

Konstantinos Sfetsos: Curriculum Vitae

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Academic Position: Full Professor of Theoretical Physics

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Google Scholar: <https://scholar.google.com/citations?hl=en&user=I1e7C3kAAAAJ>

Educational Background, Degrees:

- Diploma in Physics, University of Patras, Greece, 1987
- Ph.D. in Theoretical Physics, USC, Los Angeles, CA, USA, 1993.

Ph.D Thesis: *Studies in String Theory on Curved Spacetime*, Dept. of Physics, U. of Southern California (USC), LA, CA, 90089 – 0484, U.S.A., August 1993. Advisor: Professor Itzhak Bars.

Research & Academic Positions:

- Postdoctoral fellow, Institute for Theoretical Physics, University of Utrecht, The Netherlands, 1 September 1993 – 30 November 1996.
- Military service September 1996 – May 1997.
- CERN fellow, 1 July 1997 – 30 September 1999.
- Maitre-assistant, Université de Neuchâtel, Institut de Physique, Neuchâtel, Switzerland, 1 October 1999 – 31 January 2002.
- Associated Professor, University of Patras, Department of Engineering Sciences, Greece, December 2001-05.
- Professor, U. of Patras, Department of Engineering Sciences, Greece, 2006 -13.
- Professor & Group Leader, Dept. of Mathematics, University of Surrey, UK, 2012-13.
- Professor, Department of Physics, University of Athens, Greece, 2014 -.

Long term & visiting positions in research institutes in: France, Spain, Switzerland, UK, USA, Germany, CERN (research or scientific associate since 2006), Hellenic Open University

Main research topics and interests: Theoretical and Mathematical Physics.

In particular:

- Quantum gravity and string theory.
- Non-perturbative aspects in gauge and field theories.
- Dualities in string and field theories.
- Solutions of low-energy effective supergravities of superstrings and M-theory.

- Fundamental aspects of black-hole physics and of string cosmology.
- Conformal field theory, two-dimensional σ -models, integrable systems.

Publications & impact of research work:

Publications: 160, Citations/h-factor: **Inspires:** 7000/48, **Google Scholar:** 8000/51

Teaching experience [U. of Patras, U. of Athens, Hellenic Open U (GR), U. of Surrey (UK)]:

- **Introductory physics:** Mechanics, Electromagnetism, Thermodynamics
- **Advanced undergraduate courses:** Quantum mechanics, Classical electrodynamics, Quantum Mechanics II, Mathematical physics
- **Postgraduate courses:** Group theory, Electrodynamics, General relativity, Field theory, String theory, Mathematical methods for physics

Currently: Quantum Field Theory (master level), General Relativity (master level; advanced 4th year advanced students may take it)

Administration experience:

- Head of Dept. of Nuclear and Particle Physics, Faculty of Physics, NKUA, 2019-21
- Head of Physics Section (2012-13 & 2010-12) and Vice Chairman (2012) of the Department of Engineering Sciences of the University of Patras.
- Member of the Post-graduate studies, research committees and of the senate of the University of Patras (2007-10).
- Head of the Fields, Strings and Geometry group, of the Department of Mathematics of the University of Surrey (2012-13).
- Member of evaluation committees for hiring and promoting faculty members.

Recent conference organization (as Chair):

- Xmas Workshop@Athens: [2014](#), [2015](#), [2016](#), [2017](#), [2018](#), [2019](#), [2022](#), [2023](#)
- AthensRegionalMeetingHEP: [2015](#)
- [Conference of recent developments in High Energy Physics 2015](#) (Athens)
- [Simons Center: Generalized Geometry & T-dualities: May 9 -13, 2016](#) (St Brook, USA)

Recent conferences as scientific advisor

- [Integrability, Dualities and Deformations](#), 2021 (Santiago de Compostela, Spain)
- [Integrability, Dualities and Deformations](#), 2022 (Berlin, Germany)

Invited speaker (> 150) for seminars and in international conferences.

Referee for the scientific journals: Nuclear Physics **B**, Physics Letters **B**, Physical Review **D**, Advanced Theoretical and Mathematical Physics, Journal of High Energy Physics, International Journal of Modern Physics **A**, Modern Physics Letters **A**, Physical Review Letters, Classical and Quantum Gravity.

Recent research grants (as PI):

- Host for the Greek Diaspora Fellowship Program (GDFP) with Prof. A. Polychronakos as a Fellow.
- Academic advisor for the NSRF (National Strategic Reference Framework) program, October 2019, *Holography and Integrability of the Schrodinger/dipole CFT correspondence*, 41.542 €.

- Excellence Grant, Hellenic Foundation for Research and Innovation, August 2019, *Novel non-perturbative aspects of field theories from deforming holography*, 200.000 €.
- Principal Investigator for STFC Consolidated Grant, Particle Physics Theory, *Fundamental Implications of Fields, Strings and Gravity*, 2012, 271.000 £.
- Scientist in charge for the MC-IOF (International Outgoing Fellowships), Beyond Abelian T-duality, Fellow: Dr. E. O'Colgain), January 2013 (2+1 years), 295.000 €.
- Excellence Grant, «ARISTEIA» entitled “*Holographic Hydronamics*”, April 2012, Greek Ministry of Education and Research, 374.000 €.
- Scientist in charge for «HRAKLEITOS II»: “*Integrable structures in string and in gauge theories*”, Greek Ministry of Education and Research, Jan. 2011 (3 years).

Supervision of graduate students and postdoctoral fellows:

Graduate students:

- None currently

Former Graduate students:

- [G.P.D. Pappas](#) (2017-2023)
- [P. Panopoulos](#) (2015-2020); From Spring 2022 -> Boskovic Inst. in Zagreb, Croatia
- [E. Sagkrioti](#) (2017-2020); She continues in Biology research
- [G. Itsios](#) (2011-2014); from Fall 2014 → Santiago and Compostella, Spain
- [N. Karaiskos](#) (2008-12, co-supervision with A. Doikou); from Fall 2012 → Leibniz University of Hannover, Germany).
- [K. Siampos](#) (2005-10); from Fall 2010 → Ecole Polytechnique, Paris, France.
- [D. Zoakos](#) (2002-07); from Fall 2007 → Santiago and Compostella, Spain

Postdoctoral Fellows:

- [G. Georgiou](#) (2022-)
- [K. Siampos](#) (2022-)
- [D. Zoakos](#) (2018-)

Former Postdoctoral Fellows:

- [A. Passias](#) (2021-22); From July 2022 → LPTH-ENS, Paris
- [G. Itsios](#) (2020-2021); From October 2021 → 5 year position at Humboldt U.
- [G. Linardopoulos](#) (2016-21); from September 2021 → Wigner Institute Budapest
- [N. Pappas](#) (2014-2019)
- [A. Arvanitakis](#) (2017 → Imperial College)
- [D. Manolopoulos](#) (2014-17) (From July 2017 → The Cyprus Institute)
- [B. Fraser](#) (2014-2016) (From Fall 2016 → Bangkok University)
- [D. Schofield](#) (2014-15)
- [D. Giataganas](#) (2013-15) (Fall 2015 → 5 year position at NCTS, Taiwan)
- [A. Prinsloo](#) (2012-13), University of Surrey
- [J. Gutowski](#) (2013) STFC Advanced Fellow, University of Surrey
- [E. Tsatis](#) (Fall 2010 – Spring 2012 → Department of Mathematics U. of Patras).
- [A. Fotopoulos](#) (Fall 2010 – Spring 2012).
- [S. Avramis](#) (2006-07, Fall 2007 → University of Neuchatel, Switzerland).
- [P. Manousselis](#) (2004-2007, January 2008 → National Technical U. of Athens).