

Nicolas Huaman, M. Sc.

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Publications

Lead Conference Papers

- [M1] **“You have to read 50 different RFCs that contradict each other”: An Interview Study on the Experiences of Implementing Cryptographic Standards.** Von Nicolas Huaman, Jacques Suray, Jan H. Klemmer, Marcel Fourné, Sabrina Amft, Ivana Trummová, Yasemin Acar und Sascha Fahl. In: *Proc. 33rd Usenix Security Symposium (SEC’24)*. USENIX, 2024.
- [M2] **A Large-Scale Interview Study on Information Security in and Attacks against Small and Medium-sized Enterprises.** Von Nicolas Huaman, Bennet von Skarczinski, Christian Stransky, Dominik Wermke, Yasemin Acar, Arne Dreißigacker und Sascha Fahl. In: *Proc. 30th Usenix Security Symposium (SEC’21)*. USENIX, 2021.
- [M3] **If You Can’t Get Them to the Lab: Evaluating a Virtual Study Environment with Security Information Workers.** Von Nicolas Huaman, Alexander Krause, Dominik Wermke, Jan H. Klemmer, Christian Stransky, Yasemin Acar und Sascha Fahl. In: *Proc. 18th Symposium on Usable Privacy and Security (SOUPS’22)*. USENIX, 2022.
- [M4] **Passwords To-Go: Investigating Multifaceted Challenges for Password Managers in the Android Ecosystem.** Von Nicolas Huaman, Marten Oltrogge, Sabrina Klivan, Yannick Evers und Sascha Fahl. In: *Proc. 40th Annual Computer Security Applications Conference, (ACSAC’24)*. IEEE, 2024.
- [M5] **They Would do Better if They Worked Together: The Case of Interaction Problems Between Password Managers and Websites.** Von Nicolas Huaman, Sabrina Klivan, Marten Oltrogge, Yasemin Acar und Sascha Fahl. In: *Proc. 42nd IEEE Symposium on Security and Privacy (SP’21)*. IEEE, 2021.

Further Conference Papers

- [C1] **“We’ve Disabled MFA for You”: An Evaluation of the Security and Usability of Multi-Factor Authentication Recovery Deployments.** Von Sabrina Amft, Sandra Höltervennhoff, Nicolas Huaman, Alexander Krause, Lucy Simko, Yasemin Acar und Sascha Fahl. In: *Proceedings of the 2023 ACM SIGSAC Conference on Computer and Communications Security. CCS ’23*. New York, NY, USA: Association for Computing Machinery, 21. Nov. 2023, S. 3138–3152.
- [C2] **“Would You Give the Same Priority to the Bank and a Game? I Do Not!” Exploring Credential Management Strategies and Obstacles during Password Manager Setup.** Von Sabrina Klivan, Sandra Höltervennhoff, Nicolas Huaman, Yasemin Acar und Sascha Fahl. In: *Proc. 19th Symposium on Usable Privacy and Security (SOUPS’23)*. USENIX, 2023.
- [C3] **A Large Scale Investigation of Obfuscation Use in Google Play.** Von Dominik Wermke, Nicolas Huaman, Yasemin Acar, Brad Reaves, Patrick Traynor und Sascha Fahl. In: *Proc. 34th Annual Computer Security Applications Conference (ACSAC’18)*. ACM, 2018.
- [C4] **Attributing Open-Source Contributions is Critical but Difficult: A Systematic Analysis of GitHub Practices and Their Impact on Software Supply Chain Security.** Von Jan-Ulrich Holtgrave u. a. In: *Network and Distributed System Security (NDSS) Symposium 2025, February 24–28, 2025*. Internet Society, Feb. 2025.

- [C5] **Cloudy with a Chance of Misconceptions: Exploring Users' Perceptions and Expectations of Security and Privacy in Cloud Office Suites.** Von Dominik Wermke, Nicolas Huaman, Christian Stransky, Niklas Busch, Yasemin Acar und Sascha Fahl. In: *Sixteenth Symposium on Usable Privacy and Security (SOUPS 2020)*. USENIX Association, Aug. 2020, S. 359–377.
- [C6] **On the Limited Impact of Visualizing Encryption: Perceptions of E2E Messaging Security.** Von Christian Stransky, Dominik Wermke, Johanna Schrader, Nicolas Huaman, Yasemin Acar, Anna Lena Fehlhaber, Miranda Wei, Blase Ur und Sascha Fahl. In: *Proc. 17th Symposium on Usable Privacy and Security (SOUPS'21)*. USENIX, 2021.
- [C7] **Pushed by Accident: A Mixed-Methods Study on Strategies of Handling Secret Information in Source Code Repositories.** Von Alexander Krause, Jan H. Klemmer, Nicolas Huaman, Dominik Wermke, Yasemin Acar und Sascha Fahl. In: *32nd USENIX Security Symposium (USENIX Security 23)*. Anaheim, CA: USENIX Association, Aug. 2023, S. 2527–2544.
- [C8] **Why Eve and Mallory Still Love Android: Revisiting TLS (In)Security in Android Applications.** Von Marten Oltrogge, Nicolas Huaman, Sabrina Klivan, Yasemin Acar, Michael Backes und Sascha Fahl. In: *Proc. 30th Usenix Security Symposium (SEC'21)*. USENIX, 2021.

Posters

- [P1] **Poster: A Large Scale Investigation of Obfuscation Use in Google Play.** Von Dominik Wermke, Nicolas Huaman, Yasemin Acar, Bradley Reaves, Patrick Traynor und Sascha Fahl. In: *In 26th Annual Network and Distributed System Security Symposium* (Feb. 2019).
- [P2] **Poster: Committed by Accident – Prevention and Remediation Strategies Against Secret Leakage.** Von Alexander Krause, Jan H. Klemmer, Nicolas Huaman, Dominik Wermke, Yasemin Acar und Sascha Fahl. In: *In 43rd IEEE Symposium on Security and Privacy* (Mai 2022).
- [P3] **Poster: Cybercrime in Small and Medium-sized Enterprises.** Von Nicolas Huaman, Alexander Krause, Bennet von Skarczynski, Christian Stransky, Dominik Wermke, Yasemin Acar, Arne Dreißigacker und Sascha Fahl. In: *In Seventeenth Symposium on Usable Privacy and Security* (Aug. 2021).
- [P4] **Poster: Perceptions of Handling Sensitive Data in Cloud Office Applications.** Von Dominik Wermke, Christian Stransky, Nicolas Huaman, Niklas Busch, Alexander Krause, Yasemin Acar und Sascha Fahl. In: *In 41st IEEE Symposium on Security and Privacy* (Mai 2020).
- [P5] **Poster: Project Leine – A Virtualized Study Infrastructure.** Von Dominik Wermke, Nicolas Huaman, Christian Stransky, Yasemin Acar und Sascha Fahl. In: *In 26th Annual Network and Distributed System Security Symposium* (Feb. 2019).
- [P6] **Poster: Pushed by Accident – Prevention and Remediation Strategies Against Secret Leakage.** Von Alexander Krause, Jan H. Klemmer, Nicolas Huaman, Dominik Wermke, Yasemin Acar und Sascha Fahl. In: *In 19th Symposium on Usable Privacy and Security* (Aug. 2023).
- [P7] **Poster: They Would Do Better If They Worked Together The Case of Interaction Problems Between Password Managers and Websites.** Von Nicolas Huaman, Sabrina Klivan, Marten Oltrogge, Yasemin Acar und Sascha Fahl. In: *In Seventeenth Symposium on Usable Privacy and Security* (Aug. 2021).
- [P8] **Poster: They Would Do Better If They Worked Together The Case of Interaction Problems Between Password Managers and Websites.** Von Nicolas Huaman, Sabrina Klivan, Marten Oltrogge, Yasemin Acar und Sascha Fahl. In: *In 43rd IEEE Symposium on Security and Privacy* (Mai 2022).

- [P9] **Poster: Towards Understanding the WhatsApp Dilemma.** Von Christian Stransky, Dominik Wermke, Johanna Schrader, Nicolas Huaman, Anna Lena Fehlhaber, Yasemin Acar und Sascha Fahl. In: *In 28th USENIX Security Symposium* (Sep. 2019).

Journal Papers

- [J1] **They Would Do Better If They Worked Together: Interaction Problems Between Password Managers and the Web.** Von Nicolas Huaman, Sabrina Klivan, Marten Oltrogge, Yasemin Acar und Sascha Fahl. In: *IEEE Security & Privacy* 20.2 (2022), S. 49–60.

Invited Talks

- HFC 2023 Invited Talk about “A Large-Scale Interview Study on Information Security in and Attacks against Small and Medium-sized Enterprises”.
<https://www.hfc-conference.com/copy-of-program-2022>

More on my Website

Academic Services

Conference Activity

2018 – 2024

- SOUPS '24 Mentoring Junior Co-Chair
- PC-Member: USEC 2025, SOUPS Poster 2022
- External/Supporting reviewer: SOUPS '18 Poster Session, USENIX Security '20,21,23,24, ACM CHI '21,22, IEEE S&P '23,24

Education

Leibniz University Hannover

Oct. 2018 – Dec 2024

Promotion Informatik (Doctoral degree Computer Science) – Summa Cum Laude Hannover, Germany

- Thesis: Towards Secure Authentication Standards for End-users, Industry and Academia (DOI: 10.15488/18473)

Saarland University

Oct. 2016 – Dec. 2017

Master of Science in Computer Science

Saarbrücken, Germany

- Thesis: Security Decisions – In-Depth Interviews with Real-World Developers

Saarland University

Oct. 2012 – Oct. 2016

Bachelor of Science in Computer Science

Saarbrücken, Germany

- Thesis: Usability of a Right to be Forgotten

Von Der Leyen Gymnasium Blieskastel

Jul. 2005 – Jun. 2012

Algemeines Abitur

Blieskastel, Germany

Workspaces

Leibniz University Hannover

Jan. 2023 – ongoing

Research Assistant: Google Fellowship – Privacy and Security Full-Time PHD student Hannover, Germany
(Supervisor: Prof. Dr. Fahl)

CISPA Helmholtz Center for Information Security

Feb. 2021 – Dec. 2022

Research Assistant: Full-time PHD student (Supervisor: Prof. Dr. Fahl)

Hannover, Germany

Leibniz Universität Hannover

Research Assistant: Full-time PHD student (Supervisor: Prof. Dr. Fahl)

Jul. 2020 – Jan. 2021
Hannover, Germany

Kriminologisches Forschungsinstitut Niedersachsen

Research Assistant: Project “Cyberattacks in Small- and Medium-Sized Enterprises”

Jan. 2018 – Jun. 2020
Hannover, Germany

CISPA: Center for IT-Security, Privacy and Accountability

Student Research Assistant: Conference Demos and Research

Feb. 2016 – Jul. 2017
Saarbrücken, Germany

Max Plank Institut für Informatik

Student Research Assistant: Image Editing and Conference Demos

Mar. 2013 – Feb. 2016
Saarbrücken, Germany

Skills

Research Areas : Cryptography, Standard development, Web Security, Authentication, Usable Security for Developers

Languages : Python, SQL, JavaScript, Rust, R

Tools : Pandas, Proxmox, QEMU, Kubernetes, AWS, Google Cloud, NGINX & web proxies, statsmodels & scikit-learn

Methods : Interviews, Surveys, Data Analysis, Web Development, UX Design, User Studies

Hobbies : Bouldern, Runs, Cooking & Baking, Pen & Paper (Dungeon & Dragons), Videogames, Boardgames