# Juan Manuel Copia

PhD Student

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#### EMPLOYMENT HISTORY

SINCE 2021	Research Assistant
	IMDEA Software Institute, Madrid, Spain.
2019 - 2020	Research Scholarship
	Department of Computer Science, University of Río Cuarto, Argentina.
Summer 2019	Summer Internship
	McAfee, Argentina.
2018 - 2019	Student Teaching Assistant
	Department of Computer Science, University of Río Cuarto, Argentina.

## **EDUCATION**

SINCE 2021	Ph.D. in Computer Science
	Universidad Politécnica de Madrid, Madrid, Spain.
2015 - 2020	Undergraduate degree in Computer Science (5-year + thesis)
	Department of Computer Science, University of Río Cuarto, Argentina. GPA: 9.02.
2015 - 2018	Undergraduate degree in Computer Science (3-year + final project)
	Department of Computer Science, University of Río Cuarto, Argentina. GPA: 8.81.

## **PUBLICATIONS**

October 2023	Precise Lazy Initialization for Programs with Complex Heap Inputs
	J. M. Copia, F. Molina, N. Aguirre, M. Frias, A. Gorla, P. Ponzio.
	IEEE International Symposium on Software Reliability Engineering,
	ISSRE 2023, Florence, Italy. (Recently accepted paper)
October $2022$	LISSA: Lazy Initialization with Specialized Solver Aid
	J. M. Copia, P. Ponzio, N. Aguirre, A. Gorla, M. Frias.
	IEEE/ACM International Conference on Automated Software Engineering,
	ASE 2022, Oakland Center, Michigan, USA.
May 2022	Use of Test Doubles in Android Testing: An In-Depth Investigation
	M. Fazzini, C. Choi, J. M. Copia, G. Lee, Y. Kakehi, A. Gorla, A. Orso.
	ACM/IEEE International Conference on Software Engineering, ICSE 2022,
	Pittsburgh, USA.

#### OPEN-SOURCE SOFTWARE ARTIFACTS

LISSA AND PLI	Symbolic execution techniques for programs with complex heap.
SymSolve	A solver for structural constraints of heap-allocated objects.
PySEAT	A symbolic execution engine for python programs.

# **OTHERS**

**Research Topics:** My main research interests are related to software testing and program analysis. Particularly, my latest research is focused on symbolic execution.

Proficient in Java and Python

Talks: Presented at IMDEA SOFTWARE S3 SEMINAR SERIES, FACAS 2022 and ASE 2022

Spoken Languages: English, Spanish and French.

Cultural Experiences: 5 month academic exchange in Chile, 4 month cultural inmersion in France.