

Nicolas Herbaut

University of Grenoble
LIG, Batiment IMAG
700 Avenue Centrale
38401 Saint-Martin-d'Hères
France

Phone: +33 4 57 42 16 66
Office Number: 468
Email: nicolas.herbaut@univ-grenoble-alpes.fr
Homepage: <https://www.nextnet.top/>

Education

Ph.D. Computer Science (Doctor Europaeus label), Bordeaux University , France 2014-2017.

4 months research visit in Ireland, Performance Engineering Lab, University College of Dublin
Title "Collaborative Content Distribution Over a VNF-as-a-Service Platform"

Advisor: Daniel Négru

Reviewers: Laurent MATHY, Tarik TALEB

Jury: Francine KRIEF, Liam MURPHY, Adlen KSENTINI, Marko VUKOLIC

M.Econ Economical Analysis and Econometrics, Aix-Marseille University, France 2005

M.Eng Mathematical Engineering, National Institute of Applied Science of Rouen, France, 2004

2 semesters Erasmus exchange in Italy, Università degli Studi di Ferrara

Employment

Academia

Postdoc at CNRS LIG/Grenoble, ERODS Team, 2018-

TA at Bordeaux-INP ENSEIB-MATMECA Engineering School, Telecom Department, 2014-2017

TA at Epitech Marseille Engineering School, 2014

Research Fellow at Bordeaux University, European FP7 Projet T-NOVA, 2014-2017

Industry

Team Manager, Progexia, Marseille France, 2013-2014

Team Leader, Itellinium, Marseille France, 2012-2013

Team Leader, Royal Cactus, Marseille France, 2011-2012

R&D Engineer, Mail In Black, Marseille France, 2010-2011

Team Manager, Dmailer, Marseille France, 2007-2010

R&D Engineer, Thales Alenia Space, Sophia Antipolis, 2005-2007

Publications

Journal Articles

1. Nicolas Herbaut and D. Négru, "A Model For Collaborative Blockchain-based Video Delivery Relying On Advanced Network Services Chains," *IEEE Communication Magazine*, vol. 55, issue 9, to be published in 09/2017.
2. Nicolas Herbaut and D. Négru, D. Dietrich, and P. Papadimitriou, "Dynamic deployment and optimization of virtual content delivery networks," *IEEE Multimedia*, vol. 24, issue 3 to be published in 07/2017.
3. Y. Rebahi, M. S. Ghamsi, Nicolas Herbaut, D. Négru, P. M. Comi, P. S. Crosta, P. Lorenz, E. Pallis, and E. Markakis, "Virtual network functions deployment between business expectations and technical challenges: The t-nova approach," *Recent Advances in Communications and Networking Technology*, vol. 5, 10/2016.
4. Nicolas Herbaut, G. Xilouris, and D. Négru, "The surrogate vnf approach for content distribution," *COMSOC Multimedia Communications Technical Committee E-Letter*, vol. 10, p. 4-6, 2015.

Proceedings

1. Nicolas Herbaut, Daniel Negru, David Dietrich, and Panagiotis Papadimitriou. "Service Chain Modeling and Embedding for NFV-based Content Delivery." In IEEE International Conference on Communications (ICC). 2017.
2. Nicolas Herbaut, Daniel Negru, Yiping Chen, Pantelis A. Frangoudis, and Adlen Ksentini. "Content delivery networks as a virtual network function: a win-win isp-cdn collaboration." In Global Communications Conference (GLOBECOM), IEEE, pp. 1-6. IEEE, 2016.
3. Nicolas Herbaut, Daniel Negru, Damien Magoni, and Pantelis A. Frangoudis. "Deploying a content delivery service function chain on an SDN-NFV operator infrastructure." In Telecommunications and Multimedia (TEMU), International Conference on, pp. 1-7. IEEE, 2016.
4. Nicolas Herbaut, Daniel Negru, George Xilouris, and Yiping Chen. "Migrating to a nfv-based home gateway: introducing a surrogate vnf approach." In Network of the Future (NOF), 6th International Conference on the, pp. 1-7. IEEE, 2015.

Courses Taught

At Grenoble University

Spring 2018 GBMI6U30 L3 - Object Programming TA 18h

At ENSEIRB-MATMECA

Fall 2017	RE355 M2 - Introduction to Cloud Programming	Lecturer 4h
Spring 2017	RE213 M1- Distributed applications and webservices	Lecturer 16h
Fall 2016	RE216 M1- Network Programming	TA 25h
Fall 2016	RE355 M2- Introduction to Cloud Programming	Lecturer 4h, TA 16h
Spring 2016	RE213 M1- Distributed applications and webservices	Lecturer 16h
Spring 2016	RE350 M2- Multimedia Gateways	TA 16h
Fall 2015	RE216 M1- Network Programming	TA 25h
Spring 2015	RE350 M2- Multimedia Gateways	TA 16h
Spring 2015	RE213 M1- Distributed applications and webservices	Lecturer 16h
Fall 2014	RE216 M1- Network Programming	TA 25h

At Epitech

Spring 2014 JEE101 L3- Introduction to Enterprise Java Lecturer + TA 30h

At JDEV/CNRS

Summer 2015 Virtualizing your applications with Docker Lecturer + TA 8h

Mentorship and Advising

Startup Advisory Board

I'm advising the startup Echo-In for the Elive Project which aims offering a mechanism for seamless content rights distribution between Multimedia Content Creators and producer. I'm leading the blockchain-based side of the project. I participate to technical parts of funding applications.

Medi@Home, Graduate 6 month team project at ENSEIRB 2014

the Private Home-Media Social Network
6 Master students from the Telecom department.

SnapMail Project, Graduate 5 month team project at ENSEIRB, 2015

Private Cloud gateway for Email Sharing
7 Master students from the Telecom department.

Docker in the Cloud, Graduate 6 month team project at ENSEIRB, 2016

Study of Orchestration solution for containers (swarm, coreos, k8s)
8 Master students from the Telecom department.

In the industry

I was responsible of teams of 3-7 people. I was in charge of their recruitment, motivation, technical training, HR questions.

Service

Administrative

Since 2011, I spend a week per year at the local Marseille Selection Board for INSA Lyon (a leading Engineering School in France). Paired with a Psychologist and an INSA Professor, we conjointly run interviews of candidates.

Volunteering

2018 IFIP Network Traffic Measurement and Analysis Conference Shadow PC Member

2018 Eurosys Heavy Shadow PC Member

2017 IEEE ICC Conference Student Volunteer

2016-2018 Les Petits Débrouillards Associations, Administrator

2015-2017 CS Grad students Society of Bordeaux, Secretary

2015-2017 Math & Computer Science Graduate School of Bordeaux, Student Representative

2015 ACM Eurosys Conference Student Volunteer

2010-2014 Sel de MARS Timebank Association, co-founder and administrator

Professional Skills

Development	
OS	GNU/Linux (devOps), MacOSX, Windows...
Databases	MySQL, MS SQL Server, SQLite, MongoDB
Languages	Python, JAVA, C, C++, Go, R...
Web	HTML/CSS, JQuery, Angular JS...
Frameworks	Spring, Spring Boot, JEE, Struts, Portlets, Junit...
Development Methodology	OMT - UML, eXtrem Programming, Scrum
Tooling	Maven, Docker, SaltStack,...
Project engineering	
Project Management	10+ projects, sub-contracting, remote management, collaborative projects
Team management	small and medium teams, HR, job interviews
Languages	
French	Mother tongue
English	Proficient (4 months visiting researcher in Dublin, Ireland)
Italian	Proficient (1 year graduate studies in Italy)

Last updated: April 17, 2018

<https://nextnet.top/cv>