MAFALDA FALCÃO FERREIRA, MSC

BIRTH 6/1994   **E** MAFALDAFALCAOTVF@GMAIL.COM   **T** 917167101

Recently graduated from the Integrated Master in Informatics and Computing Engineering (MIEIC) at the Faculty of Engineering of the University of Porto (FEUP), with a dissertation on applying Machine Learning to detect Malaria Parasites. Two years as a Teaching Assistant at MIEIC for the *Projeto FEUP* curricular unit. In love with technology and innovation ever since I was a little girl. Special interest in the areas of Data Science and Machine Learning, Databases and Web Development. Also passionate about mathematics, sports, traveling and photography.

Professional experience

★ 2018 —   *Researcher*, INESC TEC { http://www.inesctec.pt }, *c.f.* AE2018-0053 LIADD/INESC TEC
Grant (BI) for the study and development of methodologies for knowledge extraction from Deep Learning Architectures (DL) and Artificial Neural Networks (ANNs).
Supervisor: Prof. Rui Camacho (FEUP/DEI)

2017 — 18   *Junior Researcher*, Fraunhofer Portugal AICOS { http://www.fraunhofer.pt }
Scientist and Developer for the *EyeFundusScope* project, studying *Deep Learning* approaches to Diabetic Retinopathy classification problems[1].

2016 — 17   *Research Assistant*, Fraunhofer Portugal AICOS { http://www.fraunhofer.pt }
Developed a framework for Malaria parasites detection in microscopic images (for the *MalariaScope* project), adaptable to other classification problems.

2015 — 17   *Teaching Assistant*, Faculdade de Engenharia da Universidade do Porto { http://www.fe.up.pt }
Projeto FEUP, first year, first semester. A Curricular Unit that aims to receive and integrate new coming students, teaching them *Soft Skills* that will be useful for their academic journey and professional future.

Education

2012 — 17   M.Sc. in Informatics and Computation Engineering (MIEIC) at FEUP.
Statistical Comparison of Different Machine-Learning Approaches for Malaria Parasites Detection in Microscopic Images { http://hdl.handle.net/10216/106477 }
Final dissertation mark: 18/20. Supervisor: Prof. Luís Filipe Teixeira.

Publications

2017   M. Falcão Ferreira, L. Filipe Teixeira, and L. Rosado, *"Improving Malaria Parasites Detection in Thick Blood Images: A Statistical Approach"*, INForum 2017 - Simpósio de Informática (INFORUM-2017). Aveiro, Portugal. - Accepted as Poster.

Media Coverage

2017   Agência Lusa, *"Tecnologia criada no Porto deteta malária através de imagens obtidas com* smartphones*"*, Portugal. { https://goo.gl/TnGrKj }

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[1] Both Fraunhofer Portugal AICOS projects belong to the *Deux Ex Machina* project (DeM), in the Eyes of Internet of Things Competence Center research line (EIT-CC), *c.f.* NORTE-01-0145-FEDER-000026.

Skills

Programming

Python • Java • C/C++ • C# • SQL • UML • HTML5 • CSS • Bootstrap • XML • JQuery • JavaScript • Prolog

Others

Git • Latex • Weka • RapidMiner • Visual Studio • Eclipse

Languages

Portuguese (native) • English ☰ • Spanish ☲ • French ☱