

# ALEJANDRO AGUADO MARTÍN

## PROFILE

At present, Alejandro is a graduate in mathematics and computer science by the Universidad Autónoma de Madrid (2014). His professional experience is in the topics of software defined networking (SDN) and network virtualization (NFV), working at Telefonica I+D and at the High Performance Networks group, University of Bristol. Currently he is a PhD student at the Research Center for Computational Simulation, Universidad Politécnica de Madrid, and also a SDN Expert working at Wipro as a consultant for Telefonica GCTIO Software-Defined Transport Network (SDTN) strategy and network transformation. He is also actively participating in standardization institutes and other organisations, such as ETSI, IETF and OpenConfig.



## EXPERIENCE

SDN EXPERT, WIPRO TECHNOLOGIES – 2018-TODAY

Working in Transport/IP network transformation and planning towards SDN technologies, as a technology consultant for Telefónica GCTIO.

RESEARCHER AND PHD CANDIDATE, UPM – 2016-TODAY

Researcher and PhD candidate working on the integration of quantum cryptography systems in next generation networks paradigms (SDN & NFV).

RESEARCH ASSOCIATE, UNIVERSITY OF BRISTOL – 2014-2016

Research Associate in High Performance Networks group working on the topics of SDN and NFV for FP7, H2020 and EPSRC projects.

SOFTWARE DEVELOPER, PROTECCIÓN ONLINE (PROT-ON) – 2014-2014

Developing tools that enable data/file encryption and secured file sharing.

RESEARCHER, TELEFÓNICA I+D – 2013-2014

Researcher in SDN and automation for multi-layer core/metro GMPLS/Openflow enabled networks, collaborating in several FP7 European Projects.

PUBLICATIONS: <http://alejandroaguadamartin.com/publications.html>

## EDUCATION

UNIV. AUTÓNOMA DE MADRID – MATHEMATICS (BSC-MSC) 2014

UNIV. AUTÓNOMA DE MADRID – COMPUTER SCIENCE (BSC-MSC) 2014

### KEY TECHNICAL SKILLS

Technologies: SDN - NFV - Orchestration  
Network Virtualisation - PCE - ABNO

Controllers: ONOS - OpenDaylight - RYU

Other: OpenStack - Docker - Automation -  
Code generation - YANG validation tools.

Transport: Traffic engineering - Segment  
Routing - RSVP-TE - PCEP - (G)MPLS -  
RESTCONF - NETCONF - YANG - gRPC -  
Telemetry - Openflow - Optical Transport

### STANDARDIZATION

ETSI - IETF - OpenConfig

### SOME PROGRAMMING SKILLS

Java - C++ - Html - CSS - Python - php

JavaScript - jQuery - SQL - Shell - Matlab

### LANGUAGES

Spanish Native

English High

Italian Basic