Pedro Ferreira

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BIO

RESEARCH INTERESTS:

- Artificial Intelligence
- Learning Theory
- Multi-agent Systems
- Theoretical Physics
- Complex Networks
- Neuroscience
- Game Theory
- Computational Models
- Interdisciplinary Sciences

PROGRAMMING LANGUAGES:

- Python
- C / C++
- C#
- Mathematica
- HTML5 / CSS3
- JavaScript
- PHP
- LaTeX
- SQL

TECHNOLOGIES:

- PyTorch
- GIT
- VSCode
- Unity Game Engine
- Inkscape
- Gimp

WORK EXPERIENCE

RESEARCHER 2019

INESC-ID, Lisbon, PT.

Paid research position at *Instituto de Engenharia de Sistemas e Computadores - Investigação e Desenvolvimento* (INESC-ID). Studied the cooperation between countries in climate change agreements using evolutionary game theory based on behavioral decision models from psychology and economic theories of value. Research was supervised by Prof. Francisco C. Santos.

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.

Tutored three college-level students, individually, 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. MSc thesis focused on understanding emergence of human coordination using behavioral decision models and theory of mind. Thesis supervised by Prof. Francisco C. Santos, in collaboration with Prof. Sérgio Pequito, from Rensselaer Polytechnic Institute, NY. Defended thesis was awarded with a grade of 19/20, finishing my degree with a grade of 17/20.

BSC, ENGINEERING PHYSICS 2014-2017

Instituto Superior Técnico, Lisbon, PT.

Provided me with unique first principles reasoning, and analysis and modeling tools which have served me greatly in other fields. I finished my BSc degree with a grade of 15/20.