

# Eric WAGNER

## Security & Privacy Researcher

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## EDUCATION

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

## WORK EXPERIENCE

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

## 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, “Madtls: 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. Gürpinar, 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

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- 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

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### 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

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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

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English		Luxembourgish	
Listening	Proficient User (C2)	Listening	Native
Speaking	Proficient User (C2)	Speaking	Native
Reading	Proficient User (C2)	Reading	Native
Writing	Proficient User (C2)	Writing	Native
German		French	
Listening	Proficient User (C2)	Listening	Proficient User (C1)
Speaking	Proficient User (C2)	Speaking	Independent User (B2)
Reading	Proficient User (C2)	Reading	Proficient User (C1)
Writing	Proficient User (C2)	Writing	Independent User (B2)