

## Curriculum vitæ

### Personal Information

### Work experience

Dates

Occupation or position held

Name and address of employer

Main activities and responsibilities

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Occupation or position held

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Main activities and responsibilities

Dates

Occupation or position held

Name and address of employer

Main activities and responsibilities

### Education and training

Title of qualification awarded

Title of qualification awarded

### Research team leader & 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@huwaei.com	Address	75015 Paris, France
Web	<a href="https://nonsns.github.io">https://nonsns.github.io</a>		<a href="#">Extended academic CV</a>

#### November 2018 - present

##### Chief Expert, Mathematical and Algorithmic Sciences Lab

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

##### Main responsibilities:

- Leader of a team of researchers
- Expert in machine learning, statistical inference, performance evaluation, traffic characterization, network architectures, very large-scale simulation and experiments, system design.
- Author of 8 patents, 150+ papers ([full list](#))
- Publications include top tier venues (ACM SIGCOMM, IEEE INFOCOM, ACM CoNEXT, IEEE/ACM ToN, IEEE JSAC, IEEE TMM), attracted 5000+ citations for an H-index of 35+ (Google Scholar), and had impact on IETF normalization (LEDBAT WG)
- Participation to the Steering committee/Program Chair/Technical Program Committees of 70+ international conferences (incl. ACM SIGCOMM, IEEE INFOCOM, ACM CoNEXT) and to the 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 Technical Committee Award (2016-2017), Best paper at IFIP NTMS'12, TRAC'14, TRAC'15, SIGCOMM InternetQoE'16, NOSSDAV'18, runner up at ITC'13 and ITC'16. Awarded best poster at TMA'16 and Best dataset at PAM'18.

#### September 2012 - present

##### 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>

**ACM Senior Member (2015)**

**IEEE Senior Member (2012)**

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

## 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 the Cisco's [NewNet@Paris](#) Chair 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.**  $\LaTeX$ , 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