

# Luca Vettori, MSc *Researcher and Software Engineer*

📍 Barcelona (Spain)

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🌐 <https://www.linkedin.com/in/lucavettori/>

🔖 Google Scholar



## Profile

Telecommunications Engineer with extensive R&D and software development experience (10+ years). Currently pursuing a PhD in Signal Theory and Communications at UPC, focusing on **Optical SDN, Network Virtualization, and Orchestration**.

## Relevant Experience

### Researcher and Software Engineer @ CTTC 📍 | Barcelona, Spain

Aug 2017 - Present

- Currently, **Researcher (R2)** in Packet Optical Networks and Services (PONS) Research Unit.
- NFVI and System Administrator for the PARADIGMS testbed, overseeing platform instance management using Linux, OpenStack, Kubernetes, and automation tools.
- Software Engineer and System Administrator role inside the Optical Networks and Systems RU.
- Software Engineering based on Python libraries and scripting technologies to achieve the development of hardware and software test-beds.
- Research activity focused on SDN/NFV, Network Virtualization and Network Orchestration within the H2020 European Projects 5G-Transformer and 5GROWTH.

### Software Developer @ Starlab 📍 | Barcelona, Spain

Feb 2017 - July 2017

- Activity in Space Software development especially focused on Python GIS libraries and OGC standards.

### Large Format Printing Qualification Agent @ HP/Sitel | Barcelona, Spain

Aug 2014 - Jan 2016

- Qualification for Hardware and Software issues for end Users for the Italian market. Global Web, Email and CRM based support case management. Purchase and order management.

### Technical Support Engineer @ Digitel Italia S.p.A. | Firenze, Italy

Sep 2011 - Oct 2012

- User activation and support management for Italian telephone (and data services) company in Unbundling Local-Loop (ULL) OLO "Digitel Italia".
- Installation, configuration and supporting of VoIP hardware and software.
- Research activity on CLASS 5 services for local telephone company networks (IP Centrex over VoIP technology).

### Research Engineer @ University of Florence | Firenze, Italy

Nov 2008 - Aug 2011

- Software and Hardware research activity on Broadband Wireless Systems, Software Defined Radio and Wireless Sensor Networks. Development for hardware and software test-beds.
- Actively involved in several Italian research projects, with regular production of reports and scientific publications about research work of the above-mentioned topics.
- Supervisor of official dissertation works of students.

## Education

### PhD Student (Signal Theory and Communications Department)

Universidad Polit cnica de Catalunya [↗](#)

Present  
Barcelona, Spain

### Master's degree in Applied Telecommunications and Engineering Management

Universidad Polit cnica de Catalunya [↗](#)

2017  
Barcelona, Spain

### Degree in Telecommunications Engineering

University of Florence [↗](#)

2008  
Florence, Italy

## Technical Skills

### Tools & Platforms

● ● ● ● ●

Bash, Git, Docker, LXC, Kubernetes, OpenStack,  
OSM  
Data Models: YANG, YAML, XML  
Data encoding: JSON

### Programming Languages

● ● ● ● ●

Python, JavaScript (ES6), HTML,  
CSS, SQL, NoSQL.

### Libraries & Frameworks

● ● ● ● ●

jQuery, D3, Flask, Jinja2,  
Bootstrap, REST, MongoDB, MySQL

## Professional Skills

I possess strong interpersonal, teamwork, and communication skills, coupled with a sense of responsibility, adaptability, and a passion for innovation. My experience as a supervisor at the University of Florence and as a co-author of scientific publications has honed my ability to convey complex ideas clearly and collaborate effectively across technical, professional, and cultural backgrounds. Additionally, through my involvement in National and European research projects, I have developed strong organizational and leadership skills, managing technical analysis, hardware/software implementation, and project coordination with a problem-solving mindset.

### Interests

Tech enthusiastic. Cycling, Poker and Video Editing.

## Certifications

### ITIL® Foundation certificate

Score: 95%

## Languages

Italian

● ● ● ● ●

English

● ● ● ● ●

Spanish

● ● ● ● ●

Catalan

● ● ● ● ●

## Publications and Awards

Authored and co-authored 30+ publications, including award-winning research recognized with **Best Fast Track Paper (IEEE NFV-SDN 2020)** and **Best Demo Paper (IEEE SECON 2021)**.

References and publications are available upon request.