

CRISTIAN ASSAIANTE

Curriculum vitae

(last updated: January, 2024)

EMPLOYMENT

NOV. 2021 - PRESENT	PhD student, ENGINEERING IN COMPUTER SCIENCE <i>Sapienza University of Rome, Italy</i> Advisor: Prof. Leonardo Querzoni
JAN. 2020 - PRESENT	Organizer and Training Coordinator, CYBERCHALLENGE.IT <i>Sapienza University of Rome, Italy</i>
MAR. 2021 - MAY 2021	Training Coordinator and Challenges Author, OLICYBER.IT

EDUCATION

SEP. 2019 - OCT. 2021	M.Sc., ENGINEERING IN COMPUTER SCIENCE (in English) <i>Sapienza University of Rome, Italy</i> Final grade: 110/110 with honors (<i>summa cum laude</i>) Thesis: A Study of the Completeness of Debug Symbols in Optimizing Compilers
SEP. 2016 - JUL. 2019	B.Sc., COMPUTER AND CONTROL ENGINEERING <i>Sapienza University of Rome, Italy</i> Final grade: 110/110 with honors (<i>summa cum laude</i>) Thesis: A Micro-Architectural Red Pill

RESEARCH INTERESTS

My research interests spans over several aspects of software and system security with the main focus being software testing. So far, my works are about bug finding in compiler infrastructures and optimizations pressure over software debuggability. I am passionate about compilers optimizations, program analysis techniques applied to malware analysis, operating systems and micro-architectural attacks.

TEACHING

2023	Adjunct Professor for <i>Sistemi di Calcolo</i> (3CFU module) course (Spring 2023), Sapienza University of Rome.
2022	Teaching Assistant for <i>Sistemi di Calcolo</i> course (Spring 2022), Sapienza University of Rome.

SERVICE

Conferences and Workshops

2022	Shadow Program Committee member for EuroSys'23 - 18 th European Conference on Computer Systems. Artifact Evaluation Committee member for EuroSys'23 - 18 th European Conference on Computer Systems.
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Journals

- 2023 Reviewer for [Computers & Security](#) (COSE).
Reviewer for [SoftwareX](#) (SOFTX).

PUBLICATIONS

Conferences and Workshops

- 2023 **C. Assaiante**, D. C. D'Elia, G. A. Di Luna, L. Querzoni. *Where Did My Variable Go? Poking Holes in Incomplete Debug Information*. To appear in Proceedings of the 28th ACM International Conference on Architectural Support for Programming Languages and Operating Systems (**ASPLOS '23**). [CORE21 RANK: A*.]

HONORS AND AWARDS

- 2023 **winner** with mhackeroni, HACK-A-SAT 4 *CTF Finals*, Las Vegas, USA
2022 **winner**, BLACKHAT ASIA cybersecurity conference *Student Scholarship*, Singapore
2021 **winner**, 42ND IEEE SYMPOSIUM ON SECURITY AND PRIVACY conference *Student Travel Grant Award*, Online
awarded, M.Sc. in Engineering in Computer Science *Honors Program*, Rome, Italy
1st place with TheRomanXploit, CSAW '21 *Embedded Cybersecurity Challenge Finals*, Online
2020 **1st prize**, 15TH CLUSIT thesis prize to *A Micro-Architectural Red Pill*, Online
winner, BLACKHAT EU cybersecurity conference *Student Scholarship*, Online
1st place with TheRomanXploit, CSAW '20 *Embedded Cybersecurity Challenge Finals*, Online
2019 **5th place** with mhackeroni, DEFCON 27 *CTF Finals*, Las Vegas, USA
awarded, B.Sc. in Computer and Control Engineering *Honors Program*, Rome, Italy
1st place with TheRomanXploit, CSAW '19 *Embedded Cybersecurity Challenge Finals*, Valence, France

FUNDINGS

- 2022 Ph.D. starting grant for the project: Practical Control-Flow Integrity for Software Security

LANGUAGES

- ENGLISH: Fluent (Certified: B2)
ITALIAN: Native