Florine W. Dekker

PhD cybersecurity

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ORCID
GitHub
LinkedIn
StackOverflow

I create and analyse privacy-enhancing technologies, which allow cooperation without sharing sensitive data. I learn quickly and thoroughly, and present my findings clearly. I know how to communicate and delegate, and like working in teams. I am looking for a way to use my knowledge and skills for social good.

Vocation and education

2020–2025 **PhD candidate**, *TU Delft*, repository link
- Researched disclosure prevention in privacy-preserving summation sequences using graph theory.
- Directed and performed highly independently, interspersed with several collaborations.
- Supervised six master students, prepared and presented lectures, and created and graded exams.

2018–2020 **MSc cybersecurity**, *TU Delft*, repository link
- Mixture of computer science courses (e.g. network security, system validation, and cryptography) and policy courses (e.g. cyber risk management, and ethics and values).
- Thesis on a probabilistic range proof system for privacy-preserving summation protocols.

2017 **Minor computer science**, *UWaterloo, Canada*
Studied abroad and followed courses including integer linear programming, ring theory, and UX design.

2016–2020 **Student–assistant**, *TU Delft*
Graded assignments and assisted students in practicals in eleven instances of five different courses.

2015–2018 **BSc computer science**, *TU Delft*, repository link
- Subjects including assembly language, object-oriented programming, propositional logic, linear algebra, presentation skills, and ethics.
- Thesis on automated detection of breaking changes.

Publications

2025 **Optimal Graph Stretching for Distributed Averaging**
Journal paper, under preparation, arXiv, link.

2025 **Privacy-Preserving Peer-to-Peer Cycle Detection**
Conference paper, under preparation.

2025 **Topology-Based Reconstruction Prevention for Decentralised Learning**
Conference paper, PETS, link.

2024 **Privacy-Preserving Data Aggregation with Public Verifiability Against Internal Adversaries**
Conference paper, USENIX Security, link.

2021 **Privacy-Preserving Data Aggregation with Probabilistic Range Validation**
Conference paper, ACNS, link, link.

Public speaking

2024 **NWO ICT.OPEN**

2023 **CWG**, *Crypto Working Group*

2023 **CSNg**, *Cyber Security Next Generation*

2023 **WICCA**, *Women In Cybersecurity Communication Association*

Hobby projects

IntelliJ Randomness, *open-source project*
Plugin for inserting random data in IntelliJ-based IDEs. 200 thousand unique downloads. link

Minesweeper, *open-source project*
Provably solvable web-based minesweeper. link