Marc DAMIE

Ph.D. Student in Privacy-Preserving Machine Learning

☑ marc.damie@inria.fr | 🗥 https://marc.damie.eu/ | 🕥 MarcT0K | 😘 marc_t0k | 🎖 | • Enschede, NL

Education _____

Ph.D. in Computer Science (under preparation)

Apr. 2022 - now

Université de Lille

Subject: Secure protocols for verifiable decentralized machine learning. Supervisors: Dr. Jan Ramon (Inria Lille, France), Prof. Andreas Peter (University of Oldenburg, Germany), and Dr. Florian Hahn (University of Twente, The Netherlands).

Master's Degree in Computer Science (i.e., "Diplôme d'ingénieur")

Sep. 2016 - Aug. 2022

Université de Technologie de Compiègne (UTC) - Alliance Sorbonne Université

Major: Data Mining and Engineering. 3 Minors: Philosophy, Technology and Cognition/ Communication and Technological Controversies/ Mathematical Modelling. GPA: 5/5.

French Scientific "Baccalauréat"

Sep. 2013 - Jul. 2016

Lycée Fénelon (93)

Employment History

University of Twente October 2023 - September 2025

Researcher contract (i.e., end of PhD preparation)

Inria April 2022 - September 2023

Doctoral contract

Inria October 2021 - April 2022

Research engineer in the MAGNET team

Inria Feb. 2021 - Jul. 2021

Research engineering internship in the MAGNET team

University of Twente Feb. 2020 - Jul. 2020

Research intern in the Services, Cybersecurity and Safety group

Gatewatcher Aug. 2019 - Feb. 2020

Back-end intern on the intrusion detection system Trackwatch

Freelance 2020

MOOC-like content for a programming training

Academic Service

Reviews 2022 - now

Sub-reviews for CCS 2024, PETS 2023, CODASPY 2022.

Artifact Evaluation 2023 - now

Member of the AE committees of NDSS 2025, NDSS 2024, PETS 2025, PETS 2024.

Wikipedia contributions 2023 - now

More than 1000. Mostly on French-speaking Wikipedia.

Student Representative in the Board of Directors

2017 - 2021 Université de Technologie de Compiègne

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Publications _____

- [1] M. Damie, F. Hahn, and A. Peter, "A Highly Accurate Query-Recovery Attack against Searchable Encryption using Non-Indexed Documents", USENIX Security 2021
- [2] M. Dijkslag, **M. Damie**, F. Hahn, and A. Peter, "Passive query-recovery attack against secure conjunctive keyword search schemes", ACNS 2022
- [3] M. Damie, J-B. Leger, F. Hahn, and A. Peter, "The statistical nature of leakage in SSE schemes and its role in passive attacks", [Under review] 2024
- [4] M. Damie, F. Hahn, J. Ramon and A. Peter, "Secure Sparse Matrix Multiplications and their applications to Privacy-Preserving Machine Learning", [Under review] 2024
- [5] **M. Damie**, F. Hahn, J. Ramon and A. Peter, "How to securely shuffle? A survey about secure shufflers in Federated Learning", [To be submitted] 2024

Awards and Honors _____

May 2022 Nomination (i.e., top 3) for the Dutch cybersecurity research paper for Damie et al. (USENIX 2021)

♥ Volunteering in non-profit organization ______

Rhizome (non-profit Internet Service Provider)

2018 - 2022

Member then treasurer

TEDxUTCompiègne 2017 - 2018

Communication and Partnerships Manager

References _____

- Prof. Andreas Peter
 University of Oldernburg, Germany

 □ andreas.peter@uni-oldenburg.de