

# Athanasios K. Voutouras

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Department of Physics and Astronomy

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## Education

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- 2023 **M.Sc. in Theoretical Physics**  
*Uppsala University*  
Track: Theoretical Physics - Quantum Fields and Strings  
Thesis: *Pure Yang-Mills amplitudes in 5D*
- 2020 **B.Sc. in Physics**  
*National and Kapodistrian University of Athens*  
Track: Nuclear and Particle Physics

## Experience

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- 2023 **Physics Tutor**  
- High-school level physics (Private & Classroom setting)  
- University level (engineering) mechanics, thermodynamics, fluid dynamics
- 2019 **Intern Research Assistant**  
*National Centre of Scientific Research "Democritos"*  
Institute of Nuclear and Particle Physics, KM3NeT Collaboration  
Type: Internship (funded), duration: February - August 2019  
Task: *Analysis on Monte Carlo event triggering techniques*
- 2018 **Tutor**  
Volunteer tutor/teacher for the local after-school programme  
Subjects taught: High-school level Physics and Mathematics

## Programming and Computer Skills

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- **Languages:** C, C++, Python
- IBM Qiskit Global Summer School 2021 on Quantum Machine Learning
- **Software:** MATLAB, GNU Octave, Mathematica, Origin
- **Misc:**
  - Experience with ROOT, pandas, Qiskit
  - Online courses: data analysis and scientific computing with Python, computer science (Algorithms)
  - **Typesetting, Markup, Web:** L<sup>A</sup>T<sub>E</sub>X, Markdown, Mainstream Office Suites, HTML, CSS
  - GNU/Linux platforms and bash scripting.

## Languages

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- Greek (Native)
- English (IELTS)