



Dr. Simon Koch

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Education

Dr. rer. nat. in Computer Science	2025
Technical University of Braunschweig, Braunschweig, Germany	
Master of Science in Computer Science	2018
Saarland University, Saarbrücken, Germany	
Bachelor of Science in Computer Science	2016
Saarland University, Saarbrücken, Germany	

Academic Experience

PostDoc	2025 – present
Security and Privacy Lab, University of Innsbruck, Innsbruck, Austria	
Research Assistant	2018 – 2025
Institut for Application Security, Technical University of Braunschweig, Braunschweig, Germany	
Student Researcher	2016 – 2018
CISPA, Saarland University, Saarbrücken, Germany	

Awards

Finalist for the CAST Dissertation Award	2026
Confusing Value with Enumeration — Distinguished Paper Award (USENIX)	2025
Extract: A PHP Foot-Gun Case Study — Best Paper Award (WOOT)	2025
The Fault in Our Stars — Best Presentation Award (MADWeb)	2024

Teaching

Static Program Analysis for (Web) Security (Master)	Winter 2025, Winter 2026
Secure Programming (Master)	Summer 2026

Publications

On the Mismatch of Disclosure Practices in Security and Privacy Research	2026
Koch, Hartung, Böhme, Klein <i>Workshop on Metascience and Critical Reflections in Security & Privacy (MetaCRISP)</i>	
Uncovering Bigger Truths: Deobfuscating PHP with Phoebe	2025
Karl, Koch, Klein, Johns <i>Annual Computer Security Applications Conference (ACSAC)</i>	
Extract: A PHP Foot-Gun Case Study	2025
Hartung, Koch, Johns <i>USENIX Conference on Offensive Technologies (WOOT)</i>	
Confusing Value with Enumeration: Studying the Use of CVEs in Academia	2025
Schloegel, Klischies, Koch, Klein, Gerlach, Wessels, Trampert, Johns, Vanhoef, Schwarz, Holz, Van Bulck <i>USENIX Security Symposium</i>	
HyTrack: Resurrectable and Persistent Tracking Across Android Apps and the Web	2025
Wessels, Koch, Dreschner, Bettels, Klein, Johns <i>USENIX Security Symposium</i>	
The Impact of Default Mobile SDK Usage on Privacy and Data Protection	2025
Koch, Karl, Kirchner, Wessels, Paschke, Johns <i>Privacy Enhancing Technologies Symposium (PETS)</i>	
SSRF vs Developers: A Study of SSRF-Defenses in PHP Applications	2024
Wessels, Koch, Pellegrino, Johns <i>USENIX Security Symposium</i>	
A Black-Box Privacy Analysis of Messaging Service Providers' Chat Message Processing	2024
Kirchner, Koch, Kamangar, Klein, Johns <i>Privacy Enhancing Technologies Symposium (PETS)</i>	
The Fault in Our Stars: An Analysis of GitHub Stars as an Importance Metric for Web Source Code	2024
Koch, Klein, Johns <i>Workshop on Measurements, Attacks, and Defenses for the Web (MADWeb)</i>	
Poster: The Risk of Insufficient Isolation of Database Transactions in Web Applications	2023
Koch, Wessels, Klein, Johns <i>ACM SIGSAC Conference on Computer and Communications Security (CCS)</i>	
The OK is Not Enough: Large Scale Study of Consent Dialogs in Smartphone Applications	2023
Koch, Altpeter, Johns <i>USENIX Security Symposium</i>	
FUZZILLI: Fuzzing for JavaScript JIT Compiler Vulnerabilities	2023
Groß, Koch, Bernhardt, Holz, Johns <i>Network and Distributed System Security (NDSS) Symposium</i>	
Keeping Privacy Labels Honest	2022
Koch, Wessels, Altpeter, Olvermann, Johns <i>Privacy Enhancing Technologies Symposium (PETS)</i>	
Raccoon: Automated Verification of Guarded Race Conditions in Web Applications	2020
Koch, Sauer, Johns, Pellegrino <i>ACM SIGAPP Symposium on Applied Computing (SAC)</i>	
Deemon: Detecting CSRF with dynamic analysis and property graphs	2017
Pellegrino, Johns, Koch, Backes, Rossow <i>ACM SIGSAC Conference on Computer and Communications Security (CCS)</i>	
Poster: In the net of the Spider: Measuring the Anonymity-Impact of Network-level Adversaries Against Tor	2015
Backes, Koch, Meiser, Mohammadi, Rossow <i>ACM SIGSAC Conference on Computer and Communications Security (CCS)</i>	