

Simone Aonzo

Résumé (Updated to: 2022/09/17)

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Assistant Professor — Information Security

Education

2017–2020 **Ph.D. in Computer Science and Systems Engineering**, *DIBRIS*, University of Genoa (Italy)

2010–2015 **Master in Computer Science**, *University of Genoa (Italy)*, 110/110 *cum laude*

Ph.D. Thesis

Title “*Novel Attacks and Defenses in the Userland of Android*”

Advisor Prof. Alessio Merlo

Master Thesis

Title “*A new permission handling in Android*” [1]

Supervisor Prof. Giovanni Lagorio

Work Experience

2022–now **Assistant Professor**, *EURECOM*, Sophia Antipolis/France

2021–2022 **Research Engineer**, *EURECOM*, Sophia Antipolis/France

2020–2021 **Postdoctoral Researcher**, *EURECOM*, Sophia Antipolis/France

2015–2017 **Android Pentester and Developer**, *Talos srls*, Genoa/Italy

Banking app penetration tester. Malware analyst. Back-end developer of Approver, a commercial analysis service for Android apps based on a microservice architecture.

2007–2010 **Network and Computer Systems Administrator**, *Teknoos*, Savona/Italy

Maintenance and configuration of IT infrastructure for small/medium business companies.

Teaching

2017–2020 **Android Reverse Engineering**, for *Talos srls* in private companies

2018–2019 **Mobile Security**, *Master in Cybersecurity*, University of Genoa (Italy)

2017–2019 **Android Programming**, *B.Sc. Computer Engineering*, University of Genoa (Italy)

2017–2018 **Operating Systems**, *B.Sc. Computer Engineering*, University of Genoa (Italy)

Natural Languages

Italian Native speaker
English CEFR C1

Certifications

2019-03-05 GIAC Reverse Engineering Malware

Publications

- [1] S. Aonzo, G. Lagorio, and A. Merlo, "Rmperm: A tool for android permissions removal.," in *SECRYPT*, pp. 319–326, 2017.
- [2] S. Aonzo, A. Merlo, M. Migliardi, L. Oneto, and F. Palmieri, "Low-resource footprint, data-driven malware detection on android," *IEEE Transactions on Sustainable Computing*, 2017.
- [3] S. Aonzo, A. Merlo, G. Tavella, and Y. Fratantonio, "Phishing Attacks on Modern Android," in *Proceedings of the ACM Conference on Computer and Communications Security (CCS)*, (Toronto, Canada), October 2018.
- [4] A. Mantovani, S. Aonzo, X. Ugarte-Pedrero, A. Merlo, and D. Balzarotti, "Prevalence and impact of low-entropy packing schemes in the malware ecosystem," in *Network and Distributed System Security (NDSS) Symposium*, February 2020.
- [5] D. Caputo, L. Verderame, S. Aonzo, and A. Merlo, "Droids in disarray: Detecting frame confusion in hybrid android apps," in *IFIP Annual Conference on Data and Applications Security and Privacy*, pp. 121–139, Springer, 2019.
- [6] S. Aonzo, G. C. Georgiu, L. Verderame, and A. Merlo, "Obfuscapk: An open-source black-box obfuscation tool for android apps," *SoftwareX*, vol. 11, p. 100403, 2020.
- [7] A. Possemato, S. Aonzo, D. Balzarotti, and Y. Fratantonio, "Trust, But Verify: A Longitudinal Analysis Of Android OEM Compliance and Customization," in *2021 IEEE Symposium on Security and Privacy (SP)*, IEEE, 2021.
- [8] A. Mantovani, S. Aonzo, Y. Fratantonio, and D. Balzarotti, "RE-Mind: a First Look Inside the Mind of a Reverse Engineer," in *31st USENIX Security Symposium (USENIX Security 22)*, USENIX, 2022.

Research Topics by Keyword

- Program Analysis [1, 2, 5, 6, 4, 7]
- Machine Learning [2, 4]
- Reverse Engineering [1, 5, 6, 4, 7, 8]
- Phishing [3]