Afonso Manuel Barral Caniço

Software Engineer, PhD Candidate





EDUCATION

Doctoral Programme (PhD) in Information Science and Technology,

Iscte - University Institute of Lisbon ☑

Research work on Program Comprehension in Programming Education.

Master's of Science (MSc) in Computer Science and Engineering,

Iscte - University Institute of Lisbon ☑

- Research work on White-box Assessment for Programming Education 2.
- Grade: 18 / 20.
- Awards: ISTA Top Talent Academic Excellence Award (2022/23 and 2023/24.)

Bachelor's of Science (BSc) in Computer Science and Engineering,

Iscte - University Institute of Lisbon ☑

• Grade: 18 / 20.

• Awards: ISTA Top Talent - Academic Excellence Award (2019/20, 2020/21, and 2021/22.)

09/2022 - 07/2024

09/2024 - present

Lisbon, Portugal

Lisbon, Portugal

09/2019 - 06/2022

Lisbon, Portugal

WORK EXPERIENCE

Invited Teaching Assistant, Iscte - University Institute of Lisbon

Instructed bachelor's students in the courses of Theory of Computation and Algorithms & Data Structures. Developed a new automated assessment tool for the grading of students' programming assignments in the latter course.

09/2022 – 01/2025 Lisbon, Portugal

Professional Trainer, Iscte - University Institute of Lisbon ☑

Instructed trainees during part of "UpSkill - Digital Skills and Jobs" ☑, a professional qualification and employment programme by IEFP ☑ in partnership with Iscte.

11/2023 Lisbon, Portugal

PUBLICATIONS

A DSL for Dynamic White-Box Evaluation of Java Assignments 🗵

Authors: Afonso B. Caniço and André L. Santos.

Venue: 5th International Computer Programming Education Conference. Lisbon, Portugal. Summary: This paper describes the implementation of a Domain Specific Language (DSL) for introductory programming evaluation. We test the DSL against a set of real student assignment submissions to determine if our approach could offer additional insight for evaluation. I presented this paper at ICPEC 2024. (Recognised with the Best Paper Award.)

Authors: Afonso B. Caniço and André L. Santos.

Venue: ACM SIGPLAN International Symposium on SPLASH-E, 2023. Lisbon, Portugal. *Summary*: This paper describes the need for, development, and demonstration of the practical feasibility of a white-box software testing and feedback generation library for introductory programming assignments. I presented this paper at SPLASH-E 2023.

19/10/2023

28/06/2024

⊠ SKILLS

Object-Oriented and Functional Programming (Java, Kotlin, Python, C#), **Software Testing** (Beta Testing, Test-Driven Development, Software Evaluation), **Development Environments** (IntelliJ IDEA, Visual Studio IDE, Visual Studio Code, PyCharm), **Document Preparation** (LaTeX, Overleaf)