Léo Weissbart

Curriculum Vitae

10, rue du vieil-Armand
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leoweissbart.github.io

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)