

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) 2019-2025
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 - GPA: 15/20 2012-2019

ACADEMIC POSITIONS

- **Invited Assistant Professor at ISCTE – Instituto Universitário de Lisboa** Lisbon, Portugal
Mathematics I and Mathematics II for 1st year Economics students. September 2024 - August 2025
- **Teaching Assistant at ISCTE – Instituto Universitário de Lisboa** Lisbon, Portugal
Optimization for 1st year Management students. February 2024 - July 2024
- **Summer Research Assistant at Aalto University (ASCI Program)** Helsinki, Finland
Equivariance properties of Graph Neural Networks under the supervision of Prof. Vikas Garg. June 2023 - September 2023

EXPERIENCE

- **Private Tutoring in Physics and Mathematics** Lisbon, Portugal
Tutored several students in introductory math and physics courses at the university level. 2015 - 2023
- **Translation at Altice Foundation** Lisbon, Portugal
Translation of mathematical content on Khan Academy from English to Portuguese. December 2019 - April 2020
- **Summer Research Intern at Instituto Gulbenkian de Ciência (IGC)** Oeiras, Portugal
Modeling the evolution of cancerous cells under the supervision of Mónica Dias and Claudia Bank. June 2016 - August 2016

EXTRACURRICULAR

- **LxMLS22** Lisbon, Portugal
Attended the Lisbon Machine Learning Summer School. 2022
- **DeepLearning.AI Course** MOOC, Coursera
Took the Neural Networks and Deep Learning online course. 2022
- **MIT Course - Computer Science and Programming** MOOC, edX
Took the Introduction to Computer Science and Programming Using Python online course. 2021
- **Author at PULSAR Magazine** Lisbon, Portugal
Wrote a couple of articles for the physics student magazine at IST. 2015

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 research project, part of the master's in mathematics, exploring the basic mathematical setup for geometric quantization, see [geometric quantization].

HOBBIES

- Climbing / Guitar Playing / Boardgames / Reading.