

DARIO PARTIPILO

Ph.D. Student in Theoretical Physics

PROFILE

I am a Ph.D. student 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

- Problem Solving
- Physics
- Mathematics
- Algorithms and implementations

TECHNICAL SKILLS

- Parallel programming
- Python, Mathematica, Latex
- Machine Learning and optimization
- English

SOCIAL SKILLS

- Leadership ability
- Team-oriented personality
- Open-minded
- A genuine desire to achieve, excel and evolve

CONTACTS

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WORKING EXPERIENCES

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 all scientific subjects 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 Department
- Optimization Algorithms for String Theory computations
- Application of cryptographic 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

Old and new vacua of 5D maximal supergravity

J. High Energ. Phys. 2021, 39 (2021).

[https://doi.org/10.1007/JHEP04\(2021\)039](https://doi.org/10.1007/JHEP04(2021)039)