DARIO PARTIPILO

Research Scientist in Theoretical Physics and AI

PROFILE

I am a Research Scientist working on String Theory Phenomenology and Supergravity theories. I am also a tech passionate and my research lies at the interface between Theoretical High Energy Physics and Artificial Intelligence.

AREAS OF COMPETENCE

- Physics
- Mathematics
- Algorithms and implementations

TECHNICAL SKILLS

- Problem Solving
- Parallel programming
- Phyton, Mathematica, Latex
- Machine Learning and optimization
- English

SOCIAL SKILLS

- Leadership
- Team-oriented personality
- Open-minded
- Led by a genuine desire to achieve knowledge, excel and evolve
- Driven by progress and science
- Strong intercultural communication skills

CONTACTS

Phone: +39 3406367325
Email: dario.partipilo@icloud.com
Website: www.dariopartipilo.it
Adress: via Massaua, 1 -Bari

WORKING EXPERIENCES

Associate - Market Risk Strats
Goldman Sachs
October 2022 - Present

Consultant
Italian Ministry of Economic Development
July - November 2022

Data Analyst and Software Developer
Esim Group
2017 - 2018
- Developing and implementing algorithms for the Train Running Control system (SCMT)
- FPGA programming
- Lab testing of different tech-equipments

Tutor
University of Pisa
2014 - 2016
- Teaching Physics and Mathematics to University students
- Teaching Physics, Mathematics, Chemistry and Biology to High School students

ACCADEMIC CAREER

University of Padua

Ph.D. in Physics, 2022

- Ph.D. students' representative in the Council of the Ph.D. school
- Ph.D. students' representative in the Council of the Physics Department
- INFN member
- Optimization Algorithms for String Theory computations
- Application of crittografic techniques to Supergravity problems

University of Cambridge

Master in Applied Mathematics, 2017

- Selwyn College
- Member of Physics Society (CUPS)
- Graduated with Distinction

University of Pisa

Bachelor in Physics, 2016

- Graduated with 110/110 cum Laude
- Thesis on the Unruh Effect, Supervisor: Prof. M. D'Elia

RELEVANT PUBLICATIONS

(Machine) Learning Supergravity Vacua

Ph.D. Thesis (2022)
Dario Partipilo

New methods for old problems: vacua of maximal D = 7 supergravities

arXiv:2205.06245 [hep-th] (2022)
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Old and new vacua of 5D maximal supergravity

J. High Energ. Phys. 2021, 39 (2021).
https://doi.org/10.1007/JHEP04(2021)039
G. Dall'Agata, G. Inverso, D.Partipilo