Curriculum Vitae - Ilya Grishchenko

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Education

Ph.D., Computer Science
Grade: Sehr gut (highest grade). TU Wien, Austria.
M.Sc., Computer Science
Grade: A (highest grade). Saarland University, Germany.

Dissertation

"Static Analysis of Low-Level Code," advisor: Prof. Matteo Maffei.

Research

Postdoctoral Researcher
- with Prof. David Lie, University of Toronto, Canada, 2025-now.
- with Prof. Christopher Kruegel and Prof. Giovanni Vigna, University of California in Santa Barbara, USA, 2021-2025.
- with Prof. Christian Rossow, CISPA, Germany, 2020-2021.

Research Intern
with Prof. Christopher Kruegel and Prof. Giovanni Vigna, University of California in Santa Barbara, USA, 2018-2019.

Ten Selected Peer-reviewed Publications

Zixu Zhou, Xiangyu Guo, Ilya Grishchenko, David Lie. PORTA: Systematic Discovery of Vulnerabilities in Identity Brokers. CCS'26.

Dongyu Meng, Fabio Gritti, Robert McLaughlin, Nicola Ruaro, Ilya Grishchenko, Christopher Kruegel, Giovanni Vigna. Houston: Real-Time Anomaly Detection of Attacks against Ethereum DeFi Protocols. NDSS'2026.

Yuqin Yan, Wei Huang, Ilya Grishchenko, Gururaj Saileshwar, Aastha Mehta, David Lie. Relocate+Vote: Exploiting Ciphertext Side-Channels using Sparsity Information. USENIX Security'25.

Giulio De Pasquale, Ilya Grishchenko, Riccardo Iesari, Gabriel Pizarro, Lorenzo Cavallaro, Christopher Kruegel, Giovanni Vigna. ChainReactor: Automated Privilege Escalation Chain Discovery via AI Planning. USENIX Security'24.

Zihao Su, Kunlin Cai, Reuben Beeler, Lukas Dresel, Allan Garcia, Ilya Grishchenko, Yuan Tian, Christopher Kruegel, Giovanni Vigna. Remote Keylogging Attacks in Multi-user VR Applications. USENIX Security'24.

Nicola Ruaro, Fabio Gritti, Robert McLaughlin, Ilya Grishchenko, Christopher Kruegel, Giovanni Vigna. Not your Type! Detecting Storage Collision Vulnerabilities in Ethereum Smart Contracts. NDSS'24.

Fabio Gritti, Nicola Ruaro, Robert McLaughlin, Priyanka Bose, Dipanjan Das, Ilya Grishchenko, Christopher Kruegel, Giovanni Vigna. Confusum Contractum: Confused Deputy Vulnerabilities in Ethereum Smart Contracts. USENIX Security"23.

Johannes Krupp, Ilya Grishchenko, Christian Rossow. AmpFuzz: Fuzzing for Amplification DDoS Vulnerabilities. USENIX Security'22.

Fabio Gritti, Fabio Pagani, Ilya Grishchenko, Lukas Dresel, Nilo Redini, Christopher Kruegel, Giovanni Vigna. HEAPSTER: Analyzing the Security of Dynamic Allocators for Monolithic Firmware Images. S&P'22.

Clara Schneidewind, Ilya Grishchenko, Markus Scherer, Matteo Maffei. eThor: Practical and Provably Sound Static Analysis of Ethereum Smart contracts. CCS'20.

Grants

2026 ChatGPT for Academic Researchers Grant
Topic: Vulnerability Analysis.
2024 Sui Academic Research Awards Grant
Topic: Security of Sui Package Updates.
2023-2024 Faculty Outreach Grant
Topic: Diversity Driven Tech Education: Empowering High School Students with Computer Science and Cyber Security Education.

Service:

· *TPC*

CCS'27 EuroS&P'27
USENIX'25 RAID'25 DIMVA'25 EuroSec'25
USENIX'24 RAID'24
BAR'23

· *Organizer*

2026 Schwartz Reisman Institute Graduate Symposium

Teaching

Formal Methods for Security and Privacy
Teaching Assistant, TU Wien, 2018.
Security
Teaching Assistant, Saarland University, 2016.
Security and Privacy - A Beginner's Guide
Teaching Assistant, Saarland University, 2014 and 2015.
Language-Based Security
Teaching Assistant, Saarland University, 2013.

Co-Supervision:

· *M.Sc.*

István András Seres, Master's thesis
"A benchmark for formal verification of Ethereum smart contracts,"
Saarland University, 2017.
Inken Hagestedt, Master's thesis
"Static Analysis of Non-interference for Android Apps,"
Saarland University, 2016.
Rapol Tongchenchitt, Master's thesis
"Beyond Information Leakage: Customizable Policy Verification for Android Apps,"
Saarland University, 2016.

· *B.Sc.*

Fineas Florin Silaghi, Bachelor's thesis
"Heap of Treasures - on the allocators bugs hiding in unexplored code,"
West University of Timisoara, 2022.

Mark Schuegraf, Bachelor's thesis
"Dynamic Confirmation of Statically Discovered Information Leaks,"
Saarland University, 2016.

Awards & Scholarships

Schwartz Reisman Institute Postdoctoral Research Fellowship, 2026 and 2025.

Distinguished Artifact Award at USENIX Security, 2024.

PhD with Distinction, TU Wien, 2021.

Best EALPS Paper Award at ETAPS, 2018.

Graduate Scholarship in the Saarbrücken Graduate School of Computer Science, 2013.

International Max Planck Research School for Computer Science Scholarship, 2011.