

Doria Samuele

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Personal Profile

Samuele Doria is a PhD student at the University of Padua. He holds a Master's Degree in Cybersecurity and a Bachelor's in Computer Engineering. His research focuses on Android Security, specializing in developing solutions to enhance mobile devices security.

Work Experience

University of Padua

PhD Student

Padua, Italy

Nov 2023 - Current

- Research on Software Security, with a focus on Android Security.

École Polytechnique Fédérale de Lausanne

Research Intern at HexHive

Lausanne, Switzerland

May 2023 - Aug 2023

- Developed a static analysis tool to create fuzzing harnesses for Android native libraries.

University of Calabria

Peer-Tutor for CyberChallenge.it

Cosenza, Italy

Feb 2021 - July 2021

- Peer-tutoring for the CyberChallenge.it initiative's participants. I guided them in their first experiences playing CTFs, more specifically in challenges involving Reverse Engineering and Binary Exploitation (pwn).

Education

University of Padua

MSc in CyberSecurity

Padua, Italy

Sept 2021 - Sept 2023

- Graduation score: 110/110 cum laude
- **Thesis:** Control-Flow Graph Based Path Reconstruction in Android Applications

University of Calabria

Computer Engineering

Cosenza, Italy

Oct 2018 - Sept 2021

- Graduation score: 107/110
- **Thesis:** Binary Exploitation on x86-64 and ARM

University of Calabria

CyberChallenge.it Participant

Cosenza, Italy

Feb 2020 - June 2020

- Selected among 20 participants to attend lectures and trainings on CyberSecurity and CTF challenges.

Publications

R+R: Matrioska: A User-Centric Defense Against Virtualization-Based Repackaging Malware on Android

Honolulu, USA

Annual Computer Security Applications Conference (ACSAC)

Dec 2024

- Paper on the dynamic detection of Virtualization-Based Repackaging Malware on Android devices.
- **Authors:** Simone Zerbin, Samuele Doria, Primal Wijesekera, Serge Egelman, Eleonora Losiouk

Skills

Programming Python, C/C++, Java, HTML/CSS, JavaScript, SQL.

Miscellaneous Linux, Shell (Bash/Zsh), LaTeX (Overleaf/R Markdown), Git.

Soft Skills Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

Languages

Italian Native proficiency

English C2 level: proficient user