

Athanasios K. Voutouras

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Education

M.Sc. in Theoretical Physics

2023

Uppsala University

- Thesis: *Pure Yang-Mills amplitudes in 5D*
- Extra advanced courses in Geometry, Quantum Computing & Seminars in Supersymmetry
- Project in mathematical physics “*Global Anomalies for free Majoranna Fermions*”

B.Sc. in Physics

2020

National and Kapodistrian University of Athens

- Track: Nuclear and Particle Physics
- Advanced courses: *Classical Field Theory, Many-particle quantum systems, Quantum Computation, Differential Geometry*

Experience

Physics Tutor

Sep 2022 - Jun 2023

- High-school level physics (One-on-one & Classroom setting)
- University level (engineering) mechanics, thermodynamics, fluid dynamics

Research Assistant (Internship)

Jan 2019 - Sep 2019

National Centre for Scientific Research "Democritos"

Institute of Nuclear and Particle Physics, KM3NeT Collaboration

Tasks: *Analysis on Monte Carlo event triggering techniques, Exploring methods for muon detection*

Tutor

2017 - 2018

Volunteer tutor/teacher for the local after-school programme

Subjects taught: High-school level Physics and Mathematics

Skills

• Programming

- Scientific computing and statistics with python (scipy, numpy, pandas, qiskit and more)
- Data analysis with C/C++ (ROOT and custom frameworks)
- Mathematica, MATLAB for scientific applications and research
- Development of small projects with .NET (C#)
- Amateur website building (nginx server, Jekyll). Currently using Jekyll on GitHub Pages.

• Miscellaneous

- IBM Qiskit Global Summer School 2021 on Quantum Machine Learning
- Various online courses on Computer Science, Data Analysis and Scientific Computing
- Experience with GNU/Linux platforms

• Soft Skills

- Excellent communication skills, very accessible and cooperative
- Can adapt easily and function under (work related) pressure
- Able to learn quickly and understand difficult concepts
- Critical thinking