

Stijn Pletinckx

PHD STUDENT · COMPUTER SCIENCE

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<https://scholar.google.com/citations?user=xVsZFkcAAAAJ&hl=en>

Research Overview

My research focuses on the intersection of network security and Internet measurements, often incorporating concepts of web security as well. In general, my work aims to empirically study the Internet landscape within a security context.

Education

University of California, Santa Barbara

DOCTOR IN PHILOSOPHY (PH.D.), COMPUTER SCIENCE

- Advisors: Dr. Christopher Kruegel and Dr. Giovanni Vigna

Santa Barbara, CA, USA

September 2022 - present

Delft University of Technology

MASTER OF SCIENCE, COMPUTER SCIENCE

- Thesis: “Out of Sight, Out of Mind: A Comprehensive Study on the Prevalence and Security Impact of Orphaned Web Page” (Published at CCS’21 [3])
- Advisor: Dr. -Ing Tobias Fiebig

Delft, NL

September 2018 - July 2021

Delft University of Technology

BACHELOR OF SCIENCE, COMPUTER SCIENCE AND ENGINEERING

- Thesis: “Classification of Distributed Strategies for Port Scan Reconnaissance”
- Advisor: Dr. Christian Doerr
- Honours Programme [1], IDEA League Challenge Programme

Delft, NL

September 2015 - August 2018

Publications

- [5] **Pletinckx, S.,** Kruegel, C., & Vigna, G. (2025). **A Large-Scale Measurement Study of the PROXY Protocol and its Security Implications.** Network and Distributed System Security Symposium (NDSS’25). San Diego: Internet Society
- [4] **Pletinckx, S.,** Nguyen, T., Fiebig, T., Kruegel, C., & Vigna, G. (2023). **Certifiably Vulnerable: Using Certificate Transparency Logs for Target Reconnaissance.** IEEE European Symposium on Security and Privacy (EuroS&P’23). Delft: IEEE
- [3] **Pletinckx, S.,** Borgolte, K., & Fiebig, T. (2021). **Out of Sight, Out of Mind: Detecting Orphaned Web Pages at Internet-Scale.** ACM Conference on Computer and Communications Security (CCS’21). Seoul: ACM
- [2] **Pletinckx, S.,** Habben Jansen, G., Brussen, A., & van Wegberg, R. (2021). **Cash for the Register? Capturing Rationales of Early COVID-19 Domain Registrations at Internet-scale.** International Conference on Information and Communication Systems (ICICS’21). Valencia: IEEE
- [1] **Pletinckx, S.,** Trap, C., & Doerr, C. (2018). **Malware Coordination using the Blockchain: An Analysis of the Cerber Ransomware.** IEEE Conference on Communications and Network Security (CNS’18). Beijing: IEEE

Research Experience

University of California, Santa Barbara - Dept of Computer Science

ADVISORS: DR. CHRISTOPHER KRUEGEL AND DR. GIOVANNI VIGNA

- Graduate student researcher working on network security and web security

Santa Barbara, CA, USA

Sep. 2022 - Present

University of California, Santa Barbara - Dept of Computer Science

Santa Barbara, CA, USA

ADVISOR: DR. CHRISTOPHER KRUEGEL AND DR. GIOVANNI VIGNA

Oct. 2021 - Mar. 2022

- Six-month research internship working on the security of certificate transparency logs
- Published at EuroS&P'23 [4]

Delft University of Technology - Dept of Computer Science

Delft, NL

ADVISOR: DR. -ING TOBIAS FIEBIG

Nov. 2020 - Jul. 2021

- Master thesis research working on detecting orphaned web pages in the wild, and assessing their security posture at-scale.
- Published at CSS'21 [3]

Delft University of Technology - Dept of Policy Management

Delft, NL

ADVISOR: DR. ROLF VAN WEGBERG

Feb. 2020 - Nov. 2020

- Investigating website registration trends of COVID-19-related domains, and performing large-scale measurements on their content and behavior.
- Published at ICICS'21 [2]

Delft University of Technology - Dept of Computer Science

Delft, NL

ADVISOR: DR. CHRISTIAN DOERR

Apr. 2018 - Jul. 2018

- Bachelor thesis research analyzing network telescope data to detect patterns of distributed port scans.

Delft University of Technology - Dept of Computer Science

Delft, NL

ADVISOR: DR. CHRISTIAN DOERR

Sept. 2016 - Jul. 2018

- "Honours Programme" research investigating ransomware campaigns and their use of Bitcoin and blockchain technologies.
- Published at IEEE CNS'18 [1]

Awards and Fellowships

2024	Faculty Outreach Grant , University of California, Santa Barbara	\$ 19,989
2022	Academic Excellence Fellowship , University of California, Santa Barbara	\$ 2,000
2018 & 2019	Top 500 Most Ambitious People Under 25 , The Next Web (TNW)	
2018	Best Honours Programme Project University-wide , Delft University of Technology	
2018	Best Honours Programme Project Computer Science , Delft University of Technology	
2017	IDEA League Challenge Programme Scholar , ETH Zurich, Polimi, RWTH, Chalmers, TU Delft	
2016	Honours Programme Scholar , Delft University of Technology	

Grants

Faculty Outreach Grant

\$ 19,989

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

2024

Awarded \$19,989 to develop a High-School education program that teaches Computer Science and Cyber Security skills in the form of CTF challenges.

Teaching and Mentoring

CS177: Computer Security

Santa Barbara, CA

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

Spring 2024

As a Teaching Assistant I was responsible for teaching sections, holding office hours, and answering student questions over email, Slack, and Piazza. The course assignments consisted of CTF challenges on topics such as Network Security, Web Security, Binary Analysis, and Cryptanalysis. I designed and developed a novel assignment/challenge giving students hands-on experience with Amplification Attacks.

School for Scientific thought

Santa Barbara, CA

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

2023 - 2024

Organized a three-session workshop for high school students in Santa Barbara County, teaching introductory concepts of Computer Science, Cyber Security, and Artificial Intelligence. The course focused mainly on solving Capture the Flag (CTF) challenges.

Buddy Project Mentor

DELFT UNIVERSITY OF TECHNOLOGY

Providing guidance to students with a development disorder through weekly 1-on-1 sessions in which they get help with improving study and planning strategies.

Delft, NL

2018 - 2019

Computer Science Program Mentor

DELFT UNIVERSITY OF TECHNOLOGY

Assisting first-year Computer Science and Engineering students in transitioning from high school to university. I organized weekly meetings for 2 groups of 12 students, having supervised 72 students in total over the course of my program.

Responsibilities included: monitoring progress of the students, providing individual assistance where needed, and reporting on feedback of the students about the curriculum

Delft, NL

2016 - 2019

References

- Giovanni Vigna (vigna@ucsb.edu)
Professor of Computer Science at University of California, Santa Barbara
- Christopher Kruegel (chris@cs.ucsb.edu)
Professor of Computer Science at University of California, Santa Barbara
- Tobias Fiebig (tfiebig@mpi-inf.mpg.de)
Researcher at Max Planck Institute for Informatics
- Kevin Borgolte (kevin@iseclab.org)
Professor of Software Security at Ruhr University Bochum
- Christian Doerr (christian.doerr@hpi.de)
Professor of Cyber Security at Hasso Plattner Institute