

Curriculum Vitae - Ilya Grishchenko

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Education

Ph.D., Computer Science

Grade: Excellent (highest grade). TU Wien, Austria, 2021.

M.Sc., Computer Science

Grade: Excellent (highest grade). Saarland University, Germany, 2014.

Diploma, Applied Informatics

Grade: Excellent (highest grade). Orenburg State University, Russia, 2010.

Dissertation

“Static Analysis of Low-Level Code,” advisor: Prof. Dr. Matteo Maffei.

Research

Postdoctoral Researcher

with Prof. Dr. Christopher Kruegel and Prof. Dr. Giovanni Vigna. UC Santa Barbara, USA, 2021-now.

Postdoctoral Researcher

with Prof. Dr. Christian Rossow. CISPA, Germany, 2020-2021.

Research Intern

with Prof. Dr. Christopher Kruegel and Prof. Dr. Giovanni Vigna. UC Santa Barbara, USA, 2018-2019.

Peer-reviewed Publications

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 (forthcoming).

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’23.

Priyanka Bose, Dipanjan Das, Saastha Vasan, Sebastiano Mariani, Ilya Grishchenko, Andrea Continella, Antonio Bianchi, Christopher Kruegel, Giovanni Vigna. COLUMBUS: Android App Testing Through Systematic Callback Exploration. ICSE ’23.

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

Markus Bauer, Ilya Grishchenko, Christian Rossow. TyPro: Forward CFI for C-Style Indirect Function Calls Using Type Propagation. ACSAC’22.

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

Ilya Grishchenko, Matteo Maffei, Clara Schneidewind. A Semantic Framework for the Security Analysis of Ethereum Smart contracts. POST'18.

Stefano Calzavara, Ilya Grishchenko, Adrien Koutsos, Matteo Maffei. A Sound Flow-sensitive Heap Abstraction for the Static Analysis of Android Applications. CSF'17.

Stefano Calzavara, Ilya Grishchenko, Matteo Maffei. HornDroid: Practical and Sound Static Analysis of Android Applications by SMT Solving. EuroS&P'16.

Teaching

Formal Methods for Security and Privacy

Teaching Assitant, 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 Hagedstedt, 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

PhD with Distinction, TU Wien, 2021.

Best EALPS paper award at ETAPS, 2018.

A graduate scholarship in the Saarbrücken Graduate School of Computer Science, 2013.

The International Max Planck Research School for Computer Science scholarship, 2011.

Diploma with Honors, Orenburg State University, 2010.

Summa cum laude (Valedictorian), Orenburg Secondary Comprehensive School, 2005.

Languages

English, German, Russian.