# MAFALDA FERREIRA

### PHD STUDENT & JUNIOR RESEARCHER



### PROFILE -

I am a PhD student in Computer Science and Engineering at IST and a junior researcher at INESC-ID, as part of the SysSec team.

I am interested in Web security and privacy. Specifically, my research focus on developing systems based on static analysis techniques to identify security vulnerabilities and privacy violations in JavaScript code.

### PERSONAL INFORMATION



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# WORK EXPERIENCE

2021 - Today **Junior Researcher** 

INESC-ID, Lisbon, Portugal

2019 - 2023 Teaching Assistant

Instituto Superior Técnico, University of Lisbon, Lisbon, Portugal

- Software Engineering Spring 2023/23, Spring 2021/22, Spring 2020/21, Spring 2019/20
- Operating Systems Fall 2020/21, Fall 2019/20

### **PUBLICATIONS**

# RuleKeeper: GDPR-Aware Personal Data Compliance for Web Frameworks

Mafalda Ferreira, Tiago Brito, José Fragoso Santos and Nuno Santos

In Proceedings of the 44th IEEE Symposium on Security and Privacy (S&P). May, 2023.

DOI: 10.1109/SP46215.2023.00058

# Study of JavaScript Static Analysis Tools for Vulnerability Detection in Node.js Packages.

Tiago Brito, Mafalda Ferreira, Miguel Monteiro, Pedro Lopes, Miguel Barros, José Fragoso Santos, Nuno Santos.

IEEE Transactions on Reliability, 2023.

DOI: 10.1109/TR.2023.3286301

# Poster: A Systems Approach to GDPR Compliance-by-Design in Web Development Stacks

Mafalda Ferreira, Tiago Brito, José Fragoso Santos and Nuno Santos

In Proceedings of the 2022 ACM SIGSAC Conference on Computer and Communications Security (CCS), 2022.

DOI: 10.1145/3548606.3563521

### 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 Cyber-Security. Final grade: 18/20

#### 2014 - 2018 Bachelor's degree in Information Systems and Computer Engineering

Instituto Superior Técnico, University of Lisbon, Lisbon, Portugal

### AWARDS AND SCHOLARSHIPS

### **Excellence Teaching Award**

Instituto Superior Técnico | 2022, 2023

### **Merit Diploma**

Instituto Superior Técnico | 2020, 2019, 2015

### PhD Scholarship

Fundação para a Ciência e Tecnologia | 2022-Present

### **Merit Scholarship**

Xpand IT | 2017-2019

### OTHER SKILLS

### **Programming**

JavaScript/Node.js, Cypher/Neo4j, Python

### Languages

Portuguese (native speaker), English (Proficient)