

SOFIA REIS


PERSONAL INFORMATION

Born in Portugal, 7 August 1994

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social media  ·  · 

BIO

PhD Student in Software Engineering and Security at [Instituto Superior Técnico, University of Lisbon](#) and researcher at [INESC-ID](#). Studying automated techniques to detect security software vulnerabilities. I also perform research in software maintainability, software fault localization and slicing. Active member of the QUASAR research group ([TQRG](#)).

EDUCATION

<i>PhD in Computer Science and Engineering</i>	2018-2022	Instituto Superior Técnico, University of Lisbon
	GPA: 19.4/20 · Waiting for PhD proposal defense	
	Thesis: <i>Understanding and Improving Security-oriented Static Analysis Techniques</i>	Advisor: Prof. Rui ABREU
<i>ERASMUS+ PROGRAMME</i>	2016-2017	Leiden Institute of Advanced Computer Science
	GPA: 7.5/10 · <i>Computer Science and Advanced Data Analytics</i>	
	Data Mining, Social Network Analysis, Big Data and Evolutionary Algorithms	Reference: Prof. Rosaldo ROSSETTI · rossetti@fe.up.pt
<i>BSc+MSc (Integrated Master)</i>	2012-2017	Faculty of Engineering of the University of Porto
	GPA: 15/20 · <i>Informatics and Computing Engineering (A3ES accreditation)</i>	
	Thesis: Assessing software vulnerabilities using Naturally Occurring Defects	Mark: 19/20 - top 5% of the best thesis in the class of 2017
	Advisor: Prof. Rui ABREU	

WORK EXPERIENCE

<i>INESC-ID</i>	2018-Present	Junior Researcher, INESC-ID — Lisbon
	Analysis of the entire corpus of documents published in the last 30 years in the Portuguese law search engine. Funded by the INCM under the ref. "353/2017 - Serviço de pesquisa em linha para o Diário da República eletrónico (DRE)"	
	Reference: José BORBINHA · jlb@tecnico.ulisboa.pt	
<i>KPMG PT</i>	2017-2018	RPA Developer, KPMG PT — Porto
	Robotic Process Automation Developer. Responsible for designing and delivering automations in Automation Anywhere for VAT processing in the pharmaceutical sector. Reference: Lara CONCEIÇÃO and Daniel PIRES	
	Certified in Automation Anywhere . License: AAADVC-Fv5QqG1J1D	

TEACHING ASSISTANT

Conference	2019	Future of Computing
	1-day training on the Fundamentals of accelerated computing with CUDA Python . Certified by NVIDIA . Reference: Cristiana Dinea · cdinea@nvidia.com	
University	Spring 2019	Software Engineering
	Full 6-month course. Instituto Superior Técnico, University of Lisbon, Alameda. Reference: Alberto Abad · alberto.abad@tecnico.ulisboa.pt	
	Fall 2018	Foundations of Programming
	Full 6-month course. Instituto Superior Técnico, University of Lisbon, TagusPark. Reference: Rui Abreu · rui@computer.org	

PUBLICATIONS

- 2019 [1] Sofia Reis, Rui Abreu and Marcelo D'Amorim. 2019. **Demystifying the Combination of Dynamic Slicing and Spectrum-based Fault Localization**. International Joint Conference on Artificial Intelligence (IJCAI) · *Conference Paper*
- 2018 [2] Sofia Reis. 2018. **Leveraging Known Vulnerabilities to Modernize Static Analysis Tools**. PhD OpenDays 2018. Lisbon, Portugal · *Poster*
- 2017 [3] Sofia Reis and Rui Abreu. 2017. **A Database of Existing Vulnerabilities to Enable Controlled Testing Studies**. International Journal of Secure Software Engineering (IJSSE) 8 (3): 1-23 · *Journal Paper*
- [4] Sofia Reis and Rui Abreu. 2017. **SECBENCH: A Database of Real Security Vulnerabilities**. Secure Software Engineering in DevOps and Agile Development (SecSE), co-located with ESORICS, Oslo, Noruega · *Workshop Paper*
- [5] Sofia Reis and Rui Abreu. 2017. **Using Github to Create a Dataset of Natural Occurring Vulnerabilities**. International Workshop on Principles of Diagnosis (DX), Bréscia, Italy · *Abstract and Poster*

GRANTS, HONORS AND AWARDS

- 2019 **PhD Scholarship** by FCT, cf. SFRH/BD/143319/2019 · 4 years
- 2018 **Scholarship** funded by FCT/MCTES through national funds (PIDDAC) under the project UID/CEC/50021/2013 to perform a Systematic Survey on Platforms for Continuous Inspection of Code Quality · 6 months

RELEVANT TRAINING

- 2019 2-days Facebook Testing and Verification Symposium (FaceTAV), Facebook London, UK, November 2019 - *accepted*
- 2019 1-week **Future of Computing Conference**, Portugal, July 2019
- 2019 4-days **VMCAI** Summer School, Portugal, January 2019
- 2018 2-days Facebook Testing and Verification Symposium (FaceTAV), Facebook London, UK, November 2018 (invitation only)

OTHER INFORMATION

<i>Communication Skills</i>	2018 · Poster at PhD OpenDays 2018, Lisbon, Portugal
	2017 · Poster at the International Workshop on Principles of Diagnosis (DX), Br�scia, Italy
<i>Volunteer</i>	2019 · Future of Computing Conference (Porto, Portugal) · 1-week
	2019 · ACM SIGPLAN Symposium on Principles of Programming Languages (POPL'19, Lisbon, Portugal) · 1-week
	2018 · International Conference on Software Quality, Reliability and Security (QRS'18, Lisbon, Portugal) · 3-days
	2017 · Talk a Bit (Porto, Portugal) — organized by FEUP · 1-day
<i>Committee</i>	2019 · ICST2020 (Porto, Portugal): Sponsorship and social media · 1-week
	2019 · Commit Porto (Porto, Portugal) — organized by AlumniEI-FEUP · 1-day
	2018 · Commit Porto (Porto, Portugal) — organized by AlumniEI-FEUP · 1-day
<i>Organization</i>	2019 · Vice-President of AlumniEI-FEUP · 4-years
<i>Languages</i>	PORTUGUESE · Mothertongue
	ENGLISH · Intermediate (fluent)
	FRENCH · Basic
	SPANISH · Basic

October 29, 2019