

Diogo Filipe da Paz de Barros

Education

- **2014/15 – 2016/17:** Sciences and Technologies Course, Escola Secundária Braamcamp Freire, average of 17.
- **2017/18 – 2019/20:** Bachelor's degree in Informatics Engineering, Faculdade de Ciências da Universidade de Lisboa, average of 16.
Some subjects to note:
 - Programming Principles – 19
 - Object Centered Development – 19
 - Computation Theory – 16
- **2020/21 – 2022/23:** Master's in Software Engineering, Faculdade Ciências da Universidade de Lisboa.
Some subjects to note:
 - Parallel and Concurrent Programming – 18
 - Compilation Techniques – 19
 - Domain Languages – 19
- **03/2023:** Presented my MSc thesis with a final grade of 19.

Experience

- **12/2019 – today:** Member of LASIGE
Working in coordination with professors Vasco Vasconcelos and Andreia Mordido in developing a new functional programming language, **FreeST**, which aims to verify and guarantee that parties follow a specified protocol. This work includes: developing the compiler, tests, and example programs that exercise the language.
- **07/2020 – 10/2020:** Fellow at Bee2Waste Summer School, promoted by NOVA Information Management School. In this project ideas were developed by combining blockchain solutions, smart-contracts and waste management in order to modify behaviors and generate value in all of the waste management chain.
Final grade: 17.
- **01/2021:** Student volunteer at the programming languages conference, POPL.
- **04/2021 – 07/2021:** Research grant (BI) given by FCIências.ID within the scope of the SafeSessions project at LASIGE.
- **10/2021 – 01/2022:** *Programming 1* monitor at Faculdade de Ciências da Universidade de Lisboa. Lectured basic programming skills in Python to undergraduate students.
- **11/2021 – 02/2022:** Research grant for Master's students (BI-EM) at LASIGE.
- **09/2022:** Presenter at INForum Informatics Symposium 2022



- **11/2022 – 11/2023:** Research grant (BI) given by FCIências.ID within the scope of the SafeSessions project at LASIGE.
- **04/2023 – 07/2023:** Invited Assistant and responsible for *Domain Languages* at Faculdade de Ciências da Universidade de Lisboa. Lectured MSc students on how to design and implement domain-specific programming languages using Java and Xtext.

Achievements

- **09/2015:** Academic Merit Diploma, referring to Bachelor's 1st year.

Skills

- **Spoken Languages:**
 - Portuguese: Fluent/Native
 - English: Advanced
- **Programming Languages:**
 - Java
 - Haskell
 - C
 - Python