

JOÃO GONÇALVES

PHD STUDENT & JUNIOR RESEARCHER

PROFILE

I am a CS PhD student at IST and a junior researcher at INESC-ID. My research interests lie in the field of fault tolerance, fault detection, bug finding and reproducibility. Previously, I have researched scalable group membership, distributed storage protocols, and latency-hiding techniques. Currently, my focus is on Persistent Memory, particularly crash-consistency, concurrency, and bug detection.

PERSONAL INFORMATION

+351 912559835 Lisbon, Portugal
joao.tiago.goncalves@tecnico.ulisboa.pt
www.dpss.inesc-id.pt/~joaogoncalves

WORK EXPERIENCE

- 2021 - Today **Junior Researcher**
INESC-ID, Lisbon, Portugal
- Summer 2024 **PhD Research Intern**
Roblox, CA, USA
Designed a flexible architecture for latency-hiding techniques in distributed experiences.
- 2019 - 2023 **Teaching Assistant**
Instituto Superior Técnico, University of Lisbon, Lisbon, Portugal
Foundations of Programming - Fall 2022/23
Highly Dependable Systems - Spring 2020/21
Operating Systems - Fall 2020/21, Fall 2019/20
Software Engineering - Spring 2019/20

PUBLICATIONS

- Mumak: Efficient and Black-Box Bug Detection for Persistent Memory**
[João Gonçalves](#), Miguel Matos, Rodrigo Rodrigues
In Proceedings of the Eighteenth European Conference on Computer Systems (EuroSys '23), 2023.
- SconeKV: a Scalable, Strongly Consistent Key-Value Store**
[João Gonçalves](#), Miguel Matos, Rodrigo Rodrigues
Transactions on Parallel and Distributed Systems (TPDS), 2022.

EDUCATION

- 2021 - Today **Enrolled in PhD in Computer Science and Engineering**
Instituto Superior Técnico, University of Lisbon, Lisbon, Portugal
- 2018 - 2021 **MSc in Information Systems and Computer Engineering**
Instituto Superior Técnico, University of Lisbon, Lisbon, Portugal
Specialization in Distributed Systems and Cyber-Security. Final grade: 18/20
- 2015 - 2018 **Bachelor's Degree in Information Systems and Computer Engineering**
Instituto Superior Técnico, University of Lisbon, Lisbon, Portugal.

AWARDS AND SCHOLARSHIPS

- | | |
|---|--|
| PhD Scholarship
Fundação para a Ciência e Tecnologia 2022-Present | Academic Excellence Diploma
Instituto Superior Técnico 2018 |
| Excellence Teaching Award
Instituto Superior Técnico 2022 | Academic Merit Diploma
Instituto Superior Técnico 2020, 2019, 2017, 2016 |

OTHER SKILLS

- | | |
|--|---|
| Programming
C/C++, Python, Intel PIN, Docker, bash | Languages
Portuguese (Native), English (Proficient), German (Basic) |
|--|---|