

Filipe Nazaré Santos

Vila Nova de Gaia, Porto, Portugal

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Education

Instituto Superior Técnico

MSc. Applied Mathematics, Avg. grade (so far): 19/20

September 2024 – Ongoing

Lisbon, Portugal

Instituto Superior Técnico

BSc. Engineering Physics, Avg. grade: 18/20

October 2021 – July 2024

Lisbon, Portugal

Escola Quark

Physics School

April 2021 – December 2021

Universidade de Coimbra, Portugal

Colégio de Nossa Senhora da Bonança

High School, Avg. grade: 19.9/20

September 2018 – June 2021

Vila Nova de Gaia, Portugal

Networks and Memberships

President of the Physics Student's Association

Instituto Superior Técnico, NFIST

October, 2023 – October 2024

Lisbon, Portugal

- Management of the largest Physics Student's Association in Portugal, NFIST
- NFIST projects include Semana da Física, Física sobre Rodas, Jornadas de Engenharia Física and Escola de Verão de Astronomia

Instructor and Course Coordinator

TreeTree2

February, 2022 – Ongoing

Lisbon, Portugal

- Coordinator of the Special Relativity Afterschool course
- Instructor at 2 editions of the Physics Bootcamp course, 1 edition of the Astrophysics course and 1 edition of the Programming course
- Coordinator of the Atlas Project, alongside Gabriel Almeida
- Coordinator of the Physics Summer Academy and the (upcoming) Advanced School on Physics.

Member of AEIST

Instituto Superior Técnico, AEIST

November, 2024 – November, 2025

Lisbon, Portugal

- Worked for the Editorial Department of AEIST, Técnico's general student's association

Work and Teaching Experience

Mini-course Coordinator

Instituto Superior Técnico

September, 2025 - June, 2026

Lisbon, Portugal

- Coordinator of the "Complementos de Matemática", a series of courses about mathematical techniques and topics applied to Physics, such as Hilbert Spaces, Tensor Calculus and Group Theory. The courses are endorsed by the IST Department of Physics.

Teaching Assistant

Instituto Superior Técnico

April, 2024 – July, 2025

Lisbon, Portugal

- 2023/2024 Mechanics and Waves (Main Professor: Prof. Mário Pimenta)
- 2024/2025 Linear Algebra (Main Professor: Prof. João Alves)
- 2024/2025 Probability and Statistics (Main Professor: Prof. Manuel Cabral Morais)
- 2026/2027 Probability and Statistics (Main Professor: Prof. Giovanni Silva)

Summer Internship

INESC MN

July, 2023 - August, 2023

Lisbon, Portugal

- Worked in the project "Smart labels for digital and green textile industry", oriented by Prof. Maryam Salimian

Internship September, 2023 - February, 2024
IPFN - GoLP *Lisbon, Portugal*
 • Worked in the project "Compact ion acceleration using microstructured targets", oriented by Prof. Frederico Fiuza

Paid Tutor January, 2023 – June, 2024
Portal da Sabedoria *Lisbon, Portugal*
 • Tutoring in Maths and Physics for both high school and University students
 • Developer of a website with Maths summaries

Volunteering

Volunteer Tutor November, 2022 – September 2023
Explicamisto *Lisbon, Portugal*
 • Tutoring in Maths, Physics and Chemistry for a disadvantaged high school student
 • Member of the organisation's Pedagogical Department

Awards & Honors

"Jaime Campos Ferreira" Prize for Best Masters Student 2026
Instituto Superior Técnico, Lisbon
Academic Excellence Diploma 2025
Instituto Superior Técnico, Lisbon
Centra and CoG Masters Research Grant 2025
Instituto Superior Técnico, Lisbon / Niels Bohr Institute, Copenhagen
"Jaime Campos Ferreira" Prize for Best Masters Student 2025
Instituto Superior Técnico, Lisbon
Gulbenkian "Novos Talentos em Matemática" Grant 2024
Fundação Calouste Gulbenkian, Lisbon
Academic Excellence Diploma 2024
Instituto Superior Técnico, Lisbon
Academic Merit Diploma 2023
Instituto Superior Técnico, Lisbon
Academic Merit Diploma 2022
Instituto Superior Técnico, Lisbon
Silver Medal at the Ibero-American Physics Olympiads 2022
Sociedade Brasileira de Física, Lisbon
2nd place at the "A Empresa" Fair, North Region 2021
Junior Achievement, Porto

Specialized Skills

Programming Languages: Python (intermediate), Mathematica (intermediate), C/C++ (intermediate), Julia (beginner)
Languages: Portuguese (native speaker), English (advanced), Italian (intermediate)

Other Interests

Athletics: Gym 3 times a week
Instruments: Acoustic and electric guitar, piano
Hobbies: Reading, traveling, cinema