

José **Jair** Cardoso de Santanna

Cloud Security Lead, Cyber Security Specialist, (Big) Data Analyst and Researcher

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Languages

Dutch ★★☆☆☆

English ★★★★★

Portuguese ★★★★★

Status and Professional Objective

I am currently leading the cloud security division at Northwave, which is an ambitious great Dutch security company. In addition to that I am one-day assistant professor at University of Twente. I've got a Ph.D. degree, which means, in short, that I have enough capacity to think analytically and abstractly to solve complex problems. In 2018, I won a national competition as "the best science communicator of the Netherlands". In the same year, I was selected among the top 15 young engineers of the Netherlands. My professional objective is to improve the security in all types of computer networks 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

Cloud Security Leader

2019–now **Northwave BV** Utrecht, The Netherlands

Assistant Professor

2017–2019 **University of Twente** Enschede, The Netherlands
Tasks & Responsibilities: teach, supervise students, lead projects, submit project proposals, review academic papers and journals, and perform own research.

Project Leader

2017–2019 **Collecting, Transforming, Applying, and Disseminating DDoS Attack Knowledge**

@University of Twente

Funded by: SIDN fonds

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

@University of Twente

Funded by: Wetenschappelijk Onderzoek- en Documentatiecentrum (WODC)

Task Leader

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

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

2017–now **To the *Team High Tech Crime* (THTC) police unit** The Netherlands

On: “DDoS attacks” and “Booters, Stressers, and DDoS-for-hire”

2019–2019 **To *Logius*, the digital government service of the Netherlands Ministry of the Interior and Kingdom Relations (BZK)** The Netherlands

Report on: “Assessing Logius’ Quality Peering Platform (KPP) Against DDoS Attacks”

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.**

Guest Lecturer

- 2015–2019 **Cybercrime & Cybersecurity (minor)** University of Twente, The Netherlands
Course: Introduction to Network Forensics
Audience: bachelor students from University of Twente, European Research Center for Information (ERCIS), Westfälische Wilhelms □ Universität Münster, Universität Innsbruck, and University of Leicester.
- 2016–2019 **Network Management** University of Twente, The Netherlands
Lectures: (1) “SNMPv1, v2, v3 and Beyond” and (2) “Network management based on WebServices”
Audience: master students of computer science, electrical engineer, and telematics from the University of Twente.
- 2015–2019 **Network Security** University of Twente, The Netherlands
Lecture: “DDoS attacks into the Matrix”
Audience: master and bachelor students of computer science, electrical engineer, and telematics from the University of Twente, 3TU cyber security, and members of ICT labs.
- 2015 & 2016 **Product Design to Online Business** University of Twente, The Netherlands
Lectures: (1) “Booters: the DDoS-as-a-Service phenomenon” and (2) “Product Design to Online Business”
Audience: bachelor students of industrial engineering and business information technology.

Student Supervisor

- [Ph.D Degree] Tatiana Nasciment Hein (ongoing) and Juan Vanerio (ongoing).
- [M.Sc. Degree] Huub van Wieren, Joeri Kock, Shridhar Bangalore, Jessica Conrads, Kareem Fouda, Justyna Chromik, Wouter de Vries, Joey de Vries, Mark Wierbosch, and Jarmo van Lenthe.
- [B.Sc. Degree] Koen van Hove, Calvin Hendriks, Roeland Krak, Max Kerkers, Dirk Maan, Jochum Börger, and Guilherme Dressler.

Presentations

**Top 5 last presentations.*

Invited	The Biggest Dutch Digital Experts Conference (DEX-XL)	2019
Invited	Stichting Nationaal Informatica Congres	2019
Invited	TEDx Talk Youth AnnaVanRijnCollege	2019
Invited	ONE conference	2019
Abstract	ONE conference	2018

Rewards & Awards

2018	Best Science Communicator of the Netherlands	FAMELab
2018	Among the 15 Best Young Engineers of the Country	Het Koninklijk Instituut Van Ingenieurs
2016	Best Poster Presentation	2nd Cyber Security Workshop in the Netherlands
2016	ACM SIGCOMM Travel Grant	Internet Measurement Conference (IMC)
2016	IFIP/DMTF Travel Grant	Conference on Network and Service Management (CNSM)
2016	Invited to the Dagstuhl Seminar 16361	on Security Challenges and Opportunities of SDN
2015	Best Paper Award	Autonomous Infrastructure, Management and Security Conference
2015	Best Ph.D. 'Elevator Pitch' (1st Place)	CTIT Symposium, University of Twente
2015	Best Poster Presentation (3rd Place)	CTIT Symposium, University of Twente
2015	Invited to the Dagstuhl Seminar 16012	on Global Measurements
2010	Student Award (3rd Place)	Computer Engineer, Federal University of Pará, Brazil