



# Roberto di Lallo

Computer Scientist



20 February 1987



Rome, Italy



+39 3298370735



www.robortodilallo.com



me@robortodilallo.com

## About me

I love challenges, I am curious and I never believed in absolute truths until I opened my first math book. Currently I am working as DevOps Cloud Engineer at Consortium GARR, the Italian Academic and Research Network. Indeed, after my PhD, I searched for a place where it would have been possible to combine my interest for research and a growing curiosity for the production world. Here I found exactly the stimulus I was searching for thanks most of all to the brilliant and skilled colleagues I am working with and to the exciting challenges we face everyday. I also learned that there is more to life than just Espresso coffee and spaghetti. And I have always known that there is more to life than just work: guitar, music, reading, football keep me happy when I am not in the office.

## Professional Experience

- Nov 2017 - Today  
(10 months) DevOps Cloud Engineer  
Consortium GARR - The Italian Academic and Research Network  
*Development and operations on the cloud platform*
- Oct 2014 - Oct 2017  
(36 months) Ph.D. candidate in Computer Science  
Roma Tre University  
*Main research interests: Internet eXchange Points, Software Defined Networks, Data Analysis, Big Data, Routing, Measurements*  
*Advisor: Giuseppe Di Battista*
- Oct 2014 -Today  
(36 months) Teaching Assistant  
Roma Tre University  
*Software Analysis and Design*
- Sep 2016 - Feb 2017  
(6 months) Ph.D. Visiting Scholar  
Queen Mary University of London  
*Main research interests: Internet eXchange Points, Data Analysis, Big Data*  
*Advisor: Steve Uhlig*
- Jun 2014 - Sep 2014  
(4 months) Research Collaborator  
Nautilus Mediterranean eXchange (NaMeX)  
*Studying how Internet eXchange Points impact QoS on the Internet*
- Jan 2013 - Jul 2013  
(7 months) Contractor  
Italian National Research Council (CNR)  
*- development of a custom search engine*  
*- development of a database of documents shared, indexed and queried through natural language*
- May 2010 - Dec 2010  
(8 months) Intern  
IBM Tivoli Software Lab  
*Study about the deployment of virtual machines in cloud environments*

## Education

- Oct 2014-Oct 2017 Ph.D. candidate in Computer Science Roma Tre University  
*Internet eXchange Points: Current Challenges and New Opportunities*
- Jan 2012-May 2014 MSc in Computer Science Roma Tre University  
110 cum laude
- Jan 2007-Dec 2011 BSc in Computer Science Roma Tre University

## Languages

English: Fluent  
Italian: Mother Tongue



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## Technical Skills

*Systems and tools for cloud management and automation:* OpenStack, Kubernetes, Juju, Ansible

*Programming languages and scripting:* Java, C, C++, Python, Javascript, Bash

*Operating systems:* OSX, GNU/Linux, Windows

*Development environments and databases:* Eclipse, PyCharm, MySQL, MongoDB

*Versioning Systems:* GIT, CVS, SVN

*Network protocols:* IP, TCP/UDP, BGP, RIP/OSPF

*Network tools and emulation/virtualization environments:* Wireshark, TcpDump, Mininet, Mininext, Netkit

## Publications

- Giuseppe Attardi, Alex Barchiesi, Alberto Colla, Roberto di Lallo, Fulvio Galeazzi. "Declarative Modeling for Deploying a Container Platform" *IEEE 32nd International Conference on Advanced Information Networking and Applications Workshops (WAINA 2018)*, 2017.
- Gabriele Lospoto, Habib Mostafaei, Roberto di Lallo, Massimo Rimondini, Giuseppe Di Battista. "SDNetkit: A Testbed for Experimenting SDN in Multi-Domain Networks" *IFIP/IEEE International Symposium on Integrated Network Management (IM 2017)*, 2017.
- Habib Mostafaei, Gabriele Lospoto, Andrea Brandimarte, Roberto di Lallo, Massimo Rimondini, Giuseppe Di Battista. "SDNS: Exploiting SDN and the DNS to Exchange Traffic in a Federated Network" *IEEE Conference on Network Softwarization (IEEE NetSoft 2017)*, 2017.
- Marco Chiesa, Roberto di Lallo, Gabriele Lospoto, Habib Mostafaei, Massimo Rimondini, Giuseppe Di Battista. "PrIXP: Preserving the Privacy of Routing Policies at Internet eXchange Points" *IFIP/IEEE International Symposium on Integrated Network Management (IM 2017)*, 2017.
- Roberto di Lallo, Federico Griscioli, Gabriele Lospoto, Habib Mostafaei, Maurizio Pizzonia, Massimo Rimondini. "Leveraging SDN to Monitor Critical Infrastructure Networks in a Smarter Way" *IFIP/IEEE International Symposium on Integrated Network Management (IM 2017)*, 2017.
- Roberto di Lallo, Gabriele Lospoto, Massimo Rimondini, Giuseppe Di Battista. "How to Handle ARP in a Software-Defined Network." *In Conference on Network Softwarization (NetSoft 2016)*, IEEE, 2016.
- Roberto di Lallo, Gabriele Lospoto, Massimo Rimondini, Giuseppe Di Battista. "Supporting End-to-End Connectivity in Federated Networks using SDN." *In, Melike Erol-Kantarci, Brendan Jennings, Helmut Reiser, editors, Proc. IEEE/IFIP Network Operations and Management Symposium (NOMS 2016)*, 2016.
- Roberto di Lallo, Mirko Gradillo, Gabriele Lospoto, Claudio Pisa, Massimo Rimondini. "On the Practical Applicability of SDN Research." *In, Melike Erol-Kantarci, Brendan Jennings, Helmut Reiser, editors, Proc. IEEE/IFIP Network Operations and Management Symposium (NOMS 2016)*, 2016.
- Marco Di Bartolomeo, Giuseppe Di Battista, Roberto di Lallo, Claudio Squarcella. "Is It Really Worth to Peer At IXPs? A Comparative Study." *In Proc. ISCC*, 2015.



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## Conference Talks

- 2016 NOMS 2016, Istanbul: "On the Practical Applicability of SDN Research"
- 2015 ISCC 2015, Cyprus: "Is It Really Worth to Peer At IXPs? A Comparative Study"
- 2014 69th RIPE Meeting, London: "IXPs: Is De-peering the Right Choice?"

## Invited Talks

- 2018 OpenStack Day Rome, Campidoglio, Italy: "Recycling Keystone Auth For Kubernetes Container Platform through Self Service Application Credentials"
- 2017 University of Cambridge, Cambridge: "Towards an SDN-enabled Federated Internety"
- 2016 Queen Mary University of London, London: "On the Practical Applicability of SDN Research"

## Activities for Conferences/Journal

- 2016 Reviewer: International Symposium on Algorithms and Computation (ISAAC)
- 2016 Reviewer: International Symposium on Visualization for Cyber Security (VizSec)
- 2017 Reviewer: International Conference on Communications and Networking (ComNet 2017)

## Awards

- 2014 *RACI (the RIPE Academic Cooperation Initiative)*: [info: https://ripe69.ripe.net/programme/raci/](https://ripe69.ripe.net/programme/raci/)