€.
- 09/2012: Scholarship and Prize of the Greek State Scholarship Foundation for being the 1st undergraduate entree in the Physics Department of the University of Patras, 2k€.

Distinctions/Awards

- May 2026: "Honorable Mention" in the International Gravity Essay Competition 2026 of the Gravity Research Foundation in USA for the essay entitled "A thermodynamic route to an ultra-fast primordial black hole mass growth".
- September 2025: Inclusion in the Stanford/Elsevier's Top 1% Scientists Ranking for the Year 2024.
- May 2025: "Honorable Mention" in the International Gravity Essay Competition 2025 of the Gravity Research Foundation in USA for the essay entitled "Primordial Black Hole Driven Cosmic Acceleration".
- September 2024: Inclusion in the Stanford/Elsevier's Top 2% Scientists Ranking for the Year 2023.
- May 2024: "Honorable Mention" in the International Gravity Essay Competition 2024 of the Gravity Research Foundation in USA for the essay entitled "Observable Signatures of No-Scale Supergravity in NANOGrav".
- January 2024: "2023 People Of The Year" Award from the Greek Journal "Peloponissos", the University of Patras and the District of Western Greece for great achievements in Science.
- January 2017: *Excellence Award* of the University of Patras as a first graduate student from all the Departments of the Faculties of the University of Patras for the academic year 2015-2016, 1k€.
- June 2016: *Onassis Excellence Award* for the participation at the 66th Lindau Nobel Laureate Meeting in Physics, 26 June - 1 July 2016, Lindau, Germany, 5.5k€.

Publications

1. J. Martin, T. Papanikolaou and V. Vennin, Primordial black holes from the preheating instability in single-field inflation, [JCAP 01 \(2020\) 024](#), [arXiv:1907.04236](#)
2. J. Martin, T. Papanikolaou, L. Pinol and V. Vennin, Metric preheating and radiative decay in single-field inflation, [JCAP 05 \(2020\) 003](#), [arXiv:2002.01820](#)
3. T. Papanikolaou, V. Vennin and D. Langlois, Gravitational waves from a universe filled with primordial black holes, [JCAP 03 \(2021\) 053](#), [arXiv:2010.11573](#)
4. I. Musco and T. Papanikolaou, Primordial black hole formation for an anisotropic perfect fluid: initial conditions and estimation of the threshold, [Phys. Rev. D 106 \(2022\) 08](#), [arXiv:2110.05982](#)
5. T. Papanikolaou, C. Tzerefos, S. Basilakos, E.N. Saridakis, Scalar induced gravitational waves from primordial black hole Poisson fluctuations in $f(R)$ gravity, [JCAP 10 \(2022\) 013](#), [arXiv:2112.15059](#)
6. LISA Cosmology Working Group - Pierre Auclair et al., Cosmology with the Laser Interferometer Space Antenna, [Living Rev. Rel. 26 \(2023\) 1, 5](#), [arXiv:2204.05434](#)
7. T. Papanikolaou, C. Tzerefos, S. Basilakos, E.N. Saridakis, No constraints for $f(T)$ gravity from gravitational waves induced from primordial black hole fluctuations, [Eur. Phys. J. C 83 \(2023\) 01](#), [arXiv:2205.06094](#)
8. T. Papanikolaou, Toward the primordial black hole formation threshold in a time-dependent equation-of-state background, [Phys. Rev. D 105 \(2022\) 12](#), [arXiv:2205.07748](#)
9. S. Banerjee, T. Papanikolaou, E. N. Saridakis, Constraining $F(R)$ bouncing cosmologies with primordial black

- holes, [Phys. Rev. D 106 \(2022\) 12](#), [arXiv:2206.01150](#)
10. T. Papanikolaou, Gravitational waves induced from primordial black hole fluctuations: The effect of an extended mass function, [JCAP 10 \(2022\) 089](#), [arXiv:2207.11041](#)
 11. N. Karnesis et al., The Laser Interferometer Space Antenna mission in Greece White Paper, [Int.J.Mod.Phys.D 33 \(2024\) 07n08](#), [2450027](#), [arXiv:2209.04358](#)
 12. T. Papanikolaou, A.Lymperis, S. Lola, E.N. Saridakis, Primordial black holes and gravitational waves from non-canonical inflation, [JCAP 03 \(2023\) 003](#), [arXiv:2211.14900](#)
 13. T. Papanikolaou, K.N. Gourgouliatos, Primordial magnetic field generation via primordial black hole disks, [Phys. Rev. D 107 \(2023\) 10](#), [arXiv:2301.10045](#)
 14. T. Papanikolaou, Primordial black holes in loop quantum cosmology: The effect on the threshold, [Class. Quantum. Grav. 40 \(2023\) 13](#), [arXiv:2301.11439](#)
 15. T. Papanikolaou, The H_0 tension alleviated through ultra-light primordial black holes: an information insight through gravitational waves, Contribution to [CORFU22](#), [arXiv:2303.00600](#)
 16. C.Tzerefos, T. Papanikolaou, S. Basilakos, E.N. Saridakis, Scalar induced gravitational waves in modified teleparallel gravity theories, [Phys. Rev. D 107 \(2023\) 12](#), [arXiv:2303.16695](#)
 17. T. Papanikolaou, K.N. Gourgouliatos, Constraining supermassive primordial black holes with magnetically induced gravitational waves, [Phys. Rev. D 108 \(2023\) 06](#), [2306.05473](#)
 18. S. Basilakos, D. V. Nanopoulos, T. Papanikolaou, E.N. Saridakis, C. Tzerefos, Gravitational-wave signatures of no-scale supergravity in NANOGrav and beyond, [Phys. Lett. B 850 \(2024\) 138507](#), [2307.08601](#)
 19. S. Basilakos, D. V. Nanopoulos, T. Papanikolaou, E.N. Saridakis, C. Tzerefos, Induced gravitational waves from flipped SU(5) superstring theory at nHz, [Phys. Lett. B 849 \(2024\) 138446](#), [2309.15820](#)
 20. LISA Cosmology Working Group - Eleni Bagui et al., Primordial black holes and their gravitational-wave signatures, [Living Rev.Rel. 28 \(2025\) 1](#), [1,2310.19857](#)
 21. T. Papanikolaou, C. Tzerefos, S. Basilakos, E.N. Saridakis, N. E. Mavromatos, Revisiting string-inspired running-vacuum models under the lens of light primordial black holes, [Phys.Rev.D 110 \(2024\) 2](#), [024055](#), [2402.19373](#)
 22. T. Papanikolaou, Xin-Chen He, Xiao-Han Ma, Yi-Fu Cai, E.N. Saridakis, M.Sasaki, New probe of non-Gaussianities with primordial black hole induced gravitational waves, [Phys. Lett. B 857 \(2024\) 138997](#), [2403.00660](#)
 23. T. Papanikolaou, S. Banerjee, Yi-Fu Cai, S. Capozziello, E.N. Saridakis, Primordial black holes and induced gravitational waves in non-singular matter bouncing cosmology, [JCAP 06 \(2024\) 066](#), [2404.03779](#)
 24. T. Papanikolaou, C. Tzerefos, S. Capozziello, G. Lambiase, Gravitational-wave signatures of gravito-electromagnetic couplings, [JCAP 01 \(2025\) 051](#), [2408.17259](#)
 25. S. Basilakos, D. V. Nanopoulos, T. Papanikolaou, E.N. Saridakis, C. Tzerefos, Observable Signatures of No-Scale Supergravity in NANOGrav, [Int. J. Mod. Phys. D 33 \(2024\) 15](#), [2441014](#), [2409.02936](#)
 26. Xin-Chen He, Xiao-Han Ma, Yi-Fu Cai, Papanikolaou, E.N. Saridakis, M.Sasaki, Gravitational waves from primordial black hole isocurvature: the effect of non-Gaussianities, [JCAP 12 \(2024\) 039](#), [2409.11333](#)
 27. C. Tzerefos, T. Papanikolaou, S. Basilakos, E.N. Saridakis, N. E. Mavromatos, Gravitational wave signatures from reheating in Chern-Simons running-vacuum cosmology, [Phys.Rev.D 111 \(2025\) 4](#), [043523](#), [2411.14223](#)
 28. K. Dimopoulos, A. Ghoshal, T. Papanikolaou, Is inflationary magnetogenesis sensitive to the post-inflationary history?, [Phys.Rev.D 111 \(2025\) 8](#), [083550](#), [2412.10367](#)
 29. LISA Cosmology Working Group - Jonas El Gammal et al., Reconstructing Primordial Curvature Perturbations via Scalar-Induced Gravitational Waves with LISA, [JCAP 05 \(2025\) 062](#), [2501.11320](#)
 30. K. Dialektopoulos, T. Papanikolaou, V. Zarikas, Primordial black holes as cosmic expansion accelerators, [Phys. Lett. B 870 \(2025\) 139948](#), [2502.18352](#)
 31. A. Bhaumik, T. Papanikolaou, A. Ghoshal, Vector induced Gravitational Waves sourced by Primordial Magnetic Fields, [JCAP 08 \(2025\) 054](#), [2504.10477](#)
 32. T. Papanikolaou, Gravitational wave signatures of non-singular matter bouncing cosmology in NANOGrav and beyond, [CORFU24](#), [2504.11641](#)

33. M. Chianese, G. Domènech, T. Papanikolaou, R. Samanta, N. Saviano, Induced Gravitational Waves as Cosmic Tracers of Leptogenesis, [2504.20135](#), **Accepted in JCAP**
34. T. Papanikolaou, S. Capozziello, Primordial black hole induced gravitational waves in $f(R)$ gravity, [2508.03939](#), **Accepted in JCAP**
35. K. Dialektopoulos, T. Papanikolaou, V. Zarikas, Primordial black hole-driven cosmic acceleration, [Int.J.Mod.Phys.D 34 \(2025\) 16, 2544015](#), [2511.18080](#)
36. D. Totolou, T. Papanikolaou, E.N. Saridakis, Primordial black hole dark matter from ultra-slow-roll inflation in Horndeski gravity, [2512.25044](#)
37. D. Kallifatides, T. Papanikolaou, E.N. Saridakis, Ultra-fast growth of primordial black holes through radiative absorption, [2601.18708](#)
38. G.Kouniatalis, T. Papanikolaou, S. Basilakos, E.N. Saridakis, Primordial black hole formation from transient $f(T)$ cosmology, [2603.24759](#)
39. K. Dialektopoulos, T. Papanikolaou, V. Zarikas, Inflation driven by repulsive-like primordial black holes, [CORFU25](#), [2605.05232](#)
40. A. Bhaumik, T. Papanikolaou, A. Ghoshal, Magnetically assisted primordial scalar perturbations: Scalar-Induced Gravitational Waves, [2607.17875](#)

--- Bibliometric Status

- Citations: >2380 (according to [HEP Inspire](#) bibliometric basis)
- h-index: 23

--- Reviewing activity

- Nature Astronomy (Invited Reviewer)
- Journal of Cosmology and Astroparticle Physics
- Physics Letters B
- Classical and Quantum Gravity
- Physics of the Dark Universe
- Chinese Physics Letters
- Nuclear Physics B
- Universe
- International Journal of Modern Physics D
- International Journal of Geometric Methods in Modern Physics

--- Talks at International Conferences/Workshops

- September 2026: Corfu - IBS Workshop "Gravity and Cosmology by the Sea", Venetian Salt Warehouses, Lefkimmi, Corfu, Greece.
- July 2026: 3rd INPP Demokritos-APCTP Workshop, NCSR "Demokritos", Athens, Greece. **(Invited Speaker)**
- June 2026: *"International Workshop: New Horizons in Primordial Black Hole physics (NEHOP)"*, CERN, Geneva, Switzerland.
- February 2026: Online International Conference: Early Universe from Home.
- September 2025: Corfu Summer Institute 2025, *"Tensions in Cosmology"*, Corfu, Greece. **(Invited Speaker)**
- September 2025: *"NEB-21 Conference: Recent Developments in Gravity"*, Ionian University, Corfu, Greece.

- July 2025: *"The 17th Hellenic Astronomical Conference"*, Conference and Cultural Center, University of Patras, Patras, Greece.
- June 2025: *"International Workshop: Gravitational Wave Probes of Physics Beyond Standard Model"*, Faculty of Physics, University of Warsaw, Poland.
- May 2025: *"International Workshop: New Horizons in Primordial Black Hole physics (NEHOP)"*, Université Libre de Bruxelles, Belgium.
- February 2025: Online International Conference: Early Universe from Home".
- November 2024: *"Focus Week on Primordial Black Holes 2024"*, Kavli Institute for Physics and Mathematics of the Universe, Tokyo, Japan. **(Invited Plenary Speaker)**
- September 2024: Corfu Summer Institute 2024, *"The Dark Side of the Universe "*, Corfu, Greece. **(Invited Speaker)**
- June 2024: *"International Workshop: New Horizons in Primordial Black Hole physics (NEHOP)"*, National Galleries of Scotland, Edinburgh, United Kingdom.
- May 2024: *"International Workshop: Cosmology and Astrophysics in the Gravitational Wave Astronomy Era"*, Central Library of Aristotle University, Thessaloniki, Greece. **(Invited Speaker)**
- February 2024: *"Bottom-Up Cross-Cutting Workshop "JENAS Initiative: Gravitational Wave Probes of Fundamental Physics"*, Sapienza University of Rome, Italy.
- December 2023 *"Future perspectives on Primordial Black Holes"*, Sapienza University of Rome, Rome, Italy.
- September 2023: *"NEB-20 Conference: Recent Developments in Gravity"*, Eugenides Foundation, Athens, Greece.
- June 2023: *"The 16th Hellenic Astronomical Conference"*, Drakopoulos Amphitheater, National and Kapodistrian University of Athens, Athens, Greece.
- June 2023: *"International Workshop: New Horizons in Primordial Black Hole physics (NEHOP)"*, Centro Congressi Federico II, Napoli, Italy **(Invited Speaker)**
- December 2022: *"International Workshop: Messengers of the very early universe: Gravitational Waves and Primordial Black Holes"*, Centro Universitario Padovano, Padova, Italy. **(Invited Speaker)**
- September 2022: Corfu Summer Institute 2022, *"Tensions in Cosmology"*, Corfu, Greece. **(Invited Speaker)**
- July 2022: 3rd Annual Conference COST CA18108: *"Quantum gravity phenomenology in the multi-messenger approach"*, Napoli, Italy. **(Invited Speaker)**
- June 2022: International Workshop *Gravity - Current challenges in black hole physics and cosmology*, Yukawa Institute for Theoretical Physics, Kyoto University.
- December 2021: International Conference *Recent Advances in Theoretical Cosmology and Astrophysics*, Thessaloniki, Greece. **(Invited Speaker)**
- September 2019: COSMO19 Conference, RWTH Aachen University, Germany. (Poster Presentation)
- March 2019: Congrès de Doctorants 2019 of the Doctoral School STEP'UP, Institut de Physique du Globe de Paris, Paris, France. (Poster Presentation).
- February 2019: ELBERETH Conference 2019, Institut d'Astrophysique de Paris, Paris, France.
- June 2016: *66th Lindau Nobel Laureate Meeting in Physics*, Lindau, Germany: Participation representing Greece as a fellow of the Alexander S. Onassis Public Benefit Foundation after a multistage international selection process.

Invited Seminars

- May 2026: Faculty of Physics, Jagiellonian University, Krakow, Poland
- May 2026: CENTRA, University of Lisbon, Portugal
- October 2025: Intercontinental Seminar Series on Gravity and Cosmology
- December 2024: Faculty of Physics, University of Warsaw, Poland
- October 2024: Department of Physics "Ettore Pancini", University of Naples "Federico II", Naples, Italy
- September 2024: National Centre for Scientific Research "Demokritos", Athens, Greece
- July 2024: Particle Cosmology Group, University of Lancaster, Lancaster, United Kingdom
- April 2024: Institut d'Astrophysique de Paris, Paris, France
- November 2023: Scuola Superiore Meridionale, Napoli, Italy
- September 2023: Cosmology and Gravity Group, Laboratoire de Physique, École Normale Supérieure, Paris, France
- May 2023: *"Majorana-Raychaudhuri Seminar Series"*, INFN & University Salerno, Italy & PAMU and Indian Statistical Institute, Kolkata, India
- March 2023: IASSARS, National Observatory of Athens, Athens, Greece
- December 2022: Faculty of Physics, Jagiellonian University, Krakow, Poland
- June 2021: Department of Applied Mathematics and Physical Sciences, National Technical University of Athens, Athens, Greece
- April 2021: Institute of Theoretical Physics, Universidad Autónoma de Madrid, Madrid, Spain
- November 2020: School of Mathematical and Physical Sciences, University of Sussex, United Kingdom
- June 2020: Laboratoire AstroParticule et Cosmologie, Paris-Diderot University, Paris, France

Research Visits

- May 2026: Faculty of Physics, Astronomy and Applied Computer Science, Jagiellonian University of Krakow, Poland.
(Invited by Prof. Chunshan Lin)
- December 2024: Theoretical Physics Institute, Faculty of Physics, University of Warsaw, Poland.
(Invited by Prof. Bohdan Grzadkowski)
- July 2024: Particle Cosmology Research Group, Lancaster University, United Kingdom.
(Invited by Prof. Konstantinos Dimopoulos)
- Nov 2019 – Feb 2020: Department of Theoretical Physics, University of Geneva, Switzerland.
(Invited by Prof. Antonio Riotto)
- Mar 2018 – June 2018: Research Internship at the Laboratory of Astroparticles and Cosmology of the University Paris 7 in the context of my graduate studies in Sorbonne Université.
Internship's Theme: «Primordial Black Holes during Preheating».
Supervisor: Vincent Vennin.
- Feb 2017 – June 2017: Research Internship at the Laboratory of Theoretical and High Energy Physics of the University Paris 6 in the context of my graduate studies in ENS de Paris.
Internship's Theme: «Unitarity Constraints on the Properties of Dark Matter Particles».
Supervisors: Kalliopi Petraki, Andreas Goudelis.

October 2016 – Library based project at the Laboratory of Astroparticles and Cosmology of the University
January 2017: Paris 7 in the context of my graduate studies in ENS de Paris.
Project's Topic: «Cosmological Inflation».
Supervisors: Elias Kiritsis, Francesco Nitti.

University Teaching - Supervision

Undergraduate Program, Department of Physics, University of Patras, Greece

2026-today: Ordinary Differential Equations, 2nd semester
2026-today: Special Topics of Elementary Particle Physics and Fields, 8th semester
2026-today: Physics Laboratory IV (Electromagnetism), 4th semester
2026-today: Physics Laboratory V (Nuclear Physics), 5th semester

Master Program, Department of Physics, University of Patras, Greece

2026-today: General Relativity, 1st semester
2026-today: Special Topics in Cosmology, 3rd semester
2026-today: Bibliography Presentation, 2nd semester

Supervision

2026-today: 4 BSc theses
2026-today: 3 MSc theses
2026-today: 1 PhD thesis (main PhD advisor) + 2 PhD theses (assisting supervision)

Teaching at Training Schools/Workshops

June 2026: Arsakio Summer School for High School Students, University of Patras, Greece
May 2026: Spring School on Gravity and Cosmology for Master/PhD students, IAASARS, National Observatory of Athens, Greece.

Science Popularisation

December 2022: Science Popularisation Meeting organised by Young Minds NKUA, IAASARS, National Observatory of Athens
September 2026: Researcher Night, University of Patras, Greece

Science Competition Achievements

Physics: 8th place in the first round of the Pan-Hellenic Students Physics Competition of 2011-2012, one step before the 43th IPhO (International Physics Olympiad).
Mathematics: Participation in the 28th Greek National Mathematics Olympiad "Archimedes" of the period 2010-2011.
Chemistry: 8th place with the 5th better grade because of ties in the Pan-Hellenic Students Chemistry Competition of 2011-2012, one step before International Chemistry Olympiad.
Letters: 2nd prize in the Pan-Hellenic Competition of Written Composition of 2008-2009, held under the auspices of the Pan-Hellenic Union of Handicapped People and the Greek Ministry of Education and Civilization.

Membership to Scientific Associations

- *Hellenic Society on Relativity, Gravitation and Cosmology*
- *Hellenic Astronomical Society*
- *Union of Greek Physicists*
- *Hellenic Mathematical Society*

Scientific Interests

- Theoretical Cosmology of the Primordial Universe
- Primordial Black Holes
- Gravitational Waves/Theory
- Cosmological Implications of High Energy Physics Theories
- Cosmic Magnetic Fields
- Theoretical Astrophysics
- Modified/Quantum Gravity Theories
- Dark Energy and Dark Matter
- Philosophy of Physics - Cosmology