

Niklas Niere

✉ niklas.niere@upb.de | 🌐 JonSnowWhite | 📍 Paderborn, Germany

Education

PhD Student

Paderborn University

Nov. 2022 – Present
Paderborn, Germany

- Research in TLS Security, Internet Censorship
- Advised by Prof. Dr. Juraj Somorovsky

M.Sc. in IT-Security

Ruhr University Bochum

2022
Bochum, Germany

- Overall Grade: 1.0 - Valedictorian
- Thesis: Analyzing and Circumventing ESNI/ECH-based Censorship, Grade: 1.0

B.Sc. in Computer Science

Paderborn University

2019
Paderborn, Germany

- Overall Grade: 1.3
- Thesis: Evaluating Side-Channel Oracles Using Machine Learning, Grade: 1.0

Publications

Towards Automated DNS Censorship Circumvention

Felix Lange, [Niklas Niere](#), Juraj Somorovsky

Virtual FOCI 2026

Encrypted Client Hello (ECH) in Censorship Circumvention

[Niklas Niere](#), Felix Lange, Nico Heitmann, Juraj Somorovsky

FOCI 2025

I(ra)nconsistencies: Novel Insights into Irans Censorship

*Felix Lange, [Niklas Niere](#), Jonathan von Niessen,
Dennis Suermann, Nico Heitmann, Juraj Somorovsky*

Virtual FOCI 2025

Transport Layer Obscurity: Circumventing SNI Censorship on the TLS-Layer

[Niklas Niere](#), Felix Lange, Robert Merget, Juraj Somorovsky

IEEE S&P 2025

🏆 Distinguished Paper Award

Turning Attacks into Advantages: Evading HTTP Censorship with HTTP Request Smuggling

Philipp Müller, [Niklas Niere](#), Felix Lange, Juraj Somorovsky

FOCI 2024

TLS-Attacker: A Dynamic Framework for Analyzing TLS Implementations

13 authors

ACSAC 2024

🏆 2nd Place Impact Award

Poster: Circumventing the GFW with TLS Record Fragmentation

[Niklas Niere](#), Sven Hebrok, Juraj Somorovsky, Robert Merget

ACM CCS 2023

Academic Positions

FOCI Program Committee	2026 – Present
USENIX Security Artifact Evaluation Committee	2026
USENIX Security External Reviewer	2026
NDSS Artifact Evaluation Committee	2025

Teaching

Theses	2023 – Present
<i>Assistant Advisor</i>	
<ul style="list-style-type: none">• Advised 5 Bachelor's and 9 Master's Theses	
Lecture • Real World Crypto Engineering	2023 – Present
<i>Course Assistant</i>	
<ul style="list-style-type: none">• Organized exercises and exams• Held lectures• Supervised student assistants	
Seminars	2023 – Present
<i>Assistant Advisor</i>	
<ul style="list-style-type: none">• Advised students writing seminar theses in a Bachelor's and a Master's seminar	
Project Group • Building A Network Censor (BANC)	2023
<i>Supervisor</i>	
<ul style="list-style-type: none">• Supervised six students replicating a network censor over a year-long project	

Open-Source Projects

 DPYProxy	2023 – Present
<i>Open-Source Censorship Circumvention Tool</i>	
 Censor-Scanner	2023 – Present
<i>Censorship Resarch Framework</i>	
 TLS-Attacker	2020 – Present
<i>TLS Research Framework</i>	