

Paulo Santos

Paulo Alexandre Canelas dos Santos

Masters Student

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About me

I'm currently a Doctoral student with a special interest in programming languages, program synthesis and evolutionary algorithms. I consider myself as a very persistent and perfectionist person, always ready to engage in new ideas and projects. Outside of 'geek world', I'm an easy-going person who likes traveling and exploring new places.

Education

- 2020–2024 **PhD in Informatics**, *Faculty of Sciences*, University of Lisbon.
(expected)
- 2018–2020 **MSc. Software Engineering**, *Faculty of Sciences*, University of Lisbon.
Dissertation: Towards the Conceptualization of Refinement Typed Genetic Programming
- 2015–2018 **BSc. Informatics Engineering**, *Faculty of Sciences*, University of Lisbon.

Academic Enrollment & Distinctions

- February **Invited Teaching Assistant.**
 - 2021 Teaching and Scientific Divulcation: Course in the PhD program which requires the student to teach theoretical-practical classes: I will be responsible for the Object Oriented Development course (2nd Year).
- September **EDP University Challenge - Portugal**, Top15.
 - 2020 Achieved the top 15 out of 1152 teams (4138 students) in the annual competition of EDP University Challenge with the project ecoServer: a system to optimize the energy impact of servers in data centers.
- February **LASIGE Workshop'20**, Best Poster - 1st.
 - 2020 Poster chosen by the LASIGE research community as the best one from the MSc. and PhD students.
- November **COST ACTION CA15140 - ImAppNIO.**
 - 2019 Improving Applicability of Nature-Inspired Optimisation by Joining Theory and Practice Training School.

Publications

- Submitted **Type-safe Synthesis for Genetic Probabilistic Programming**, LAFI 2021.
- 2020 **Extending Java with Refinements**, PSSV-2020, Student Paper.
- 2020 **The Usability Argument for Refinement Typed Genetic Programming**, *Paper*, PPSN'20.
- 2020 **Refined typed genetic programming as a user interface for genetic programming**, *Poster*, GECCO 2020.
- 2019 **Dependent and Refined-Typed Genetic Programming**, *Poster*, INForum 2019.

Work Experience

- Accepted **Visiting Student**, Institute for Software Research, Carnegie Mellon University.
 - 2020 Accepted in the CMU|Portugal program. Visiting postponed due to coronavirus.
- May 2019 - **Student Researcher**, *LASIGE*, Faculty of Sciences, University of Lisbon.
- Currently Engaged in creating a new functional programming language allowing the programmer to synthesize refined-typed programs with genetic programming.

Skills

Languages Ordered by proficiency : Python, Java EE, Haskell, C, SQL
Database MySQL, PLSQL, SQL*Plus
Dev. Tools Eclipse, Visual Studio Code, Maven, Git