

José Jair Santanna

Enthusiastic, Teacher, Researcher, Network Security Specialist & (Big) Data Analyst

Contact

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More Information



jairsantanna.com



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Languages

Dutch ★★☆☆☆

Spanish ★★★★★

English ★★★★★

Portuguese ★★★★★

Professional Objective

I am currently a PhD candidate at University of Twente with already a postdoctoral contract starting right after I achieve the Doctor degree (march 2017). My research is founded by the European commission and by the Dutch national Organisation for Scientific Research (NWO). Some results of my PhD research has already achieved recognition in the national and international level, for example I had the opportunity to advise both the Japanese Ministry of Internal Affairs and Communications and the Dutch National Cyber Security Center on the topic of cyber security.

My professional objective is to become a recognized researcher and professor in network management and security. On top of that I am eager to make my name and the name of the academic institution that I am part of as a worldwide reference in cyber security. I aim to transfer my enthusiasm, knowledge, skills and experience into meaningful innovation to improve the security in all types of networks, specially in the Internet.

Education

2013–mar/2017* **Doctor** in Computer Science

University of Twente, The Netherlands

"The DDoS as a Service Phenomenon".

This ongoing work have being used by both the security community and by network operators. One of the outcomes that stands out is publicly available at 'booterblacklist.com' and was already downloaded by more than four hundred users worldwide.

Supervisor: Prof. Dr. Ir. Aiko Pras

2010–2012

Master in Computer Science

Federal University of Rio Grande do Sul, Brazil

"A BPM-based Solution for Inter-domain Circuit Management".

The outcome of this work is still in production used by the Brazilian National Education and Research Network (Link: <http://meican.cipo.rnp.br/>).

Supervisor: Prof. Dr. Lisandro Zambenedetti Granville

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

Technical Adviser

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

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*.

Assistant Professor

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

2016	Network Management	University of Twente, The Netherlands
	Title: SNMPv1, v2, v3 and Beyond (a very practical lecture)	
	Audience: master students of computer science, electrical engineer, and telematics from the University of Twente.	
2016	Network Management	University of Twente, The Netherlands
	Title: Network management based on WebServices	
	Audience: master students of computer science, electrical engineer, and telematics from the University of Twente.	
2015 & 2016	Product Design to Online Business	University of Twente, The Netherlands
	Audience: bachelor students of industrial engineering and business information technology.	
2015	Network Security	University of Twente, The Netherlands
	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	Cybercrime & Cybersecurity (minor)	University of Twente, The Netherlands
	Audience: bachelor students from University of Twente, European Research Center for Information (ERCIS), Westfälische Wilhelms - Universität Münster, Universität Innsbruck, and University of Leicester.	

Student Supervisor

Among 10 supervised students: 5 decided to follow towards the next academic degree[*], PhD or MSc, 2 received the MSc degree cum laude[+], 2 won the best paper award in international conferences[#], and 1 won the second place of a renowned Dutch national prize (KIVI/Defensie & Veiligheid) for her thesis[!].

[M.Sc. Degree] **Justyna Chromik**[* + # !] , **Wouter de Vries**[* #], **Joey de Vries**[+], **Mark Wierbosch**, and **Jarmo van Lenthe**.

[B.Sc. Degree] **Roeland Krak**[*], **Max Kerckers**[*], **Dirk Maan**[*], **Jochum Börger**, and **Guilherme Dressler**.

International Conference Reviewer

Among more than 20 venues acting as reviewer we highlight four conferences which are the top well ranked related to the Committee on Network Operation and Management (CNOM), which is a renowned technical committee part of the IEEE Communications Society. For each conference we present the acronym, the full name, the acceptance rate which is the number of papers submitted divided by published* (according www.cs.ucsb.edu/~almeroth), and the h-index* (according Google scholar). For the entire list of conference that I was reviewer you can check my records on the known conference management systems, i.e., EDAS [link], JEMS [link], and EasyChair [link].

CNSM	International Conference on Network and Service Management	17.6% 18
NETWORKING	IFIP Networking	23.8% 22
IM	IFIP/IEEE Integrated Management	27.2% 18
NOMS	IEEE/IFIP Network Operations and Management Symposium	28.9% 22

*last checked: April 7, 2016

Conference Organizer

2016	Shadow Technical Program Committee (TPC) IFIP/IEEE International Conference on Network and Service Management (CNSM) is the premier annual single-track conference in the general area of network and service management. A shadow TPC is a experimental initiative to make PhD researchers better TPCs in the future. The reviews are considered as normal a TPC review.	CNSM
2013-2016	Technical Program Committee (TPC) Escola Regional de Redes de Computadores, a conference for undergrad students from the south of Brazil.	ERRC
2012	Local Organizing Committee IEEE Latin American Conference on Cloud Computing and Communications	LatinCloud
2010	Local Organizing Committee The Brazilian Symposium on Computer Networks and Distributed Systems.	SBRC

Software Developer

2015–Now	Distributed Denial of Service Attacks Database (DDoSDB) Link: http://www.ddosdb.org An initiative to develop the largest open database with DDoS attacks. Languages: Python, Bash, Pig Latin & Apache Impala	
2010–2011	Management Environment of Inter-domain Circuits for Advanced Networks (MEICAN) Link: http://meican.cipo.rnp.br/ Development of an Executable Network Management Policies Editor sponsored by the Brazilian National Education and Research Network (RNP). Language: WS-BPEL	
2009	Support for Planning Sustainable Electrical Power Generation via Vegetable Oil. Desktop application part of a Ph.D. thesis [link] sponsored by a subsidiary (Eletronorte) of the major Brazilian power utility (Eletrobrás). Language: C#.Net & MySQL	

Awards

2015	Best Ph.D. 'Elevator Pitch' (1st Place)	CTIT Symposium, University of Twente
2015	Best Poster (3rd Place)	CTIT Symposium, University of Twente
2015	Best Paper Award	Autonomous Infrastructure, Management and Security Conference
2015	Top Papers Nomination	Brazilian Symposium on Computer Networks and Distributed Systems
2010	Student Award (3rd Place)	Computer Engineer, Federal University of Pará, Brazil

Presentations

More than 30 presentations in the last 3 years (available on my slideshare.net/jjcsantanna), among those I highlight:

- 2015 **Invited presentation** at Logius (part of the Dutch Ministry of the Interior and Kingdom Relations).
- 2015 **Invited Presentation** to the Dutch National Management Organization of Internet Providers (NBIP).
- 2015 **Invited Presentation** to the Dutch National Cyber Security Centrum (NCSC).
- 2013 & 2015 **Presentation** at the 31th and 36th IRTF Network Management Research Group (NMRG).

Capacity to Stablish Collaboration

Booking.com, NationaleBeheersorganisatieInternetProviders(NBIP), fox-it.com, quarantain
SURFNet, CESNET, RIPENCC

Scientific Appendix

Publications