



William Cursio

● WORK EXPERIENCE

23/11/2023 – CURRENT Rome, Italy

CLASSROOM TUTOR SAPIENZA UNIVERSITY OF ROME

Awarded the tutoring position through a merit-based process.

Fostering an inclusive and engaging learning environment, encouraging students to excel through teamwork and active participation.

Guiding students in comprehending fundamental theories, problem-solving techniques, and analytical skills.

Providing personalized guidance to address unique learning needs, ensuring every student has the tools to succeed.

01/2021 – 01/2022 Rome, Italy

PHYSICS COLLABORATION FELLOWSHIP SAPIENZA UNIVERSITY OF ROME

Library assistant in the Physics Department Library of Sapienza.

- Library Collection Management: Acquisition, cataloging, and organization of materials in the library, including books, magazines, newspapers, DVDs, and digital resources.
- User Assistance: Providing assistance and guidance to users in researching and accessing library resources. Assisting users in locating specific materials, providing bibliographic information, and supporting information retrieval.

● EDUCATION AND TRAINING

12/2022 – CURRENT Rome, Italy

MASTER IN PHYSICS Sapienza University of Rome

I am currently attending the first year of Master in Physics. I am specializing in the study of condensed matter.

The scheduled courses focus on fundament of Condensed Matter, Introduction to Quantum Field Theory and physics of Solids and Liquids.

Field of study Physics

09/2019 – 12/2022 Rome, Italy

BACHELOR DEGREE IN PHYSICS Sapienza University of Rome

In my thesis project I study the limitations of a single-particle mean-field theory in describing the H- ion. This corresponds to its inability to fully account for electron correlation effects. In this system, electron-electron interactions play a significant role, and a single-particle description neglects these correlations. On the other hand, a description of electronic correlation based on a two-parameter wave function has shown success in capturing the electron-electron interactions and providing a more accurate representation of the H- ion.

In the project, I calculate the ionization energy value by developing a Python script.

Field of study Physics | **Final grade** 110/110 |

Thesis Limits of a single-particle mean-field theory in describing the H- ion and the success of a description of electronic correlation based on a two-parameter wave function.

09/2014 – 06/2019 Italy

SCIENTIFIC HIGH SCHOOL DEGREE "Liceo Scientifico Giuseppe Peano"

Final grade 100/100 Cum laude

● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	C1	B2	B2	B2
SPANISH	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

Microsoft Office | Microsoft Powerpoint | Microsoft Excel | Microsoft Word | Google Drive | Social Media | Programming: Python, Matlab, Mathematica, LaTex | Programming: C Programming

● **ADDITIONAL INFORMATION**

COMMUNICATION AND INTERPERSONAL SKILLS

General Skills • Resilience in stress conditions

- Team-working
- Problem solving
- Ability to organize work in a limited amount of time

Ai fini della pubblicazione

Data, 28/01/2024

F.to William Cursio