MARCELO **GONÇALVES**

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Education

linkedin.com/in/marcelo-rgoncalves

IST - University of Lisbon   Sept 2021 - Present
MSc in Engineering Physics   Lisbon, Portugal
· **Current curricular year:** 2nd
· **Relevant coursework:** Object Oriented Programing, Computational Physics

University of Twente – ERASMUS Exchange   Sept 2021 - Feb 2022
MSc in Applied Physics   Enschede, Netherlands
· **Relevant coursework:** Machine Learning, Data Science

IST - University of Lisbon   Sept 2018 - Jul 2021
BSc in Engineering Physics   Lisbon, Portugal
· **Final grade:** 15/20

Experience

Teaching Assistant   Feb 2023 - Jul 2023
Instituto Superior Técnico, University of Lisbon   Lisbon, Portugal
· Supporting with instructional responsibilities and leading tutorial sessions on the courses:
    · Mechanics and Waves
    · Physics-I

Summer Internship   Summer 2020
Laboratory of Instrumentation and Experimental Particle Physics (LIP)   Lisbon, Portugal
Exploring the Fast Evolution of QGP:
· Simulation of interactions between jets and the QGP medium formed in the collision, using a jet quenching Monte Carlo event-generator.

Publications

Poster in Conference   March 2023
· Gonçalves, Marcelo; Ventura, Rodrigo; Guerra, Vasco; C Dias, Tiago.   San Francisco, USA
Machine Learning for Optimizing Plasma Resource Utilization on Mars.
Work presented in AAAI Spring Symposium on Computational Approaches to Scientific Discovery, 2023.

Article
· Mendes, E., & Gonçalves, M. (2020). _Exploring the fast evolution of quark gluon plasma_,
LIP-STUDENTS-20-03

Skills

Code Languages: Python, C++, C, Java, Wolfram Language
Technologies: Pytorch, Tensorflow, Scikit-learn, Linux OS, Root, Wolfram Mathematica

Extra-Curricular Activities

Mentor, NAPE mentoring program, IST   2019 - 2020