

# MAFALDA FALCÃO FERREIRA, MSC

**BIRTH** 6/1994

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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

- 2/17 — 7/17 *Research Assistant*, Fraunhofer Portugal AICOS { <https://www.fraunhofer.pt/> }  
Developed a framework for Malaria parasites detection in microscopic images, adaptable to other classification problems.
- 2015 — 17 *Teaching Assistant*, Faculdade de Engenharia da Universidade do Porto { <https://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.

## Dissertation

- 2017 Statistical Comparison of Different Machine-Learning Approaches for Malaria Parasites Detection in Microscopic Images. *MSc dissertation*. Final mark: 18/20.

## 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. *To appear*.

## Media Coverage

- 2017 Agência Lusa, “Tecnologia criada no Porto deteta malária através de imagens obtidas com smartphones”, Portugal.

## Skills

### PROGRAMMING

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

#### OTHERS

Git • Latex • Weka • RapidMiner

#### LANGUAGES

Portuguese (native) • English ≡ • Spanish = • French ≡