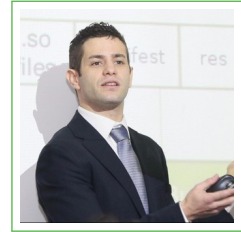


Simone Aonzo

Résumé (Updated to: 2024/09/04)

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— Assistant Professor of Cybersecurity —

Education

- 2017–2020 **Ph.D. in Computer Science and Systems Engineering**, *University of Genoa*.
- 2010–2015 **Master in Computer Science**, *University of Genoa (Italy)*, 110/110 cum laude.

Thesis

- Ph.D. “*Novel Attacks and Defenses in the Userland of Android*” (2020)
- Master “*A new permission handling in Android*” [1] (2015)

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.
- 2020 **Malware Analyst**, *NDA*.
- 2015–2017 **Android Pentester**, *Talos srls*, Genoa/Italy.
- 2007–2010 **Network and Computer Systems Administrator**, *Teknoos*, Savona/Italy.

Teaching

- 2023–now **Introduction to Cybersecurity**, for *Eurecom (France)*.
- 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)*.

Services

- 2020–now International Symposium on Research in Attacks, Intrusions and Defenses (RAID)
- 2023–now USENIX Security Symposium

Third-Party Funded Projects

- 2022–now DefMal, PEPR Cyber Security Research Project on Malware Analysis
- 2023–now CKRISP, ANR Research Project on Artificial Intelligence

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] 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.
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- [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.
- [9] A. Ruggia, A. Possemato, S. Dambra, A. Merlo, S. Aonzo, and D. Balzarotti, "The dark side of native code on android," *Authorea Preprints*, 2023.
- [10] S. Aonzo, Y. Han, A. Mantovani, and D. Balzarotti, "Humans vs. Machines in Malware Classification," in *32st USENIX Security Symposium (USENIX Security 23)*, USENIX, 2023.
- [11] A. Ruggia, A. Possemato, A. Merlo, D. Nisi, and S. Aonzo, "Android, notify me when it is time to go phishing," in *EUROS&P 2023, 8th IEEE European Symposium on Security and Privacy*, 2023.
- [12] S. Dambra, Y. Han, S. Aonzo, P. Kotzias, A. Vitale, J. Caballero, D. Balzarotti, and L. Bilge, "Decoding the secrets of machine learning in malware classification: A deep dive into datasets, feature extraction, and model performance," in *Proceedings of the 2023 ACM SIGSAC Conference on Computer and Communications Security*, pp. 60–74, 2023.
- [13] A. Ruggia, D. Nisi, S. Dambra, A. Merlo, D. Balzarotti, and S. Aonzo, "Unmasking the veiled: A comprehensive analysis of android evasive malware," in *Proceedings*

of the 19th ACM Asia Conference on Computer and Communications Security, pp. 383–398, 2024.

- [14] I. Tsingenopoulos, J. Cortellazzi, B. Bořanský, S. Aonzo, D. Preuveneers, W. Joosen, F. Pierazzi, and L. Cavallaro, “How to train your antivirus: RL-based hardening through the problem space,” in *Proc. of the International Symposium on Research in Attacks, Intrusions and Defenses (RAID)*, 2024.

Research Topics by Keyword

- Artificial Intelligence [2, 5, 9, 10, 12, 14]
- Human subject research [8, 10]
- Malware Analysis [2, 5, 9, 10, 13]
- Phishing [3, 11]
- Reverse Engineering [1, 4, 6, 7, 8]