MARGARIDA FERREIRA

October 2021

Education

PhD. Computer Science — 2021 – now

Carnegie Mellon University & Instituto Superior Técnico, University of Lisbon

Dual Degree PhD fellowship by CMU Portugal. Advised by Professor Inês Lynce and Professor Ruben Martins.

MSc. Computer Science and Engineering — 2018 – 2020

Instituto Superior Técnico, University of Lisbon

GPA: 17.3/20 (87%). **Specializations**: Artificial Intelligence, Algorithms and Programming. Maximum grade (20/20) on Algorithms for Computational Logic. **Master Thesis**: FOREST*: An Interactive Multi-tree Synthesizer for Regular Expressions*, advised by Professor Inês Lynce and Dr. Miguel Neves.

MSc. Informatics, Erasmus+ Exchange Year — 2018 – 2019

Technical University of Munich

GPA: 2.29 (79%). Coursework in Artificial Intelligence, Natural Language Processing, Algorithms, Game Theory, Robotics, and Parallel Programming.

BSc. Computer Science and Engineering — 2015 – 2018

Instituto Superior Técnico, University of Lisbon

GPA: 18.2/20.0 (91%). Maximum grade (20/20) on Discrete Mathematics, Object-oriented Programming and Artificial Intelligence.

Publications

Counterfeiting Congestion Control Algorithms. M. Ferreira, A. Narayan, I. Lynce, R. Martins, J. Sherry. HotNets 2021.

FOREST: An Interactive Multi-tree Synthesizer for Regular Expressions. M. Ferreira, M. Terra-Neves, M. Ventura, I. Lynce, and R. Martins. TACAS 2021.

Experience

Teaching Assistant
2020 – 2021

Instituto Superior Técnico, University of Lisbon

- Fall 20/21: Artificial Intelligence, BSc. Computer Science and Engineering.
- Spring 20/21: Introduction to Algorithms and Data Structures, BSc. Computer Science and Engineering.

Early Stage Researcher
2020 – now

INESC-ID

Research Group: Automated Reasoning and Software Reliability (ARSR). Project: Automated Programming to Revolutionize App Development (GOLEM).

Research Internship
2019 – 2020

OutSystems

Department of Engineering, division of Artificial Intelligence. Working on Master Thesis topic, under the supervision of Dr. Miguel Neves and Miguel Ventura.

Research Scholarship
2017 – 2018

Calouste Gulbenkian Foundation, New Talents in Artificial Intelligence Grant

Project: *Satisfying Cooperative Path-finding*, developed under the guidance of Professor Inês Lynce. I studied and evaluated SAT-based methods to find an optimal solution for Cooperative Path-Finding.

Scholarships

Dual Degree PhD Scholarship 2021 – 2026
CMU Portugal Program

GOLEM Scholarship 2020 – 2021
INESC-ID, CMU Portugal Program

Visiting Students Program (suspended due to COVID-19) 2020
CMU Portugal Program

Erasmus+ Scholarship at Technical University of Munich 2018 – 2019
Erasmus Program

New Talents in Artificial Intelligence Scholarship 2017 – 2018
Calouste Gulbenkian Foundation

Honors

Academic Excellence Certificates in all 3 years of BSc. and last year of MSc. Degree. 2016–2018, 2020
Instituto Superior Técnico, University of Lisbon

Other Activities

Mathematics Winter School Feb. 2021
Instituto Superior Técnico

Autumn school on Combinatorial Optimization, Constraint Programming and Machine Learning Nov. 2020
Association for Constraint Programming (ACP), French National Centre for Scientific Research (CNRS)

Teaching STEM Students Workshop Oct. 2020
Academic Development Office, Instituto Superior Técnico

Mathematics Winter School Feb. 2020
Instituto Superior Técnico

Emerging Trends in Computer Science: Pre-doctoral Research School Aug. 2018
Cornell University, Maryland University, Max Planck Institute for Software Systems

Advanced School on Data Science for Big Data Jul. 2018
Portuguese Association for Artificial Intelligence

Search Inside Yourself Formation Mar. 2018
Calouste Gulbenkian Foundation

Languages

Portuguese: ●●●●●● English: ●●●●●◐ German: ●●○○○○
French: ●●○○○○ Spanish: ●●○○○○ Japanese: ◐○○○○○

Exams: *TOEFL iBT*: 118/120, Oct. 2020. *IELTS*: 8.5/9.0, Feb. 2018.