

Andrés Sánchez Marín

15 June 1997 Madrid, Spain
andres.sanchez@epfl.ch andsanmar.github.io

PROFESSIONAL EXPERIENCE

HexHive group, EPFL

Research Assistant

Lausanne, Switzerland

Sep 2019 – present

Massachusetts Institute of Technology

Visiting Student

Cambridge, United States

Jun 2019 – Aug 2019

IMDEA Software Institute

Research Internship

Madrid, Spain

Sep 2018 – Jun 2019

Reasoning about speculative execution attacks and existing proposals for counter-measures. Detecting speculative information flows in large code-bases

Distributed Systems Laboratory at UPM

Internship

Madrid, Spain

Sep 2017 – Dec 2017

Designing and implementing the integration between a Elastic Complex Event Processing for Static and Streaming Data and a NoSQL distributed database

Cisco, NBA

NBA NetAcad Dream Team member

Madrid, Spain

Oct 2016

On the NBA Global Games (Madrid). Learning how to do the network infrastructure for the event. Also, helping installing it

EDUCATION

École Polytechnique Fédérale de Lausanne

Master of Science in Computer Science

Lausanne, Switzerland

2019 – 2021

Universidad Politécnica de Madrid

Bachelor of Science in Mathematics and Computing

Madrid, Spain

2015 – 2019

Member of ACM UPM chapter

AREAS OF INTEREST

My main research interest is the development of reliable and optimized software, focusing on the correct systems implementations and the methods to produce efficient and secure code. Result of the intersection between the Computer Systems, Security, Programming Languages & Paradigms (specially functional and low level ones), Software Optimizations, Algorithms and Data Structures, Hardware Architecture, Formal Verification and Theoretical Foundations of Computer Science.

SKILLS

LANGUAGES	Spanish (mother tongue) English (fluent) – 90 TOEFL iBT
PROGRAMMING	Rust, Prolog, Linux, C, Git Assembly, \LaTeX , Haskell, Python
ACHIEVEMENTS	10 honors in various subjects on Bachelor's degree
OTHERS	CCNA 1 & 2 Free Time Monitor Certification
VOLUNTEER EXPERIENCE	Sumac Wasi "Santo Tomás de Aquino" enhancement project during 2018 summer as a collaborator, also doing recreational and learning activities with a group of 40 kids on a marginal Arequipa (Perú) area.

CONFERENCE PUBLICATIONS

- M. Guarnieri, B. Koepf, J. F. Morales, J. Reineke, and A. Sánchez. SPECTECTOR: Principled detection of speculative information flows. In *Proceedings of the 41st IEEE Symposium on Security and Privacy*. IEEE, 2020