

José Jair Cardoso de Santanna

Enthusiastic Researcher, Internet Security Specialist and (Big) Data Analyst

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Languages

Dutch ★★☆☆☆

English ★★★★★

Portuguese ★★★★★

Status and Professional Objective

I am currently assistant professor at University of Twente, I provide technical support to the Team High Tech Crime Unit Police on digital forensics, and I am the product manager of the Dutch DDoS Clearing House (a coalition of 25 players from industry (ISPs, xSPs, IXPs, banks, not-for-profit DPS) and gov't (ministries and agencies)). A Ph.D. degree means: capacity to think analytically and abstractly to solve complex problems. In the period between 2013 and 2017, I was a Ph.D. candidate at the same university. A number of solutions proposed in my Ph.D. thesis were deployed by network operators worldwide and some methodologies will be used by the Dutch High Tech Crime Unit. During my Ph.D., I also acted as technical advisor to the Dutch National Cyber Security Center and to the Japanese Ministry of Internal Affairs and Communications, both on the topic of Cyber Security and DDoS attacks. I presented my work in more than 30 countries. In 2018, I won a national competition as "the best science communicator of The Netherlands" and I was elected as one of the best lectures of the computer science faculty in the University of Twente. My professional objective is to improve the security in all types of computer networks, especially the Internet by transferring my enthusiasm, knowledge, skills and experience into high impact solutions.

Education

- 2013–2017 **Doctor** in Computer Science University of Twente, The Netherlands
"DDoS-as-a-Service—Investigating Booter Websites".
Supervisor: Prof. Dr. Ir. Aiko Pras
This work has being used by both the security community and by network operators worldwide. One of the outcomes that stands out is publicly available at 'booterblacklist.com' and already downloaded by more than three thousand users worldwide.
- 2010–2012 **Master** in Computer Science Federal University of Rio Grande do Sul, Brazil
"A BPM-based Solution for Inter-domain Circuit Management".
Supervisor: Prof. Dr. Lisandro Zambenedetti Granville
The outcome of this work is still in production used by the Brazilian National Education and Research Network and available at 'meican.cipo.rnp.br'.
- 2005–2010 **Bachelor** in Computer Engineer Federal University of Pará, Brazil
"A Comparative Evaluation of DCCP Protocol in Mesh Networks."
Supervisor: Dr. Kelvin Lopes Dias

Experience

Product Owner

2018–current **The DDoS Clearing House**

Funded by: a coalition of 25 players from industry (ISPs, xSPs, IXPs, banks, not-for-profit DPS) and gov't (ministries and agencies)

Project Leader

2017–current **Collecting, Transforming, Applying, and Disseminating DDoS Attack Knowledge**

€200k Funded by: SIDN funds

2018–2019 **Online Discoverability and Vulnerabilities of ICS/SCADA Devices in the Netherlands**

€80k Funded by: Wetenschappelijk Onderzoek- en Documentatiecentrum (WODC)

Task Leader

2019–2023 **Cybersecurity Competence for Research and Innovation (CONCORDIA)**

€16M Funded by: the European Framework Programme for Research and Innovation

Responsible to lead 42 partners on the investigation of network-centric security solutions for Europe.

Technical Advisor

2019–2019 **To the *Nationale Beheersorganisatie Internet Providers (NBIP)* and the *Stichting Internet Domeinregistratie Nederland (SIDN)*** The Netherlands

Report on: “The impact of DDoS attacks on Dutch enterprises.”

2016–2016 **To the Yokohama National University** Japan

For the production of a report on “Reflection & Amplification DDoS attacks” requested by the *Japanese Ministry of Internal Affairs and Communications*.

2016–2016 **To the Dutch National Cyber Security Center and the Scientific Research & Documentation Center** The Netherlands

For the production of a report on “Cyber metrics 2016: DDoS and Malware” requested by the *Dutch Ministry of Security and Justice*.

Lecturer

2012–2013 **University of Santa Cruz do Sul (UNISC)** Santa Cruz do Sul, Brazil

Tasks & Responsibilities: Supervise students and teach (integrally) the courses:

- **Digital Systems;**
- **Computer Networks; and**
- **Network Management.**