

Eric WAGNER

Security & Privacy Researcher

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EDUCATION

2026 2020	Dr. rer. nat. (Ph.D.) in Cybersecurity & Applied Cryptography RWTH Aachen University Thesis: Efficient Message Authentication in the Industrial Internet of Things	Aachen, Germany
2020 2018	Master of Computer Science RWTH Aachen University Thesis: Enabling Limited Identity Recovery in Anonymity Networks Minor in Physics	Aachen, Germany
2017 2014	Bachelor of Computer Science RWTH Aachen University Thesis: QoS-aware Relaying in Ultra-low Latency Wireless Communication Minor in Physics	Aachen, Germany
2014 2007	Enseignement secondaire classique (section B: mathématique - informatique) Lycée Robert Schuman	Luxembourg, Luxembourg

WORK EXPERIENCE

- 2026	Postdoctoral Researcher Interdisciplinary Centre for Security, Reliability and Trust at University of Luxembourg	Luxembourg, Luxembourg
2025 2020	Associate Researcher Cyber Analysis and Defense (CA&D) department at Fraunhofer FKIE	Aachen, Germany
2019 2017	Student Research Assistant Chair of Communication and Distributed Systems (COMSYS) at RWTH Aachen University	Aachen, Germany

SELECTED RECENT PUBLICATIONS

Peer-reviewed Publications: ≥ 29 Citations: ≥ 440 H-Index: ≥ 11

- [1] K. Wolsing, E. Wagner, L. Lux, K. Wehrle, and M. Henze, "GeCos Replacing Experts: Generalizable and Comprehensible Industrial Intrusion Detection," in *Proceedings of the 34th USENIX Security Symposium (USENIX Sec'25)*, 2025.
- [2] E. Wagner, F. Basels, J. Bauer, T. Zimmermann, K. Wehrle, and M. Henze, "CAIBA: Multicast Source Authentication for CAN Through Reactive Bit Flipping," in *Proceedings of the 10th European Symposium on Security and Privacy (IEEE EuroS&P'25)*, 2025.
- [3] E. Wagner, L. Bader, K. Wolsing, and M. Serror, "Sherlock: A Dataset for Process-aware Intrusion Detection Research on Power Grid Networks," in *Proceedings of the 15th ACM Conference on Data and Application Security and Privacy (ACM CODASPY'25)*, 2025.
- [4] E. Wagner, D. Heye, M. Serror, I. Kunze, K. Wehrle, and M. Henze, "Madtlis: Fine-grained Middlebox-aware End-to-end Security for Industrial Communication," in *Proceedings of the 19th ACM Asia Conference on Computer and Communications Security (ACM AsiaCCS'24)*, 2024.
- [5] E. Wagner, M. Serror, K. Wehrle, and M. Henze, "When and How to Aggregate Message Authentication Codes on Lossy Channels?" In *Proceedings of the 2024 Applied Cryptography and Network Security (ACNS'24)*, 2024.
- [6] J. Pennekamp, R. Matzutt, C. Klinkmüller, L. Bader, M. Serror, E. Wagner, S. Malik, M. Spiß, J. Rahn, T. Gürpınar, E. Vlad, S. J. J. Leemans, S. S. Kanhere, V. Stich, and K. Wehrle, "An Interdisciplinary Survey on Information Flows in Supply Chains," *ACM Computing Surveys*, vol. 56, no. 2, 2024.
- [7] K. Wolsing, E. Wagner, A. Saillard, and M. Henze, "IPAL: Breaking up Silos of Protocol-dependent and Domain-specific Industrial Intrusion Detection Systems," in *Proceedings of the 25th International Symposium on Research in Attacks, Intrusions and Defenses*, 2022.

TEACHING

- › Seminar: Advanced Internet Technologies (SS 21, WS 21, SS 22, WS 22, SS 23, WS 23, SS 24)
- › Research Focus Class: Securing Industrial Networks (SS 21)
- › Lab: Industrial Intrusion Detection (SS 22, SS 23)
- › Advised 5 Bachelor's theses and 8 Master's theses

PROFESSIONAL SERVICE

Reviewer for Journals

- › Ad Hoc Networks (2025)
- › Computers & Security (2024, 2025)
- › IEEE Access (2021, 2024, 2025)
- › International Journal of Critical Infrastructure Protection (2024)
- › Journal of Information Security and Applications (2022)
- › Computer Communications (2021)

External Reviewer for Conferences

- › IEEE S&P: IEEE Symposium on Security and Privacy (2024)
- › NDSS: Network and Distributed System Security Symposium (2024)
- › IEEE EuroS&P: IEEE European Symposium on Security and Privacy (2022)
- › IEEE ICBC: IEEE International Conference on Blockchain and Cryptocurrency (2021)
- › IEEE LCN: IEEE Conference on Local Computer Networks (2021)

AWARDS

- 2020 Prix d'excellence by Fondation Enovos for my Master's thesis
- 2020 Most Promising Young Talents Award by Cybersecurity Luxembourg
- 2020 Runner up at the CAST Förderpreis IT-Sicherheit by the CAST e.V. for my Master's thesis
- 2019 Student Travel Grant to visit the IEEE International Conference on Blockchain and Cryptocurrency in Seoul, South Korea by the *IEEE Communication Society*
- 2019 Most Promising Young Talents Award by Cybersecurity Luxembourg

LANGUAGES

English

Listening	Proficient User (C2)
Speaking	Proficient User (C2)
Reading	Proficient User (C2)
Writing	Proficient User (C2)

German

Listening	Proficient User (C2)
Speaking	Proficient User (C2)
Reading	Proficient User (C2)
Writing	Proficient User (C2)

Luxembourgish

Listening	Native
Speaking	Native
Reading	Native
Writing	Native

French

Listening	Proficient User (C1)
Speaking	Independent User (B2)
Reading	Proficient User (C1)
Writing	Independent User (B2)