

Marc DAMIE

Privacy Researcher, Ph.D.

🏠 <https://marc.damie.eu/> | 🔗 MarcT0K | 🌐 | 📧 | 📧 | 📧

🎓 Education

Ph.D. in Computer Science

Apr. 2022 - Dec. 2025

Université de Lille

Topic: Privacy-Preserving Computations on Sparse Data.

Supervisors: Jan Ramon (Inria, FR), Andreas Peter (University of Oldenburg, DE), and Florian Hahn (University of Twente, NL).

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

Sep. 2016 - Aug. 2021

Université de Technologie de Compiègne

Major: Data Mining. **3 Minors:** Philosophy / Technological Controversies / Math Modelling. **GPA:** 5/5.

💼 Employment History

University of Twente

Oct. 2023 - Dec. 2025

Researcher contract in the Semantics, Cybersecurity and Services group

Inria

Apr. 2022 - Sep. 2023

Doctoral contract in the MAGNET (MACHINE learninG in information NETWORKs) team

Inria

Feb. 2021 - Mar. 2022

Research engineer in the MAGNET (MACHINE learninG in information NETWORKs) team

University of Twente

Feb. 2020 - Jul. 2020

Research intern in the Semantics, Cybersecurity and Services group

Gatewatcher

Aug. 2019 - Feb. 2020

Back-end intern on an intrusion detection system

👤 Volunteering

ctrl+alt+reclaim

2024-

Co-founder of a European collective promoting youth-driven digital regulations

Twente Hacking Squad

2023-

Member and active player in CTF challenges

Rhizome (non-profit Internet Service Provider)

2018 - 2022

Member then treasurer

🏆 Awards and Honors

May 2022

Nomination for Dutch Cyber Security best Research Paper (DCSRP) 2021

March 2025

Young Talents in Cybersecurity 2025 (by the French Embassy in the NL and Dutch Embassy in FR)

July 2025

Distinguished Reviewer PETS AE 2025

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, "Revisiting the attacker's knowledge in inference attacks against Searchable Symmetric Encryption", ACNS 2025
- [4] B. van Dartel, **M. Damie**, and F. Hahn, "Evaluating Membership Inference Attacks in heterogeneous-data setups", SiMLA/ACNS 2025
- [5] **M. Damie**, F. Hahn, A. Peter, and J. Ramon, "Eliminating Exponential Key Growth in PRG-based Distributed Point Functions", DPM/ESORICS 2025
- [6] **M. Damie**, F. Hahn, A. Peter, and J. Ramon, "DDH-based schemes for multi-party Function Secret Sharing", NordSec 2025
- [7] **M. Damie**, M. Pop, and M. Posthuma, "Energy Consumption of TLS, Searchable Encryption, and FHE", FPS 2025
- [8] **M. Damie**, and E. Cyffers, "Fedivertex: a graph dataset based on Decentralized Social Networks", WWW 2026
- [9] **M. Damie**, F. Hahn, A. Peter, and J. Ramon, "Secure Sparse Matrix Multiplications and their applications to PPML", 2025
- [10] **M. Damie**, F. Mazzone, F. Hahn, A. Peter, and J. Ramon, "Noisy Function Secret Sharing and its application to DP", 2025
- [11] **M. Damie**, F. Hahn, A. Peter, and J. Ramon, "How to securely shuffle? A survey about secure shufflers in privacy-preserving computations", 2025
- [12] N.Guldali, C. Gupta, and **M. Damie**, "IoTLS 2.0: How Far Has IoT Industry Come in Securing Communications with TLS?", 2025

Teaching

System Administration

Design of MOOC-like content

2018

Student Association

Programming 101

Design of MOOC-like content

2020

Freelance

Architecture of Operating Systems

Instructor

2023

University of Lille

Secure Data Management

Instructor

2024-2026

University of Twente

Academic Service

Reviews

Reviews (or sub-reviews) for IEEE TIFS, DIMVA 2026, UAI 2025, CCS 2024, PETS 2023, CODASPY 2022.

2022 - now

Artifact Evaluation

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

2023 - now

Scientific events

Part of the local organization of the CSF symposium 2024

2024 - now

Student Representative in the Board of Directors

Université de Technologie de Compiègne

2017 - 2021

Public Speaking

Komm setz dich! at the Silbersalz Festival

Round table on "Privacy in the digital world, mission impossible?"

2024

Halle, Germany

PublicSpaces Conference

Lightning talk on "Federated Machine Learning for the Fediverse"

2024

Amsterdam, The Netherlands

ONE Conference

Round table on "Teaching ethics to (future) IT professionals"

2025

The Hague, The Netherlands

ONE Conference

Talk on "Are you sure that your LLM is not poisoned?" (Young Talents programme)

2025

The Hague, The Netherlands

Media Coverage

Deutsche Welle

Interview about the social media ban for under-15s.

06/02/2026

Germany

Le Monde

Op-ed about the social media ban for under-15s.

25/01/2026

France

France Info

Interview about the social media ban for under-15s.

26/01/2026

France

Logging Off: The Human Cost of Our Digital World

Interview about the construction of alternative digital spaces by Adele Zeynep Walton for her book *Logging Off: The Human Cost of Our Digital World*.

2025

United Kingdom

Science Communication

Silbersalz Institute

Training programme for scientists wanting to break into the media sphere.

2024

Scientific Game Jams

Co-created two small games presenting scientific concepts. My itch.io: MarcT0K

2024

Wikipedia contributions

More than 1000 contributions. Mostly on French-speaking Wikipedia.

2023 - now

Languages

French Native

English Professional

Dutch Intermediate

Spanish Beginner