

TOBIAS PULLS

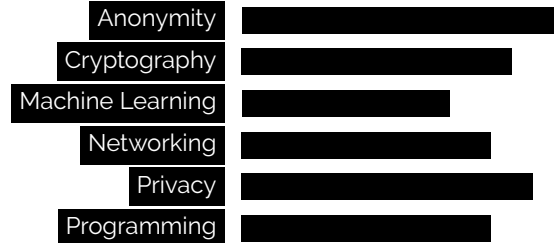
Senior Lecturer

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WHO AM I?

A cybersecurity researcher in the forests of Värmland, Sweden, that cares deeply about privacy and human rights. Working as a senior lecturer in Computer Science at Karlstad University. I have collaborated on a range of topics in research projects funded by EU (H2020, FP6, FP7, TEMPUS), Google, the NLnet Foundation, the Swedish Foundation for Strategic Research, the Swedish Internet Foundation, and the Swedish Knowledge Foundation. An engineer *and* scientist at heart—and trying not to forget that—by building as well as understanding things.



RECENT RESEARCH PROJECTS

- 2019 – 2022 **PAF5G: Performance and Anonymity in Future 5G Networks** Swedish Internet Foundation
(Ab)using multiple network paths for anonymity, traffic analysis attacks and defenses.
- 2019 – 2020 **Padding Machines for Tor** NLnet Foundation
Traffic analysis defenses for Tor's Circuit Padding Framework.
- 2017 – 2021 **PAPAYA: PLATform for PrivAcY preserving data Analytics** EU H2020
Privacy engineering of project dashboards, architecture, security.

SELECTED PUBLICATIONS

- 2021 **Privacy-Preserving & Incrementally-Deployable Support for Certificate Transparency in Tor** PETS
Rasmus Dahlberg, Tobias Pulls, Tom Ritter, and Paul Syverson
- 2020 **Website Fingerprinting with Website Oracles** PETS
Tobias Pulls and Rasmus Dahlberg
- 2017 **The Effect of DNS on Tor's Anonymity** NDSS
Benjamin Greschbach, Tobias Pulls, Laura M. Roberts, Philipp Winter, and Nick Feamster
- 2015 **Balloon: A Forward-Secure Append-Only Persistent Authenticated Data Structure** ESORICS
Tobias Pulls and Roel Peeters

EMPLOYMENT AND EDUCATION

- 2017 – now **Senior Lecturer** Karlstad University, Sweden
Traffic analysis attacks and defenses for Tor, Certificate Transparency, privacy-preserving machine learning, privacy engineering, study program leader, teacher, supervisor (BSc, MSc, PhD).
- 2015 – 2017 **Postdoc** Karlstad University, Sweden
Authenticated data structures, Certificate Transparency, DNS, traffic analysis of Tor.
- 2011 – 2015 **PhD** Karlstad University, Sweden
Cryptography engineering, protocol design, thesis "Preserving Privacy in Transparency Logging".
- 2004 – 2010 **Master of Science** Karlstad University, Sweden

LANGUAGES

Swedish - native
English - proficient
German - beginner

HOBBIES

I love politics, Belgian beer, food, cakes, esports, gaming with friends, and exploring new ideas.

NON PROFIT

I help the Tor Project as a core member and support the Swedish digital rights organization DFRI.