Léo Weissbart

Curriculum Vitae

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Work Experience

Jul-Dec 2023	**Teacher**, *Radboud University*, Nijmegen – The Netherlands. Teacher at the Faculty of Science of Radboud University
May 2021 - Feb 2022	**Research Internship**, Rambus, Rotterdam-The Netherlands. Neural network side-channel analysis and countermeasures on FPGA.

Education

2018–2023	**PhD Candidate**, *TU Delft and Radboud University*, Delft and Nijmegen – The Netherlands, Side-Channel Analysis and Deep Learning. Supervisors: Stjepan Picek and Lejla Batina
Feb-Jul 2018	**Research Student**, Okayama University, Okayama – Japan. Worked on the implementation of cryptographic attack on elliptic curves Curve25519 using pattern recognition algorithms.
Jan-Jul 2017	**Industrial Project**, Chauvin Arnoux, Valence – France. Designed and developed an embedded measuring system to detect insulation fault in electric network.
Jun-Aug 2016	**Summer Intern**, HCMC University, Ho Chi Minh City – Vietnam. Developed a software application to analyze emotion through brain waves information.
2015–2018	**Master's Degree in Engineering School**, *Grenoble INP – Esisar*, Valence–France. Advanced Systems and Networks Engineering School
2012–2015	**Classe Préparatoire**, *Lycée Albert Schweitzer*, Mulhouse – France. Preparatory Classes for Engineering Schools

Computer Skills

Advanced	Conception and design of integrated circuits, Embedded system security, Side-channel evaluation, Deep learning analysis
Experienced	C/C++, Python, Java, VHDL/Verilog, Linux, Git, LaTeX

Published Papers

"Label Correlation in Deep Learning-based Side-channel Analysis" – IEEE TIFS 2023

"On reverse engineering neural network implementation on GPU" – AIHWS 2021

"Screen Gleaning: A Screen Reading TEMPEST Attack on Mobile Devices Exploiting an Electromagnetic Side Channel" – NDSS Symposium 2021

"Systematic Side-Channel Analysis of Curve25519 with Machine Learning" – Journal of Hardware and Systems Security 2020

"On the Performance of Multilayer Perceptron in Profiling Side-channel Analysis" – AIHWS 2020

"One trace is all it takes: Machine Learning-based Side-channel Attack on EdDSA" – SPACE 2019

Languages

French (Mothertongue), **English** (Fluent), **German** (Intermediate)