

## Curriculum vitæ

### Personal Information

### Work experience

Dates  
Occupation or position held  
Name and address of employer  
Main activities and responsibilities

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### Research Lab director & Chair Professor

Name	Dario ROSSI	Date of Birth	27/03/1977
Phone	+33.(0)7.77.20.24.33 (work)	Nationality	Italian, French
e-mail	dario.rossi@huawei.com	Address	75015 Paris, France
Web 	<a href="https://nonsns.github.io">https://nonsns.github.io</a>	 Extended academic CV 	

#### July 2019 - present




**DataCom AI CTO and Director, DataCom Lab, Paris Research Center**

**Huawei Technologies, co. Ltd 92100 Boulogne-Billancourt, France**



#### Main responsibilities:

- DataCom Lab Director: lead a 6-teams lab with experts in expert in machine learning, performance evaluation, operation research, operating system, network architectures and system design.
- DataCom AI CTO: lead a multi-site team of AI researchers, defines and plans research strategy for AI in Huawei DataCom business unit

#### Publicly accessible achievements:

- Author of 15+ patents, 200+ papers ([full list](#) )
- Publications include top tier venues (ACM SIGCOMM, IEEE INFOCOM, ACM CoNEXT, IEEE/ACM ToN, IEEE JSAC, IEEE TMM), attracted 7000+ citations for an H-index of 40+ (Google Scholar ) , and had impact on IETF normalization (LEDBAT WG)
- Steering/Program Committees of 70+ international conferences (incl. ACM SIGCOMM, IEEE INFOCOM, ACM CoNEXT) and Editorial/Review board for 15+ journals ([full list](#) )

#### Awards:

- ★ *Career awards* ([full list](#) ): IETF Applied Network Research Prize (2016), Google Faculty Research Award (2015), IEEE INFOCOM Distinguished Member (2015, 2016, 2017 and 2019)
- ★ *Paper awards* ([full list](#) ): IEEE ComSoc/ISOC Internet TC Award (2016-2017), Best paper at IFIP NTMS'12, TRAC'14, TRAC'15, SIGCOMM InternetQoE'16, NOSSDAV'18, ITC'20, best paper runner up at ITC'13 and ITC'16. Best poster at TMA'16 and Best dataset at PAM'18.

#### November 2018 - June 2019

**Network AI Research Team Leader, Mathematical and Algorithmic Sciences Lab**

**Huawei Technologies, co. Ltd 92100 Boulogne-Billancourt, France**

#### September 2012 - January 2019

**Professor, Laboratoire d'Informatique de l'X (LIX)**

**École Polytechnique, 91128 Palaiseau, France**

Course on Network Security (INF586) and Peer-to-peer networking and applications (INF570)

#### January 2012 - October 2018

**Cisco's Chair Professor, Computer Science and Networking Department (INFRES)**

**Telecom ParisTech, 46 rue Barrault, F-75634 Paris, France**

#### October 2006 - December 2011

**Associate Professor (HDR), Computer Science and Networks Department (INFRES)**

**Telecom ParisTech, 46 rue Barrault, F-75634 Paris, France**

#### January 2005 – September 2006

**PostDoc Research Engineer**

**Politecnico di Torino – 24, C.so Duca degli Abruzzi, 10129, Torino, Italy**

Development of a technique for the identification of Skype traffic, funded by Vodafone Group

#### August 2003 – August 2004

**Research Engineer**

**University of California, Berkeley, CA94720-1776, USA**

Definition and analysis of high-performance algorithms for Distributed Hash Tables.

#### January 2001 – July 2003, and September 2004 – December 2004

**Research Engineer**

**Politecnico di Torino – 24, C.so Duca degli Abruzzi, 10129, Torino, Italy**

Development of a traffic measurement tool <http://tstat.tlc.polito.it>

## Education and training

Title of qualification awarded

Title of qualification awarded

Dates

Title of qualification awarded

Name and type of organization

Dates

Title of qualification awarded

Name and type of organization

HDR Thesis Title

Dates

Title of qualification awarded

Name and type of organization

PhD Thesis Title

Dates

Title of qualification awarded

Dates

Title of qualification awarded

Name and type of organization

MSc Thesis Title

Notes

## Personal skills

Mother tongue(s)

Other languages

Self-assessment  
European level<sup>(\*)</sup>

French

English

Social skills

Scientific and Computer skills

Sports and Interests

Driving licences

ACM Senior Member (2015)

IEEE Senior Member (2012)

February 2012

Professorship Habilitation (Qualification au Corps des Professeurs des Universités)

Conseil Nationale des Universités (CNU), Section 27 Informatique (n.12127228639; Feb 2nd, 2012)

December 2010

HDR Abilitation (Habilitation à Diriger des Recherches)

Université Pierre et Marie Curie (UPMC), 4 place Jussieu 75252, Paris, France

*P2P Networking: The Dawn of the Homo Interconnexus Era*

April 2005

PhD in Electronic and Telecommunication Engineering

Politecnico di Torino – 24, C.so Duca degli Abruzzi, 10129, Torino, Italy

*Traffic at the Network Edge: Sniff, Analyze, Act*

January 2002

Qualifying examination to Engineers Register (Esame di Stato)

November 2001

MSc in Telecommunication Engineering (Laurea degree)

Politecnico di Torino – 24, C.so Duca degli Abruzzi, 10129, Torino, Italy

*A Simulation Study of Web Traffic over DiffServ Networks*

- Thesis developed with NEC Europe Ltd. – 36, Kurfürsten-Anlage, Heidelberg, Germany.
- Project Socrates–Erasmus (1999 – 2000), at Institut Supérieur d'Électronique du Nord (ISEN)

## Italian

French Living in France since 2006.

English One-year stay in Berkeley, CA (USA) for work purposes. First Certificate in English (FCE), University of Cambridge, UK (1995). Five years of study at the British Churchill Center.

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

Living in several countries worldwide contributed to both my adaptability to diverse environments and my communication skills; the teaching experience refined the latter. Good propensity to project management and group work, gained throughout leadership in several international projects.

Visit my personal [webpage](#), or [GitHub](#) for more!

- **Machine learning.** Supervised classification, unsupervised clustering, stream-learning, forecast and regression, rule-based and reinforcement learning. (Hate but can do) feature selection.
- **Network science.** Control theory, stochastic modeling, monte-carlo & event-driven simulation.
- **Operating Systems.** Linux, Unix and TinyOS (power user and development), Windows (user).
- **Programming Languages.** C/C++, Perl, Python, bash, nesC, Tcl/Tk, Awk, Php, CGI, Ruby
- **Scientific Tools.** Octave, Weka, R, Mathematica and CPLEX; ns2, Omnet++ and TOSSIM;
- **Publishing.** L<sup>A</sup>T<sub>E</sub>X, Jekyll, Markdown, graphical (Gimp, Inkscape, Gnuplot, D3.js) and Office.
- **Open-source software developed (a selection)**
  - ☞ **Telemetry:** an unsupervised stream-learning clustering algorithm for anomaly detection
  - ☞ **ccnSim:** ccnSim is a scalable Information centric network simulator with 4000+ downloads
  - ☞ **WebQoE:** our award-winning project on inferring Web users Quality of Experience
  - ☞ **iGreedy:** our award-winning project on IPv4 anycast detection and geolocation
  - ☞ **LEDBAT:** open source implementation of the BitTorrent congestion control protocol
  - ☞ **LEDBAT+AQM:** Solving the reprioritization issue arising LEDBAT and AQM
  - ☞ **Tstat:** Traffic analyzer tool with traffic classification capabilities, 30000+ download so far.

Ski, basket, hiking, reading, watching OV movies, (HDR) photography (before it was a commodity) and playing guitar (a decade ago, when I had no kids and some spare time)

Italian (Italy, 1996), California (CA, USA, 2003) and French (2016) Driving Licenses