

Filipe Nazaré Santos

Vila Nova de Gaia, Porto, Portugal

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Education

Instituto Superior Técnico <i>MSc. Applied Mathematics, Avg. grade (so far): 19</i>	September 2024 – Ongoing <i>Lisbon, Portugal</i>
Instituto Superior Técnico <i>BSc. Engineering Physics, Avg. grade: 18</i>	October 2021 – July 2024 <i>Lisbon, Portugal</i>
Escola Quark <i>Physics School</i>	April 2021 – December 2021 <i>Universidade de Coimbra, Portugal</i>
Colégio de Nossa Senhora da Bonança <i>High School, Avg. grade: 19.9</i>	September 2018 – June 2021 <i>Vila Nova de Gaia, Portugal</i>

Networks and Memberships

President of the Physics Student's Association <i>Instituto Superior Técnico, NFIST</i> <ul style="list-style-type: none">• 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	October, 2023 – October 2024 <i>Lisbon, Portugal</i>
Instructor and Course Coordinator <i>TreeTree2</i> <ul style="list-style-type: none">• 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 (upcoming Advanced School on Physics, alongside Gabriel Almeida	February, 2022 – Ongoing <i>Lisbon, Portugal</i>
Member of AEIST <i>Instituto Superior Técnico, AEIST</i> <ul style="list-style-type: none">• Worked for the Editorial Department of AEIST, Técnico's general student's association	November, 2024 – November, 2025 <i>Lisbon, Portugal</i>

Work and Teaching Experience

Mini-course Coordinator <i>Instituto Superior Técnico</i> <ul style="list-style-type: none">• 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.	September, 2025 - Ongoing <i>Lisbon, Portugal</i>
Teaching Assistant <i>Instituto Superior Técnico</i> <ul style="list-style-type: none">• 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)	April, 2024 – July, 2025 <i>Lisbon, Portugal</i>
Summer Internship <i>INESC MN</i> <ul style="list-style-type: none">• Worked in the project "Smart labels for digital and green textile industry", oriented by Prof. Maryam Salimian	July, 2023 - August, 2023 <i>Lisbon, Portugal</i>

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

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), R (beginner)
Languages: Portuguese (native speaker), English (advanced), Italian (intermediate)

Other Interests

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