

Telmo Cunha

Personal webpage: <https://tabdc.github.io/>

Email : telmocunha@gmail.com

Mobile : +351938285084

EDUCATION

- **University of Lisbon - Instituto Superior Técnico (IST)** Lisbon, Portugal
2019-2025
 - *MSc in Applied Mathematics and Computation - Pure Mathematics Track (GPA: 17/20)*
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
2016-2017
 - *Swiss-European Mobility Programme in Theoretical Physics*
- **University of Lisbon - Instituto Superior Técnico (IST)** Lisbon, Portugal
2012-2019
 - *BSc in Engineering Physics - Theoretical Physics Track (GPA: 15/20)*
(Conducted on a part-time schedule.)

ACADEMIC POSITIONS

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

EXPERIENCE

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

EXTRACURRICULAR

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

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.