

Curriculum Vitae

NAME Ioannis Mitsoulas *email:* mitsoulas@inp.demokritos.gr

DATE OF BIRTH 26 August 1983

WORK EXPERIENCE 2019 -
■ Postdoctoral Scientific Collaborator, Institute of Nuclear and Particle Physics, NCSR Demokritos, Athens, Greece
2014 - 2015
■ Visiting Researcher, CERN Theory Group, CERN, Geneva, Switzerland

EDUCATION 2019 Ph.D in Theoretical High Energy Physics
National Technical University of Athens, Greece,
Thesis: Integrable Structures in String Theory
2013 MSc in Physics and Technological Applications
National Technical University of Athens, Greece,
Thesis: σ -models and Pohlmeyer Reduction: Theory and Applications in the Context of the AdS/CFT Correspondence
2007 BSc in Physics
University of Patras, Greece,
Thesis: Gravitational and Electromagnetic Black Hole Perturbations

RESEARCH INTERESTS String theory, Integrability, Conformal Field Theories, Supersymmetric Theories, Non Perturbative Aspects of Quantum Field Theories, Cosmological Applications.

LIST OF PUBLICATIONS

- ▷ D.Katsinis, I. Mitsoulas and G. Pastras: Geometric flow description of minimal surfaces [arXiv:1910.06680 \[hep-th\]](#)
- ▷ D.Katsinis, I. Mitsoulas and G. Pastras: Stability analysis of classical string solutions and the dressing method *JHEP* 1909 (2019) 106, [arXiv:1903.01412 \[hep-th\]](#)
- ▷ D.Katsinis, I. Mitsoulas and G. Pastras: Salient features of dressed elliptic strings on $\mathbb{R}\times\mathbb{S}^2$ *Eur.Phys.J. C* 79 (2019) no.10, 869, [arXiv:1903.01408 \[hep-th\]](#)
- ▷ D.Katsinis, I. Mitsoulas and G. Pastras: Dressed elliptic string solutions on $\mathbb{R}\times\mathbb{S}^2$ *Eur.Phys.J. C* 78 (2018) no.8, 668, [arXiv:1806.07730 \[hep-th\]](#)
- ▷ D.Katsinis, I. Mitsoulas and G. Pastras: Elliptic string solutions on $\mathbb{R}\times\mathbb{S}^2$ and their Pohlmeyer reduction *Eur.Phys.J. C* 78 (2018) no.11, 977, [arXiv:1805.09301 \[hep-th\]](#)
- ▷ G. Koutsoumbas, I. Mitsoulas and E. Papantonopoulos: Quantum effects in Galileon black holes *Class.Quant.Grav.* 35 (2018) no.23, 235016, [arXiv:1803.05489v2 \[gr-qc\]](#)

SCHOLARSHIPS/
FUNDING

2019 - 2021

- Hellenic Foundation for Research and Innovation (HFRI) and the General Secretariat for Research and Technology (GSRT), Grant Agreement No 2595. *Title:* “Holographic Applications of Quantum Entanglement”.

2017

- Reward Grant of KA 63/189300 under the code 67091501. *Title:* “Sphaleron Type Solutions and Applications in Cosmology”.

2015

- ARISTEIA II action of the operational program education and long life learning, co-funded by the European Union (European Social Fund) and National Resources. *Title:* “Investigation of certain higher derivative term field theories and gravity models”.

2014 - 2015

- CERN-IKY fellowship.

SCIENTIFIC VISITS 5.12.2017 - 8.12.2017

- Department of Physics, University of Crete, Heraklion, Greece

26.01.2016 - 13.02.2016

- Laboratoire de Physique Theorique, Ecole Normale Superieure, Paris, France

13.04.2015 - 17.04.2015

- Department of Physics, University of Crete, Heraklion, Greece

CONFERENCES,
WORKSHOPS,
SCHOOLS

2019

- HEP-2019, Athens, Greece

2018

- HEP-2018, Athens, Greece

2017

- Xmas Theoretical Physics Workshop, Athens, Greece
- Ninth Aegean Summer School: Einstein’s Theory of Gravity and its Modifications: From Theory to Observations, Sifnos, Greece
- HEP-2017, Ioannina, Greece

2016

- Xmas Theoretical Physics Workshop, Athens, Greece
- Gravitational Waves in Modified Gravity Theories, Athens, Greece

2015

- Xmas Theoretical Physics Workshop, Athens, Greece
- Summer School and Workshop on the Standard Model and Beyond, Corfu, Greece

- Planck 2015, Ioannina, Greece

2014

- Solvay Doctoral School, Brussels, Paris, Geneva

2013

- 7th Crete Regional Meeting in String Theory, Kolympari, Crete, Greece

2012

- XVIII European Workshop on String Theory, Corfu, Greece

TEACHING
EXPERIENCE

2017 - 2018

- ◇ Teaching Assistant: General Theory of Relativity, National Technical University of Athens
- ◇ Lab Assistant: Wave Mechanics and Quantum Physics Labs, National Technical University of Athens
- ◇ Teaching Assistant: Quantum Mechanics II, National Technical University of Athens
- ◇ Teaching Assistant: Electromagnetic Fields, National Technical University of Athens
- ◇ Lab Assistant: Classical Mechanics Labs, National Technical University of Athens
- ◇ Lab Assistant: Wave Mechanics Labs, National Technical University of Athens

2016 - 2017

- ◇ Teaching Assistant: Quantum Mechanics II, National Technical University of Athens

LANGUAGE SKILLS Greek, native

English, fluent

German, intermediate

COMPUTER SKILLS Experience with Fortran, Microsoft Office, Latex, and Wolfram Mathematica

MILITARY SERVICE 2009 - 2010