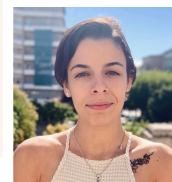# MAFALDA *FERREIRA*

PHD STUDENT & JUNIOR RESEARCHER

PERSONAL INFORMATION

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🏠 Lisbon, Portugal

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CURRENT RESEARCH

GDPR compliance for web applications: detection and prevention of GDPR violations

AWARDS & SCHOLARSHIPS

EXCELLENCE TEACHING AWARD
Instituto Superior Técnico
|| 2021-2022

MERIT DIPLOMA
Instituto Superior Técnico
|| 2019-2020, 2018-2019, 2014-2015

PHD SCHOLARSHIP
Fundação para a Ciência e Tecnologia
|| 2022-Present

MERIT SCHOLARSHIP
Xpand IT
|| 2017-2019

SKILLS

EXPERIENCED IN:
JavaScript, Node.js, MongoDB, Rego and Open Policy Agent, and git.

COMFORTABLE WITH:
React.js, Java, C, Python, SQL and Unix environments.

WORK EXPERIENCE

JUNIOR RESEARCHER
INESC-ID || Lisbon || 2021-Present

TEACHING ASSISTANT
Instituto Superior Técnico || Lisbon || 2019-Present
- *Software Engineering, Spring 2021/22*
- *Software Engineering, Spring 2020/21*
- *Operating Systems, Fall 2020/21*
- *Software Engineering, Spring 2019/20*
- *Operating Systems, Fall 2019/20*

SOFTWARE DEVELOPMENT INTERN
Xpand IT || Lisbon || Summer 2018

PUBLICATIONS

CONFERENCES

RuleKeeper: GDPR-Aware Personal Data Compliance for Web Frameworks
Mafalda Ferreira, Tiago Brito, José Fragoso Santos and Nuno Santos
In *Proceedings of the IEEE Symposium on Security and Privacy* (S&P), *To appear* 2023

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

EDUCATION

ENROLLED IN PHD IN COMPUTER SCIENCE AND ENGINEERING
Instituto Superior Técnico || Lisbon || 2021-Present

MSC IN INFORMATION SYSTEMS AND COMPUTER ENGINEERING
Instituto Superior Técnico || Lisbon || 2018-2021
Specialization in Cyber-Security. Final grade: 18/20
Dissertation: *Building GDPR-Compliant Web Applications with RuleKeeper* (grade: 19/20)

BACHELOR'S DEGREE IN INFORMATION SYSTEMS AND COMPUTER ENGINEERING
Instituto Superior Técnico || Oeiras || 2014-2018
Final grade: 16/20