

# STAVROULA MARKOVITS

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## Curriculum Vitae

### OBJECTIVE

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Physics undergraduate at the University of Ioannina. Currently conducting Bachelor's thesis research on  $^{50}\text{Cr}(n,p)$  reactions using **Geant4** and **ROOT** under the supervision of Prof. N. Patronis (n\_TOF Spokesperson) and Prof. V. Foteinou (n\_TOF Collaboration Member). Experienced in hardware-software integration involving FPGAs, Microcontrollers, and LabVIEW.

### EDUCATION

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**B.Sc. in Physics, University of Ioannina** Jan 2021 - Feb 2027 (Expected)

#### Selected Academic Performance:

- Atomic Physics and Laser 8.5 / 10.0
- Laboratory Courses in Electromagnetism 8.0 / 10.0
- Mathematical Methods for Physicists 7.0 / 10.0
- Nuclear Physics I 10/10

### EXPERIENCE

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**B.Sc. Thesis Student**, University of Ioannina Jan 2026 - Feb 2027

*Project: Simulation of the  $^{50}\text{Cr}(n,p)$  reaction using Geant4*

**Supervisors: Prof. Nikolas Patronis, Prof. Varvara Foteinou**

- **Preparatory Phase (Current):** Acquiring experience in Geant4 and ROOT frameworks to establish the computational foundation for the thesis.

### UPCOMING COURSEWORK (SPRING 2026)

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**Modern Physics Lab:** Experimental study of particle interactions and spectroscopy.

**Mathematics with Computers:** Numerical modeling and algorithms via SageMath.

**Measurements and Automations:** Sensor technologies and Data Acquisition systems using LabVIEW.

**Nuclear Physics and Technology:** Advanced nuclear models and radiation detection.

### TECHNICAL PROJECTS

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**Microprocessor-based Data Acquisition** *Supervisor: Prof. C. Fountas (CERN Council President)*

- Programmed an **ATmega1284** in **AVR Assembly** using **Atmel Studio** for ADC and real-time signal processing.

**FPGA Digital Logic Design** *Supervisor: Prof. V. Christofilakis*

- Designed an **FPGA** timekeeping system using **Altera Quartus** and HDL principles.

### TECHNICAL SKILLS

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<b>Programming</b>	C++, C, Python, AVR Assembly, Bash scripting
<b>Scientific Tools</b>	Geant4, ROOT, LabVIEW, Altera Quartus, Atmel Studio, SageMath
<b>Operating Systems</b>	Linux (Ubuntu), Windows
<b>Languages</b>	English (B2 Cambridge), French (B2 Sorbonne), Greek (Native)