

# Eric WAGNER

## Security & Privacy Researcher

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🔗 scholar.google.com/citations?user=9lyfEr4AAAAJ    in linkedin.com/in/eric-wagner-850744106



## 🎓 EDUCATION

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

## 📁 WORK EXPERIENCE

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

## 📖 SELECTED RECENT PUBLICATIONS

Peer-reviewed Publications: ≥27    Citations: ≥360    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

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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

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)