

Alessandro Serra

📍 Cagliari, Italy

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🔗 Alessandro Serra

Education

High School	Liceo Scientifico A. Pacinotti , Cagliari (Italy) <ul style="list-style-type: none">High School Scientific Diploma	Sept 2014 – June 2019
BSc	Cagliari State University , Physics <ul style="list-style-type: none">Graduated with 110/110 <i>cum laude</i>Dissertation Thesis Applications of Nano-Granular Gold Clusters in Neuromorphic Computing: a Computational Approach	Sept 2019 – July 2023
MSc	Cagliari State University , Computational Condensed Matter Physics <ul style="list-style-type: none">MSc in the Department of Physics "Excellence Track"	Oct 2023 – Present

Experience

Private , Math & Physics Tutor <ul style="list-style-type: none">Self employed tutor for high school and bachelor degree students in the fields of Mathematics and Physics	Cagliari, Italy Sept 2019 – Present
Cagliari State University , "Computational Physics" Course Teaching Assistant <ul style="list-style-type: none">Teaching Assistant of the Bachelor Degree course "Computational Physics" regarding the application of Python and Data Analysis to Physics	Cagliari, Italy March 2024 – July 2024
Istituto Nazionale di Fisica Nucleare (INFN) , Tutor <ul style="list-style-type: none">III Mission INFN Tutor for the Cagliari Division.	Cagliari, Italy July 2024 – Present

Projects

"Computational Physics" Course Tutoring Repository <ul style="list-style-type: none">Repository created and maintained to help students develop their Python skills for applications in PhysicsTools Used: Python, Jupiter Notebooks, LaTeX	github.com/AlessandroSerra/FFC_2024 🔗
DynaPhoPy Quick Use Guide <ul style="list-style-type: none">Repository created and maintained in order to give a practical guide for using the Phonon-Calculation-Software DynaPhoPy (github.com/abelcarreras/DynaPhoPy) to students and researchers of my universityTools Used: Python, Bash, Latex	github.com/AlessandroSerra/DynaPhoPy 🔗

Scholarship and Awards

Excellence Course - Department of Physics <ul style="list-style-type: none">Winner of the "Excellence Course" for the Master Degree in Physics for the year 2023/2024 issued by the Department of Physics, Cagliari State University	Oct 2024
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Programming Languages and Tools

Python Excellent Knowledge

Shell Good Knowledge

C++ Good Knowledge

HTML & CSS Basic Knowledge

Linux Good Knowledge

Machine Learning Basic Knowledge

OpenMPI Basic Knowledge

LAMMPS Good Knowledge

Quantum Espresso Good Knowledge

Languages

Italian Native Speaker

English C1 Level

Spanish A2 Level