

# Curriculum Vitae



## PERSONAL INFORMATION

**Dimitrios Manolopoulos**

✉ [manolopoulos@inp.demokritos.gr](mailto:manolopoulos@inp.demokritos.gr)

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## EDUCATION

- Sep 2007 – June 2011 **PhD Applied Mathematics (Mathematical Physics)** EQF level 8  
King's College London (UK)  
Dissertation: *Fusion of Perturbed Defects in Conformal Field Theory* [PDF]  
Supervisor: Prof. Dr. Ingo Runkel
- Sep 2005 – June 2006 **MSc in Mathematics** EQF level 7  
Queen Mary University of London (UK)  
First class with distinction
- Sep 2002 – June 2005 **BSc in Mathematics** EQF level 6  
Kingston University London (UK)  
First Class Honors

## WORK EXPERIENCE

- Jan 2020 – now **Post-doctoral Scientific Collaborator**  
Research in Theoretical High Energy Physics under the project Holographic Applications of quantum Entanglement “HAPPEN”, focused on Quantum Entanglement in QFT and Holographic Entanglement Entropy. National Center for Scientific Research “Demokritos”, Institute of Nuclear and Particle Physics, Athens, Greece.  
Principal Investigator: Dr Georgios Pastras. Supervisor: Prof. Minos Axenidis.
- June 2017 – Dec 2018 **Scientific Coordinator (Project Management)**  
Coordinator of the European TEAMING project, Phase 1: SIMulation and DATA Science “SIMDAS”.  
Coordinator of the European Joint Doctorate (EJD) project: SimulATIOn in MULTiscale physICal and biological sysTEms “STIMULATE”.  
Computation-based Science and Technology Research Center (CaSToRC), The Cyprus Institute, Cyprus  
Supervisor: Prof. Constantia Alexandrou.
- Oct 2014 – June 2017 **Post-doctoral Scientific Collaborator**  
Research in Theoretical High Energy Physics under the project “ARISTEIA I” focused on integrability in 2d-Conformal Field Theories, Non-Abelian T-Duality and its partition function for the  $\widehat{\mathfrak{su}}(2)_k$ -WZW model.  
Department of Nuclear and Particle Physics, Faculty of Physics, National and Kapodistrian University of Athens.  
Supervisor and Principal Investigator: Prof. Konstantinos Sfetsos.
- Sep 2007 – June 2011 **PhD Candidate**  
Research in Mathematical Physics and in particular in 2d-CFTs with topological defects, axiomatic formulation of such theories by means of Category Theory and 3d-Topological Field Theory and study of the representation category of the Virasoro algebra.  
Department of Mathematics, King's College London, United Kingdom  
Supervisor: Prof. Dr. Ingo Runkel

## ADDITIONAL INFORMATION

- Publications**
- D. Katsinis, D. Manolopoulos, I. Mitsoulas, G. Pastras, *Dressed Minimal Surfaces in AdS4*, *J. High Energ. Phys.* **2020**, 128 (2020). DOI: [10.1007/JHEP11\(2020\)128](https://doi.org/10.1007/JHEP11(2020)128), arXiv:2007.10922
- B. Fraser, D. Manolopoulos and K. Sfetsos, *Non-Abelian T-duality and modular invariance*, *Nuclear Physics B* **934** (2018) 498-520, DOI: [10.1016/j.nuclphysb.2018.07.017](https://doi.org/10.1016/j.nuclphysb.2018.07.017), arXiv:1805.03657

D. Manolopoulos and G. Pastras, *Holographic Rényi Entropies and Restrictions on Higher Derivative Terms*, *PoS (CORFU2014) 157*, arXiv:1507.08595

D. Manolopoulos and G. Pastras, *Charged Rényi Entropies in CFTs with Einstein-Gauss-Bonnet Holographic Duals*, *J. High Energ. Phys.* **2014** 007 (2014), DOI: 10.1007/JHEP11(2014)007, arXiv:1404.1309

D. Manolopoulos and I. Runkel, *A Monoidal Category for Perturbed Defects in Conformal Field Theory*, *Commun. Math. Phys.* **295** (2010) 327-362, DOI: 10.1007/s00220-009-0958-2, arXiv:0904.1122

**Talks** **17-20 Apr 2019** HEP 2019 – Conference on Recent Developments in High Energy Physics and Cosmology, NCSR “Demokritos”, Athens

Talk: *Quantum Aspects of Non-Abelian T-Duality* [PDF]

**15 Jan 2016** Athens Regional meeting in Theoretical High Energy Physics, National Technical University of Athens

Talk: *Defects as Integrable Perturbations of 2d-CFT* [PDF]

**Public Talk** **June 2012** Popularized dissemination in Greek to Officials as well as privates of the Hellenic Army Telecommunication Technicians Training School (Σ.Ε.Τ.ΘΑ), Pyrgos

Talk in Greek: *Το Σύμπαν των «Αισθήσεων» και των «Παραισθήσεων»* [PPT]

**Schools** **21 – 22 Dec 2016** Xmas Theoretical Physics Workshop @Athens 2015, University of Athens

**9 Jan 2015** Standard Model and Beyond – Unscaling SUSY, Workshop in honor of Athanasios Lahans, University of Athens

**19 Dec 2014** Xmas Theoretical Physics Workshop, University of Athens

**30 Nov – 4 Dec 2009** Interfaces and Wall Crossings, Workshop, Arnold Sommerfeld Center for Theoretical Physics, Munich (DE)

**9 – 13 Feb 2009** Supergravity, Strings and Gauge Theories, Winter School, CERN, Geneva (CF)

**Conferences/Symposia** **15 – 18 Apr 2015** HEP 2015, Conference on Recent Developments in High Energy Physics and Cosmology, University of Athens

**3 – 4 Apr 2009** Integrable Models, Conformal Field Theory and Related Topics, 13th Annual UK Meeting, Oxford (UK)

**24 – 25 Apr 2008** Gravity, Supersymmetry and Branes, Meeting in Celebration of Kellogg Stelle's 60<sup>th</sup> Birthday, Imperial College, London (UK)

**15 – 15 Dec 2007** Fields, Lattices and Condensed Matter, A symposium in honour of John Cardy's 60<sup>th</sup> birthday, The Rudolf Peierls Centre for Theoretical Physics, Oxford University (UK)

**Awards & Scholarships** **2009** Greek Scholarship for postgraduate studies abroad.

**2007** Science & Technology Facilities Council, four-year scholarship for PhD in Mathematics.

**2005** Queen Mary University of London, scholarship for MSc in Mathematics.

**2005** Institute of Mathematics and its Applications, awards for best overall performance in the exams of the final year of the BSc

**2005** Kingston University, award for the best final year dissertation.