

Luís Leitão

MSC STUDENT IN ENGINEERING
PHYSICS

Contact

+351 939933931
luish.leitao@gmail.com
luishleitao.com
linkedin.com/in/luishleitao
github.com/
Lisbon, Portugal

About me

I'm passionate about applying mathematics, physics and machine learning to uncover patterns and model social phenomena: from financial markets and economic behaviour to language and cultural evolution. I'm drawn to problems whose solutions can make everyday life a little easier. Want to know more about me? Visit my website!

Technical skills

Programming: Python, SQL, LaTeX, Matlab
Tools: Git, VS Code, Linux, macOS, Windows

Languages

Portuguese - C2 (native)
English - C1
French - A2 (learning)

Interests

Reading, running, cycling, swimming, spearfishing, investing, music, surfing

Education

Master's degree in Engineering Physics

FCUL – University of Lisbon

Sep 2023 – Present

- Currently pursuing the second year of the Master's degree with coursework spanning optics, nuclear physics, control theory, and complex systems (with a strong focus on econophysics).
- Participation in the hands-on course at the JSI TRIGA research nuclear reactor, in Ljubljana, covering techniques for neutron detection.

Erasmus+ Exchange Student

Sorbonne Université, Paris

Sep 2024 – Jan 2025

- Integrated within the Master's in Physics, specializing in machine learning.

Bachelor's degree in Engineering Physics

FCT - NOVA

Sep 2019 – Aug 2022

- Developed strong foundations in mathematics, classical and quantum physics, electronics, and programming.
- Engaged in the student association, where I organized multiple workshops, lectures and interviews. As Treasurer, managed the budget and bank account, and prepared detailed financial reports.

Experience

Research Fellow

NUC-RIA, LIP

Mar 2023 – Present

- Supported by an 18-month FCT research grant, this work involved the calculation of atomic parameters for heavy ions and astrophysical simulations for kilonovae nucleosynthesis.
- Supervised two bachelor's students during a summer internship focused on developing a database and a corresponding website for data access.
- Publication on *Physical Review A*: R. F. Silva, A. Flörs, L. Leitão, "Systematic Bayesian Optimization for Atomic Structure Calculations of Heavy Elements"
- Presented 1 talk and 3 posters at conferences including: IBER2023, Russbach 2024, FÍSICA2024 and NIC2025.
- Python | FAC (relativistic atomic structure code) | SQL | HTML

Math and physics tutor

Jan 2020 – Sep 2024

- Math and physics tutor for high school students, balancing 4 to 9 hours per week alongside academic and research commitments.

Intern

Instituto de Astrofísica e Ciências do Espaço

Jan 2022 – Mar 2022

- Research on a sample of high redshift galaxies spectra taken from the MOS-DEF survey, using Python and the FADO tool with the goal of predicting the contribution of nebulae to the global makeup of the galaxies.

Volunteering

School Assitant

Escola Humberto Braima Sambu, Guiné Bissau

Sep 2022 – Oct 2022

- Supported education and operations during school holidays.

Scout

CNE

Sep 2011 – Aug 2022

- Member for 11 years, leading teams and participating in various volunteer initiatives.