Pedro Ferreira

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SKILLS

PROGRAMMING LANGUAGES:

- Python
- C / C++
- C#
- Mathematica
- HTML5 / CSS3
- JavaScript
- LaTeX
- VBA
- SQL (limited)
- MATLAB (limited)

TECHNOLOGIES:

- PyTorch
- GIT
- Visual Studio Code
- Unity
- Inkscape
- Gimp

INTERESTS:

- Deep Learning
- Optimization
- Reinforcement Learning
- Multi-agent Systems
- Interdisciplinary Physics
- Data Visualization
- Web Scraping
- Computer Vision
- NLP
- Network Science
- Front-end Development
- Game Development

WORK EXPERIENCE

INVITED RESEARCH SCHOLAR   2019
Rensselaer Polytechnic Institute, NY, USA.
Invited by Prof. Sérgio Pequito to write the master thesis abroad as a visiting researcher at the Department of Industrial and Systems Engineering of Rensselaer Polytechnic Institute, with stipend.

PRIVATE TUTOR   2017-2018
Lisbon, PT.
Paid private tutor in Electromagnetism, Calculus and Linear Algebra.

INTERN AT COSMIC RAY LABORATORY, LIP   2016
Instituto Superior Técnico, Lisbon, PT.
Worked towards a C++ computational tool to aid signal forecasting and particle detection using scintillation and Cerenkov radiation in the SNO+ neutrino experiment, designed to look for neutrinoless double beta decay. Internship offered by LIP under Prof. Fernando Barão.

EDUCATION

MSC, APPLIED MATHEMATICS   2017-2019
Instituto Superior Técnico, Lisbon, PT.
Majored in Probability and Statistics, chose mostly AI courses. Master thesis was on the topic of the dynamic game theory of mind and was supervised by Prof. Francisco C. Santos.

BSC, ENGINEERING PHYSICS   2014-2017
Instituto Superior Técnico, Lisbon, PT.