

Telmo Cunha

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EDUCATION

- **University of Lisbon - Instituto Superior Técnico (IST)** Lisbon, Portugal
MSc in Applied Mathematics and Computation - Pure Mathematics Track (GPA: 17/20) 2025
Thesis: Semilinear Wave Equations on Decelerated Expanding FLRW Spacetimes (Grade: 19/20)
(Courses finished in 2022; Thesis concluded in 2025)
- **École Polytechnique Fédérale de Lausanne (EPFL)** Lausanne, Switzerland
Swiss-European Mobility Programme in Theoretical Physics 2016-2017
- **University of Lisbon - Instituto Superior Técnico (IST)** Lisbon, Portugal
BSc in Engineering Physics - Theoretical Physics Track (GPA: 15/20) 2019
(Completed on a part-time basis)

ACADEMIC POSITIONS

- **Invited Assistant Professor at ISCTE – Instituto Universitário de Lisboa** Lisbon, Portugal
Taught Calculus I, Calculus II and Linear Algebra for 1st year Economics students. 2024-2025
- **Teaching Assistant at ISCTE – Instituto Universitário de Lisboa** Lisbon, Portugal
Review classes in Calculus for 1st year international Management students. 2024
- **Research Assistant at Aalto University (ASCI Program)** Helsinki, Finland
Studied equivariance properties of Graph Neural Networks - Work supervised by Prof. Vikas Garg. 2023

EXPERIENCE

- **Private Tutoring in Physics and Mathematics** Lisbon, Portugal
Tutored several students in introductory math and physics courses at the university and high-school level. 2014 - 2023
- **Translation at Altice Foundation** Lisbon, Portugal
Translation of mathematical content on Khan Academy from English to Portuguese. 2019-2020
- **Summer Research Intern at Instituto Gulbenkian de Ciência (IGC)** Oeiras, Portugal
Modelled the evolution of cancerous cells - Work supervised by Mónica Dias and Claudia Bank. 2016

EXTRACURRICULAR

- **LxMLS22 - Lisbon Machine Learning Summer School** Lisbon, Portugal
Completed the Lisbon Machine Learning Summer School. 2022
- **DeepLearning.AI Course** MOOC, Coursera
Completed the Neural Networks and Deep Learning online course. 2022
- **MIT Course - Computer Science and Programming** MOOC, edX
Completed the "Introduction to Computer Science and Programming Using Python" online course. 2021

SKILLS SUMMARY

- **Languages:** Portuguese (Native); English (Fluent); French/Spanish (Basic reading).
- **Programming Languages:** Python (Pytorch/Numpy/Scikit-learn/Pandas); C/C++; R.
- **Tools:** Mathematica; L^AT_EX.

(SOME) ACADEMIC PROJECTS

- **Mathematical Foundations of Machine Learning:** Wrote a set of notes exploring the basics of Learning Theory, Machine Learning and Kernel Methods, see [mathematical foundations of deep learning].
- **Manifold Learning:** Two projects for the courses in mathematics for machine learning and nonlinear optimization on manifold learning, see [manifold learning].
- **Feature Selection:** A project for the course in mathematics for machine learning on feature selection via information theoretic considerations, see [feature selection].
- **Collaborative Filtering:** A project for the course in mathematics for machine learning on collaborative filtering for a movie recommendation system based on matrix factorization methods, see [collaborative filtering].
- **Geometric Quantization:** A project exploring the basics of symplectic geometry and geometric quantization, see [geometric quantization].

HOBBIES

- Climbing / Guitar Playing / Boardgames / Reading.