

Teri Lenard

WORK EXPERIENCE

George Emil Palade University of Medicine, Pharmacy, Science and Technology of Targu Mures – Targu Mures, Romania

Assistant lecturer

[09/2024 – Current]

University of Geneva – Geneva, Switzerland

Research assistant

[10/2022 – 09/2024]

George Emil Palade University of Medicine, Pharmacy, Science and Technology of Targu Mures – Targu Mures, Romania

Assistant lecturer

[10/2020 – 08/2022]

George Emil Palade University of Medicine, Pharmacy, Science and Technology of Targu Mures – Targu Mures, Romania

Research assistant

[09/2019 – 08/2022]

Part of *Horizon 2020 DIAS project* (Smart Adaptive Remote Diagnostic Antitampering Systems).

Thingsmaze Solutions – Targu Mures, Romania

Programmer

[02/2021 – 03/2022]

Software development focused on Integrating Internet of Things technologies. Mainly working with technologies such as python, SQLite, MongoDB, and communication protocols such as: XMPP, HTTP/HTTPS.

Kalos Information Systems – Targu Mures, Romania

Programmer

[09/2017 – 02/2019]

Focusing on integrating, developing and testing home automation technologies into the core system:

- Integrated smart home protocols into the core middleware, mainly focused on the Z-Wave protocol
- Smart sensor testing and behavior debugging
- Software development focused using python, SQLite, MongoDB and ZMQ

EDUCATION AND TRAINING

PhD, Information Systems
University of Geneva [02/2021 – 10/2024]

Address: 24 rue du Général-Dufour 1211 Genève 4, Switzerland,

PhD, Informatics
George Emil Palade University of Medicine, Pharmacy, Science and Technology of Targu Mures [09/2020 – 09/2024]

Address: Gheorghe Marinescu 38 , 540142 Targu Mures (Romania)

Cisco CCNA Security academic certification
George Emil Palade University of Medicine, Pharmacy, Science and Technology of Targu Mures [2019]

Address: Gheorghe Marinescu 38, 540142 Targu Mures (Romania)

Master of science, Information Technology
George Emil Palade University of Medicine, Pharmacy, Science and Technology of Targu Mures [09/2018 – 07/2020]

Address: Gheorghe Marinescu 38 , 540142 Targu Mures (Romania)

Cisco CCNA Routing and Switching academic certification
George Emil Palade University of Medicine, Pharmacy, Science and Technology of Targu Mures [2018 – 2019]

Address: Gheorghe Marinescu 38, 540142 Targu Mures (Romania)

Bachelor's degree, Informatics
Petru Maior University of Targu Mures [09/2015 – 07/2018]

Address: Nicolae Iorga 1, 540088 Targu Mures (Romania)

High school diploma, Public Administration
Economic College of "Transylvania" Targu Mures [09/2011 – 08/2015]

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Software

Microsoft Office

Programming

C / Python / LaTeX

Operating Systems

Windows / Linux

PUBLICATIONS

[2020]
MixCAN: Mixed and Backward-Compatible Data Authentication Scheme for Controller Area Networks IFIP Networking 2020 Conference (IFIP Networking 2020), Paris, France

Teri Lenard, Roland Bolboaca, Bela Genge and Piroska Haller

[2020]
Locality Sensitive Hashing for Tampering Detection in Automotive Systems ARES: The 15th International Conference on Availability, Reliability and Security, 2020, Dublin, Irland

Roland Bolboaca, Teri Lenard, Bela Genge and Piroska Haller

[2020]

LOKI: A Lightweight Cryptographic Key Distribution Protocol for Controller Area Networks https://ieeexplore.ieee.org/abstract/document/9266192International Conference on Intelligent Computer Communication and Processing ICCP 2020, Cluj, Romania

Teri Lenard, Roland Bolboaca and Bela Genge

[2021]
A Statefull Firewall and Intrusion Detection System Enforced with Secure Logging for Controller Area Network European Interdisciplinary Cybersecurity Conference, Targu Mures, Romania.

Teri Lenard, Roland Bolboaca

[2023]
An Automotive Reference Testbed with Trusted Security Services Electronics 12, no. 4: 888.

Teri Lenard, Bela Genge, Piroska Haller, Anastasija Collen, and Niels Alexander Nijdam

[2023]
A Key to Embedded System Security: Locking and Unlocking Secrets with a Trusted Platform Module The 1st International Workshop on Re-design Industrial Control Systems with Security

Teri Lenard, Anastasija Collen and Niels A. Nijdam, Bela Genge

[2023]
A Systematic Review of Threat Analysis and Risk Assessment Methodologies for Connected and Automated Vehicles The 3rd International Workshop on Advances on Privacy Preserving Technologies and Solutions

Meriem Benyahya, Teri Lenard, Anastasija Collen, Niels Alexander Nijdam

[2023]
LOKI-2: An Improved Lightweight Cryptographic Key Distribution Protocol for Automotive Systems 2023 IEEE 19th International Conference on Intelligent Computer Communication and Processing

Teri Lenard, Bela Genge, Anastasija Collen and Niels A. Nijdam

[2023]
Exploring Trust Modelling and Management Techniques in the Context of Distributed Wireless Networks: A Literature Review IEEE Access

Teri Lenard, Anastasija Collen, Meriem Benyahya, Bela Genge, and Niels Alexander Nijdam

[2023]
A Tale of Two Automotive Security Services: A Formal Analysis The 17th International Conference Interdisciplinarity in Engineering

Teri Lenard

[2023]
A systematic review of threat analysis and risk assessment methodologies for connected and automated vehicles

Authors: Meriem Benyahya, Teri Lenard, Anastasija Collen, Niels Alexander Nijdam | **Journal Name**: Proceedings of the 18th international conference on availability, reliability and security

[2025]
TARA 2.0 for Connected and Automated Vehicles

Authors: Meriem Benyahya, Anastasija Collen, Teri Lenard, Niels Alexander Nijdam | **Journal Name**: IEEE Transactions on Intelligent Transportation Systems

[2025]
APU-TrajGen+: GRU-based Adaptive Privacy and Utility Preserving Trajectory Generation

Authors: Adrian-Silviu Roman, Roland Bolboacă, Teri Lenard, Piroska Haller | **Journal Name**: IEEE Access

NETWORKS AND MEMBERSHIPS

[10/2022] Geneva, Switzerland

Part of I-SEC (Information Security Lab) at University of Geneva

Link: https://isec.unige.ch/

[09/2019 – Current] Targu Mures, Romania

Member Part of NISLAB (Network and Information Security Laboratory) at George Emil Palade University of Medicine, Pharmacy, Science and Technology of Targu Mures.

Link: https://nislab.umfst.ro/

ONLINE PRESENCE

Github page

Github page used to managed public solutions developed as part of the DIAS project (https://dias-project.com) at George Emil Palade University of Medicine, Pharmacy, Science and Technology of Targu Mures.

Link: https://github.com/terilenard