

# Nicolas Herbaut

University of Bordeaux  
LaBRI Bat A30  
F-33450 Talence France

Phone: +33 5 40 00 31 09  
Office Number: 256  
Email: [nherbaut@labri.fr](mailto:nherbaut@labri.fr)  
Homepage: <http://www.labri.fr/perso/nherbaut/>

## Education

Ph.D. Computer Science, Bordeaux University , France 2014-2017.

Projected graduation September 2017.

4 months research visit in Ireland, Performance Engineering Lab, University College of Dublin

Title "Media Gateway Virtualization used as a service in a cloud infrastructure"

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*

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 ENSEIRB-MATMECA

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

### *At Epitech*

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

### *At JDEV/CNRS*

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

## Mentorship and Advising

### *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*

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

<b>Development</b>	
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,...
<b>Projet engineering</b>	
Project Management	10+ projects, sub-contracting, remote management, collaborative projects
Team management	small and medium teams, HR, job interviews
<b>Languages</b>	
French	Mother thongue
English	Proficient (4 months visiting researcher in Dublin, Ireland)
Italian	Proficient (1 year graduate studies in Italy)

Last updated: June 12, 2017

<https://nextnet.top/cv>