

Luca Wilke

Curriculum Vitae

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Personal Information

Date of Birth **30.09.1995**
Nationality **German**

Education

- 02.2020 – **Researcher/PhD Student**, *University of Lübeck*
today Research Areas: *Systems Security* and *Trusted Execution Environments*. Planning to graduate by 02/2025
- 10.2017 – **Master in Computer Science**, *University of Lübeck*, Grade *1.0*, top of class
01.2020 Focus: *Computer Security and Reliability*
- 10.2014 – **Bachelor in Computer Science**, *University of Lübeck*, Grade: *1.4*
10.2017 Focus: *Computer Security and Reliability*

Selected Publications

- 2024 **Wilke, Scopelliti**, *SNPGuard: Remote Attestation of SEV-SNP VMs Using Open Source Tools*, SysTEX'24
- 2023 **Wilke, Wichelmann, Rabich, Eisenbarth**, *SEV-Step: A Single-Stepping Framework for AMD-SEV*, CHES 2024
- 2023 **Wichelmann, Pättschke, Wilke, Eisenbarth**, *Cipherfix: Mitigating Ciphertext Side-Channel Attacks in Software*, USENIX Security Symposium 2023
- 2022 **Li + Wilke (equal contribution), Wichelmann, Eisenbarth, Teodorescu, Zhang**, *A Systematic Look at Ciphertext Side Channels on AMD SEV-SNP*, IEEE SP 2022
- 2021 **Wilke, Wichelmann, Sieck, Eisenbarth**, *undeSErVed trust*, WOOT 2021
Best Paper Award
- 2020 **Wilke, Wichelmann, Morbitzer, Eisenbarth**, *SEVurity*, IEEE S&P 2020

Invited Talks

- 2021 **The Role of Integrity in Attestation and Isolation**, *4rd Workshop on Attacks in Cryptography*
- 2021 **Attestation and Isolation Mechanisms of AMD SEV**, *Microsoft Research Redmond Cryptography and Privacy Colloquium*

Skills/Experience

- 01.2024 – **Visiting Scholar**, *KU Leuven*, Belgium
04.2024

04.2016 – **Student Employee**, *University of Lübeck*

02.2020 Conducting Tutoring Sessions, Grading Exercise Sheets

Languages, *German (native), English (fluent)*

Programming Languages, *C/C++, x86 Assembly, Go, Rust*

Trusted Execution Environments, *AMD SEV, Intel TDX, Keystone*

Linux Kernel Development