

## Curriculum vitæ

### Personal Information

### Work experience

Jul 2019 – now

Employer

Main responsibilities

Nov 2018 – Jun 2019

Employer

Sep 2012 – Jan 2019

Employer

Main responsibilities

Oct 2016 – Oct 2018

Jan 2012 – Oct 2016

Oct 2006 – Dec 2011

Employer

Main responsibilities

Jan 2005 – Sep 2006

Employer

Main responsibilities

Aug 2003 – Aug 2004

Employer

Main responsibilities

Jan 2001 – Dec 2004

Employer

Main responsibilities

### Education and qualifications

2015

## Research Lab Director & Chair Professor with MSc, PhD and HDR degrees

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>		<a href="#">Extended academic CV</a>

**DataCom AI4NET CTO and DataCom Lab Director**, Paris Research Center

**Huawei Technologies SASU**, 92100 Boulogne-Billancourt, France

**DataCom Lab Director**: leading and managing a 6-teams lab, with experts in: machine learning, performance evaluation, operation research, operating system, network measurement and protocol design.

**DataCom AI4NET CTO**: lead a multi-site team of AI researchers, defining, planning and executing the AI research strategy for Huawei DataCom business unit, for successful transfer to products.

#### Publicly accessible achievements:

- Author of 15+ patents, 200+ papers ([full list](#)) that received several awards and attracted 7000+ citations, for an H-index of 40+ (Google Scholar)
- Publications include top-tier machine learning (ICDM, ICML, KDD, WWW, IJCAI) and networking (SIGCOMM, CoNEXT, INFOCOM, IMC) conferences and journals (ToN, JSAC, TMM).

#### 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 Internet TC Award (2016-2017), Best paper at NTMS (2012), TRAC (2014-2015), SIGCOMM InternetQoE (2016), NOSSDAV (2018), ITC (2020), runner up at ITC (2013) and ITC (2016). Best poster TMA (2016) and dataset at PAM (2018).

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

**Huawei Technologies SASU**, 92100 Boulogne-Billancourt, France

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

**École Polytechnique**, 91128 Palaiseau, France

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

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

**Full Professor**, Computer Science and Networking Department (INFRES)

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

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

#### Technical leader and manager of a research team:

- Lead of Cisco's Chair NewNet@Paris, direct reporting to CTO and VP level.
- Principal investigator for several projects (2 × FP7, 3 × Celtic, 2 × ICT Digital and 1 × ANR)
- Advisor of 21 PhDs, 9 PostDoc and several undergraduate students
- Coordinator of IMT RT2 Networking research (70+ researchers from 5 institutions)
- Elected member of the Conseil de Labo (LTCI), member of the LINCBS Bureau
- Steering/Program Committees of 70+ international conferences (incl. ACM SIGCOMM, IEEE INFOCOM, ACM CoNEXT) and Editorial/Review board for 15+ journals ([full list](#))
- Responsible for several courses (RES203, RES212, RES224, RES240) at graduate and undergraduate levels, in French and English

**PostDoc Researcher**, Electronics Engineering Department (DELEN)

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

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

**Visiting Research Engineer**, Electrical Engineering and Computer Science (EECS)

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











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

**Research Engineer**, Electronics Engineering Department (DELEN)

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

PhD studies, revolving around traffic measurement tool <http://tstat.tlc.polito.it>

### ACM Senior Member

2012	IEEE Senior Member																																						
Feb 2012	Qualification au Corps des Professeurs des Universités (CNU Qualification for Full Professor)																																						
Institution	Conseil Nationale des Universités (CNU), Section 27 Informatique (n.12127228639)																																						
Dec 2010	Habilitation à Diriger des Recherches (HDR in Computer Science)																																						
Institution	Université Pierre et Marie Curie (UPMC), 4 place Jussieu 75252, Paris, France																																						
HDR Thesis Title	P2P Networking: The Dawn of the Homo Interconnexus Era																																						
Apr 2005	Dottorato in Ing. Elettronica e delle Telecomunicazioni (PhD in Electronics Engineering)																																						
Institution	Politecnico di Torino, C.so Duca degli Abruzzi 24, 10129, Torino, Italy																																						
PhD Thesis Title	Traffic at the Network Edge: Sniff, Analyze, Act																																						
Mar 2002	University-level Teaching Qualification (Cultore della Materia)																																						
Institution	Politecnico di Torino, C.so Duca degli Abruzzi 24, 10129, Torino, Italy																																						
Jan 2001	Esame di Stato, Professione di Ingegnere (Qualifying examination to Engineers Register)																																						
Institution	Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR), Trastevere 76/a, 00153 Roma, Italy																																						
Nov 2001	Laurea in Ingegneria delle Telecomunicazioni (MSc in Telecommunication Engineering)																																						
Institution	Politecnico di Torino, C.so Duca degli Abruzzi 24, 10129, Torino, Italy																																						
MSc Thesis Title	A Simulation Study of Web Traffic over DiffServ Networks																																						
Notes	<ul style="list-style-type: none"><li>• Thesis developed with NEC Europe Ltd. – 36, Kurfürsten-Anlage, Heidelberg, Germany.</li><li>• Project Socrates–Erasmus (1999 – 2000), at Institut Supérieur d'Électronique du Nord (ISEN)</li></ul>																																						
Personal skills																																							
Mother tongue(s)	Italian																																						
Other languages	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.																																						
Self-assessment																																							
European level <sup>(*)</sup>	<table><tr><th colspan="4">Understanding</th><th colspan="4">Speaking</th><th colspan="2" rowspan="2">Writing</th></tr><tr><th colspan="2">Listening</th><th colspan="2">Reading</th><th colspan="2">Spoken interaction</th><th colspan="2">Spoken production</th></tr><tr><td>C1</td><td>Proficient user</td><td>C1</td><td>Proficient user</td><td>C1</td><td>Proficient user</td><td>C1</td><td>Proficient user</td><td>C2</td><td>Proficient user</td></tr><tr><td>C1</td><td>Proficient user</td><td>C1</td><td>Proficient user</td><td>C1</td><td>Proficient user</td><td>C1</td><td>Proficient user</td><td>C2</td><td>Proficient user</td></tr></table> <sup>(*)</sup> Common European Framework of Reference (CEF) level	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
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French																																							
English																																							
Social skills	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.																																						
Scientific and Computer skills	Visit my personal  webpage, or  for more! <ul style="list-style-type: none"><li>• <b>Machine learning.</b> Supervised classification, unsupervised clustering, stream-learning, forecast and regression, rule-based and reinforcement learning. (Hate but can do) feature selection.</li><li>• <b>Network science.</b> Control theory, stochastic modeling, monte-carlo &amp; event-driven simulation.</li><li>• <b>Operating Systems.</b> Linux, Unix and TinyOS (power user and development), Windows (user).</li><li>• <b>Programming Languages.</b> C/C++, Perl, Python, bash, nesC, Tcl/Tk, Awk, Php, CGI, Ruby</li><li>• <b>Scientific Tools.</b> Octave, Weka, R, Mathematica and CPLEX; ns2, Omnet++ and TOSSIM;</li><li>• <b>Publishing.</b> , Jekyll, Markdown, graphical (Gimp, Inkscape, Gnuplot, D3.js) and Office.</li><li>• <b>Open-source software developed (a selection)</b><ul style="list-style-type: none"><li> <b>Telemetry</b>: an unsupervised stream-learning clustering algorithm for anomaly detection</li><li> <b>ccnSim</b>: ccnSim is a scalable Information centric network simulator with 4000+ downloads</li><li> <b>WebQoE</b>: our award-winning project on inferring Web users Quality of Experience</li><li> <b>iGreedy</b>: our award-winning project on IPv4 anycast detection and geolocation</li><li> <b>LEDBAT</b>: open source implementation of the BitTorrent congestion control protocol</li><li> <b>LEDBAT+AQM</b>: Solving the reprioritization issue arising LEDBAT and AQM</li><li> <b>Tstat</b>: Traffic analyzer tool with traffic classification capabilities, 30000+ download so far.</li></ul></li></ul>																																						
Sports and Interests	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)																																						
Driving licences	Italian (Italy, 1996), California (CA, USA, 2003) and French (2016) Driving Licenses																																						