Telmo Cunha

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Github: https://github.com/tabdc

EDUCATION

University of Lisbon - Instituto Superior Técnico (IST)

Lisbon, Portugal

Master's in Applied Mathematics and Computation (working on the master's thesis) - GPA: 17/20 2020 - 2023 Courses: Foundations of Topology and Real Analysis; Groups, Rings and Modules; Ordinary Differential Equations; Partial Differential Equations; Differential Topology; Riemannian Geometry; Geometric Mechanics; Mathematics for Machine Learning; Nonlinear Optimization; Reinforcement Learning; Research Project in Geometric Quantization; Seminar course in Statistical Learning Theory and the Neural Tangent Kernel

École Polytechnique Fédérale de Lausanne (EPFL)

Lausanne, Switzerland 2016 - 2017

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Swiss-European Mobility Programme in Theoretical Physics

University of Lisbon - Instituto Superior Técnico (IST)

Lisbon, Portugal

Bachelor's in Engineering Physics - GPA: 15/20

2012 - 2018

EXPERIENCE

Research Assistant at Aalto University

Theoretical aspects of Deep Learning

Helsinki, Finland April 2023 - September 2023

Altice Foundation - Khan Academy

Lisbon, Portugal

Translation of mathematical content on Khan Academy from English to Portuguese

December 2019 - April 2020

Summer Research Internship at Instituto Gulbenkian de Ciência (IGC)

Oeiras, Portugal

Modeling the evolution of cells with varying centriole numbers in cancer

June 2016 - August 2016

Extracurricular

PyTorch for Deep Learning (ZTM)

Course on the deep learning Pytorch framework

MOOC, Udemy 2023

LxMLS22

Lisbon, Portugal

Lisbon Machine Learning Summer School

DeepLearning.AI Course

MOOC, Coursera

Neural Networks and Deep Learning

2022

2021

MIT Course

MOOC, edX

Introduction to Computer Science and Programming Using Python

University of Würzburg Summer School

Würzburg, Germany

Aerospace Information Technology

Lisbon, Portugal

Author at PULSAR Magazine

2014 - 2015

Writer for the physics student magazine at IST

SKILLS SUMMARY

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

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 leaning and nonlinear optimization on manifold learning, see [manifold learning].
- Feature Selection: A project for the course in mathematics for machine leaning on feature selection via information theoretic considerations, see [feature selection].
- Collaborative Filtering: A project for the course in mathematics for machine leaning 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].