Marc DAMIE
Ph.D. Student in Privacy-Preserving Machine Learning

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🎓 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

Major: Data Mining. **3 Minors**: Philosophy / Technological Controversies / Math 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 Ph.D. 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.

Scientific events — 2024 - now
Parf of the local organization of the CSF symposium 2024

Student Representative in the Board of Directors — 2017 - 2021
Université de Technologie de Compiègne

✎ 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)

📢 Science communication

Silbersalz Institute   2024
Training programme for scientists wanting to break into the media sphere.

Scientific Game Jams   2024
Co-created two small games presenting scientific concepts. My itch.io: MarcT0K

Wikipedia contributions   2023 - now
More than 1000. Mostly on French-speaking Wikipedia.

🚀 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
- Dr. *Jean-Benoist Leger*
  University de Technologie de Compiègne, France.   ✉ jbleger@hds.utc.fr