

Afonso Manuel Barral Caniço

Computer Engineer, Invited Teaching Assistant

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🎓 Education

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

Iscte - University Institute of Lisbon [🔗](#)

- Additional coursework in Programming Language Engineering

2022 – present
Lisbon, Portugal

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

Iscte - University Institute of Lisbon [🔗](#)

- Grade: 18 / 20
- Awards: ISTA Top Talent - Academic Merit and Excellence Award
 - 2019/2020
 - 2020/2021
 - 2021/2022

2019 – 2022
Lisbon, Portugal

💼 Professional 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 framework and the required tools for the grading of students' programming assignments in the latter course.

09/2022 – present
Lisbon, Portugal

Professional Trainer, Instituto de Emprego e Formação Profissional (IEFP) [🔗](#)

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

11/2023
Lisbon, Portugal

📜 Certificates

Introduction to Complex Analysis, Wesleyan University, through Coursera [🔗](#)

07/2020 – 09/2020

🔧 Skills

Object-Oriented and Functional Programming

Java, C#, Kotlin, Python, Scala

Quality Assurance and Software Testing

Beta testing, Test-driven Development, Software evaluation

Development Environments

IntelliJ IDEA, Visual Studio IDE, Visual Studio Code, Pycharm

Academic Document Preparation

LaTeX

Web Development

HTML, CSS

Database Management

Relational databases (SQL)

📖 Publications

Witter: A Library for White-Box Testing of Introductory Programming Algorithms,

Association for Computing Machinery (ACM) [🔗](#)

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. Published and presented at the ACM SIGPLAN International Symposium on SPLASH-E.

19/10/2023