

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

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 and Mathematics.

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.

Major: Probability and Statistics.

Concentration: Artificial Intelligence.

BSc, Engineering Physics

2014-2017

Instituto Superior Técnico, Lisbon, PT.