

# Eric WAGNER

## Security & Privacy Researcher

@ [eric.michel.wagner@rwth-aachen.de](mailto:eric.michel.wagner@rwth-aachen.de)  
g [scholar.google.com/citations?user=9lYfEr4AAAAJ](https://scholar.google.com/citations?user=9lYfEr4AAAAJ)  
in [linkedin.com/in/eric-wagner-850744106](https://linkedin.com/in/eric-wagner-850744106)



## EDUCATION

|      |  |                        |
|------|--|------------------------|
| 2026 | <b>Dr. rer. nat. (Ph.D.) in Cybersecurity &amp; Applied Cryptography</b>   | Aachen, Germany        |
| 2020 | RWTH Aachen University<br>Thesis: Efficient Message Authentication in the Industrial Internet of Things              |                        |
| 2020 | <b>Master of Computer Science</b>  | Aachen, Germany        |
| 2018 | RWTH Aachen University<br>Thesis: Enabling Limited Identity Recovery in Anonymity Networks<br>Minor in Physics       |                        |
| 2017 | <b>Bachelor of Computer Science</b>  | Aachen, Germany        |
| 2014 | RWTH Aachen University<br>Thesis: QoS-aware Relaying in Ultra-low Latency Wireless Communication<br>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)           |
| Speaking  | Proficient User (C2)           |
| Reading   | Proficient User (C2)           |
| Writing   | Proficient User (C2)           |
| German    | French                         |
| Listening | Proficient User (C2)           |
| Speaking  | Proficient User (C2)           |
| Reading   | Proficient User (C2)           |
| Writing   | Proficient User (C2)           |
|           | Listening Native               |
|           | Speaking Native                |
|           | Reading Native                 |
|           | Writing Native                 |
|           | Listening Proficient User (C1) |
|           | Speaking Independent User (B2) |
|           | Reading Proficient User (C1)   |
|           | Writing Independent User (B2)  |