



# William Cursio

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## ● WORK EXPERIENCE

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23/11/2023 – CURRENT Rome, Italy

### **CLASSROOM TUTOR** SAPIENZA UNIVERSITY OF ROME

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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

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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

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12/2022 – CURRENT Rome, Italy

### **MASTER IN PHYSICS** Sapienza University of Rome

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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

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In my thesis project i study the limitations of a single-particle mean-field theory in describing the H- ion. This correpond 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"

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**Final grade** 100/100 Cum laude

## ● LANGUAGE SKILLS

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Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	B2	C1	B2	B2	B2
<b>SPANISH</b>	A2	A2	A2	A2	A2

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

## ● DIGITAL SKILLS

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

## ● ADDITIONAL INFORMATION

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### COMMUNICATION AND INTERPERSONAL SKILLS

- General Skills** • Resilience in stress conditions
- Team-working
  - Problem solving
  - Ability to organize work in a limited amount of time
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Ai fini della pubblicazione

Data, 28/01/2024

F.to William Cursio