

Mariam Wehbe

PhD in Computer Science



9 rue Maurice Roy
18000 Bourges, France



+33 7 65 59 56 94



mariam.wehbe@gmail.com

Professional Experience

- 2023 – now PhD INSA Centre Val de Loire
- Research Experience: Make the case for using logics as a base to implement trust algorithms in a Zero Trust environment within an ontology-based context to achieve explainable decisions.
 - Develop trust algorithms for cyber attacks to evaluate the trust and estimate whether a source is malicious, relying on structured data.
 - We assess Cyber Threat Intelligence (CTI) information retrieved from CTI platforms such as openCTI, which is a STIX-based web ontology.
 - Teaching Experience: Networks and Operating Systems, 60 eqTD hours for 2nd and 3rd year students (TD and TP)
- 2023 Internship for 6 months INSA Centre Val de Loire
- Research Experience: Modeling of trust based on the description logic in Zero Trust Architectures
- 2016 – 2022 Data administrator in the IT department Presidency of the Council of Ministers, Lebanon
- Ensure the classification of documents and extraction of structured data
 - Ensure data entry after validation in information systems
- 2007 – 2016 Web and Graphic Project Manager Teleblue, Lebanon
- Support clients and customers on web and graphic projects
 - Estimate the costs, build the schedule, monitor the progress of the projects
 - Write the specifications, ensure the operational customer relationship and guarantee the quality of deliverables
 - Check the relevance and functional performance of website applications
- 2006 – 2007 Project Coordinator Comium Group, Lebanon
- Write proposals, monitor DSL projects, User support
 - Pre-sales, proposals, planning, testing, quality assurance and delivery of web projects

Education

- 2023 – now PhD in Computer Science INSA Centre Val de Loire
- at LIFO (Laboratoire d'Informatique Fondamentale d'Orléans), under the supervision of the thesis director Sabine Frittella (Assistant Professor) and the supervisor Laurent Bobelin (Assistant Professor)
- 2022 Master's degree University of Rennes, France
- Cloud and Networks
- 2015 Engineering degree in computer science (Master's degree) ISSAE
- Cnam, Lebanon; issued by Cnam Paris
- Networks, systems and multimedia
- 2008 DEST Computer Science (Bac +4 equivalent) ISSAE Cnam, Lebanon; issued by Cnam Paris
- Engineering and IT integration - control system

Misc:

- Speaking French (fluent), English (fluent), Arabic (native)

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Certifications

2025	Semantic Web and Web of Data MOOC)	Inria, France Université Numérique (FUN
2024	Introduction to Machine Learning	INSA Centre Val de Loire
2024	Deep Learning and applications	INSA Centre Val de Loire
2020	Usable Security Course	University of Maryland, Coursera
2016	Project Management Professional (PMP) Preparation Course	AMIDEAST, Lebanon
2013 – 2014	English courses (Intermediate 4A and Intermediate 4B)	AMIDEAST, Lebanon

Publication List

National Conferences with Peer Review

- Modeling Trust in Cyber Threat Intelligence within a Zero Trust Architecture, Mariam Wehbe, Laurent Bobelin, Sabine Frittella, Rendez-vous de la Recherche et de l'Enseignement de la Sécurité des Systèmes d'Information (RESSI 2025), Bretagne Sud, May 2025
- Formalizing trust in Cyber Threat Intelligence, Mariam Wehbe, Laurent Bobelin, Sabine Frittella, 2025 Annual Meeting of the WG "Formal Methods in Security (GTMFS 2025), Le Mont-Dore, March 2025
- Vers une modélisation de la confiance dans le renseignement sur les menaces cyber, Laurent Bobelin, Sabine Frittella, Mariam Wehbe, in proc. of 33èmes rencontres francophones sur la logique floue et ses applications (LFA 2024), Brest, November 2024

Other Conferences, Talks and Posters

- Podcast, Mariam Wehbe, under preparation for publication in 2025, Bourges, February 2025
- Modeling Trust using Formalization in Zero Trust Architecture, Mariam Wehbe, Laurent Bobelin, Sabine Frittella, École d'été 2024 du GDR sécurité informatique, Bourges, July 2024
- Zero Trust Architecture: The Case for Logics, Mariam Wehbe, Laurent Bobelin, Sabine Frittella, proc. of Conférence francophone d'informatique en Parallélisme, Architecture et Système (Compas 2024), Nantes, July 2024
- Zero Trust Architecture: The Case for Logics, Sabine Frittella, Laurent Bobelin, Mariam Wehbe, 32èmes rencontres francophones sur la logique floue et ses applications (LFA 2023), Bourges, November 2023
- Evaluation de la confiance dans les architectures Zero Trust, Mariam Wehbe, Laurent Bobelin, Sabine Frittella, Journées informatique en Région Centre-Val de Loire (JIRC 2023), Tours, October 2023