Mohamad Mansouri, Ph.D.

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Employment History

2020 – 2023	**Research Engineer.** Therisis, Thales SIX GTS, France.
2019 (6 months)	**Final Year Internship.** Stevens Institution of Technology, United States of America.
2018 (2 months)	**Summer Internship.** Digital Security Department, EURECOM, France.

Education

2020 – 2023	**Ph.D., University of Sorbonne** Ecole Doctorale Informatique, Télécommunications et Electronique. Thesis title: *Securing the IoT.*
2017 – 2019	**Engineering Diploma, Telecom ParisTech (EURECOM)** Digital Security. Thesis title: *Disabling Unwanted Program Functionalities for Reducing Attack Surface.*
2013 – 2017	**Engineering Diploma, Lebanese University** Telecommunication and Electronics.

Skills

Cryptography	Theoretical schemes and proofs, Implementation (C++ and Python)
Network Security	Anomaly Detection (AI Based), Remote Attestation
Binary Analysis	Static Analysis (IDA Pro, Radare2), Dynamic Analysis (Intel Pin Tool)
Programming	C++, C, Python, Bash
Miscellaneous	Virtualization (Docker, Kubernetes), Github, Linux administration
Languages	English (Professional), French (Intermediate), Arabic (Native)

Awards and Achievements

2022	**First Place Winners**, DOCA Hackathon by Nvidia.
2019	**Best Paper Award**, at the 12th International Symposium on Foundations and Practice of Security.

Research Publications

1. **Mansouri**, **M.**, Önen, M., Ben Jaballah, W., & Conti, M. (2023). Sok: Secure aggregation based on cryptographic scheme for federated learning. In *Under revision*.
2. **Mansouri**, **M.**, Portokalidis, G., & Xu, J. (2023). Disabling unwanted functionalities in binary programs. In *Under revision*.
3. **Mansouri**, **M.**, Önen, M., & Ben Jaballah, W. (2022). Learning from failures: Secure and fault-tolerant secure aggregation for federated learning. In *Under revision*.

4 Marcelli, A., Graziano, M., Ugarte-Pedrero, X., Fratantonio, Y., **Mansouri**, **M.**, & Balzarotti, D. (2022). How machine learning is solving the binary function similarity problem. In Usenix (Ed.), *Usenix 2022, 31st usenix security symposium, 10-12 august 2022, boston, ma, usa*, Boston. Retrieved from https://www.usenix.org/conference/usenixsecurity22/presentation/marcelli

5 **Mansouri**, **M.**, Ben Jaballah, W., Önen, M., Rabbani, M. M., & Conti, M. (2021). Fadia: Fairness-driven collaborative remote attestation. In *Proceedings of the 14th acm conference on security and privacy in wireless and mobile networks* (pp. 60–71). doi:10.1145/3448300.3468284

6 **Mansouri**, **M.**, Bozdemir, B., Önen, M., & Ermis, O. (2020). Pac: Privacy-preserving arrhythmia classification with neural networks. In A. Benzekri, M. Barbeau, G. Gong, R. Laborde, & J. Garcia-Alfaro (Eds.), *Foundations and practice of security* (pp. 3–19). doi:10.1007/978-3-030-45371-8_1

References (Contact info. available on request)

Melek Önen, EURECOM
Supervisor of PhD thesis
www.eurecom.fr/~onen/.

Wafa Ben Jaballah, THALES
Co-supervisor of PhD thesis.

George Portokalidis, SIT
Supervisor of master thesis
www.portokalidis.net/.

Davide Balzarotti, EURECOM
Co-supervisor of master thesis
www.s3.eurecom.fr/~balzarot/.

Olivier Bettan, THALES
Head of Therisis team.