

# Curriculum Vitae

## Personal information

First name, Surname

**Sokratis Barmounakis**

Address

**Available upon request**

Telephone

Available upon request

E-mail

[socbar@gmail.com](mailto:socbar@gmail.com)

[sokbar@di.uoa.gr](mailto:sokbar@di.uoa.gr)

Nationality

Greek

Date of birth

22/06/1986

Gender

Male

## Work Experience

Date

April 2013 to present

Name and address of employer

University of Athens, Department of Informatics & Telecommunications, SCAN group

Type of business or sector

Research

Occupation or position held

- Research Associate
  - Leading Flspace FP7 EU project on behalf of the University of Athens team
  - Actively involved in METIS FP7 EU project tasks on behalf of the University of Athens
- PhD on Context-Aware Mobility Management mechanisms on Future Mobile Networks (5G)
- Supervisor of several MSc and BSc theses
- TPC member or reviewer in various conferences
- Developer on network simulator software (NS3)

Date

February 2011 to December 2012 (23 months)

Name and address of employer

University of Geneva, Institute of Services Science

Type of business or sector

Research & Development

Occupation or position held

- Developer for Quality of Service Information Systems – QoSIS project
  - Quality of Network prediction system based on Data Mining & Machine Learning techniques (WEKA software)
  - webQoSIS: a web platform for providing QoS predictions to the users using the ArcGIS server 10 SDK
  - mQoSIS: implementation of the Android version of QoSIS
- Nokia Challenge: Data Mining analysis for Mobile Application Usage Patterns for 50 mobile users
  - Raw data analysis, pattern extraction, algorithm implementation
  - Published in 2012 for Nokia Mobile Data Challenge workshop, Newcastle [1]
- Developer for live TeleUltraSonography (TeleUSG) project of University of Geneva in collaboration with the University Hospital of Geneva (HUG)
  - live streaming of compressed UltraSonography video sequences, implemented using the H.264 encoder, integrated in existing UltraSonography software SDK by Ardent (C/C++)
- Development of Social Network platform of TraiNutri European project using the Elgg open source platform

Date

From November 2010 to January 2011 (3 months)

Name and address of employer

Goethe University, Department of Biophysics, Frankfurt am Main - Marie Curie Institute

Type of business or sector

Research under Marie Curie Institut's „Nucleosome 4D“ project

Occupation or position held

Junior EU Researcher - Computational engineer (Image processing, Programmer)

Date From October 2009 to June 2010 (9 months)  
 Name and address of employer Analog and Digital Communication Systems Laboratory – Department of Electrical and Computer Engineering, National Technical University of Athens  
 Type of business or sector Communication, Electronic and Information  
 Occupation or position held Research and Wireless Sensor Networks (WSN) tool development under the laboratory's project "Cognitive radio-aided wireless sensor networks for emergency response"

Date From November 2006 to November 2007 (12 months)  
 Name and address of employer O.T.E. (Hellenic Organisation of Telecommunications), Athens  
 Type of business or sector Telecommunications  
 Occupation or position held Technical support (ADSL connections)

Date From September 2005 to June 2007 (21 months)  
 Type of work Teacher of high school students in private classes (Computer Programming, Mathematics, Physics, Biology, Chemistry)

## Publications

### Journal Publications

- S. Bampounakis, A. Kaloxylos, A. Groumas et. al, «Management & Control applications in Agriculture domain via a Future Internet Business-to-Business Platform», Information Processing in Agriculture Journal (IPA), May 2015
- S. Arkoulis, D-E. Spanos, S. Bampounakis, A. Zafeiropoulos, N. Mitrou, "Cognitive radio-aided wireless sensor networks for emergency response", *IOPscience Journal*, November 2010.

### Conference Publications

- S. Bampounakis, A. Kaloxylos, P. Spapis, N. Alonistioti, "COmpAsS: A Context-Aware, User-Oriented RAT Selection Mechanism in Heterogeneous Wireless Networks", Mobility 2014, Fourth International Conference on Mobile Services, Resources, and Users, July 20-24 – 2014, Paris, France
- A. Kaloxylos, S. Bampounakis, P. Spapis, N. Alonistioti, "An efficient RAT selection mechanism for 5G cellular networks", International Wireless Communications and Mobile Computing 2014, 4-8 August 2014, Nicosia, Cyprus

### Workshop Publications

- S. Bampounakis, K. Wac, "Deriving Connectivity and Application Usage Patterns From Longitudinal Mobile Phone Usage Data (2012)", MDC Workshop, Pervasive 2012, July 2012 Newcastle

## Invited Talks

- S. Bampounakis, A. Groumas, Invited talk and session chairing in "Smart Greenhouse Management & Control on FSpace B2B platform", Smart AgriMatics conference, Paris, June 2014
- S. Bampounakis, K. Wac, "QoSIS – Quality of Service Information System", TIGERS (Technology of Information for Geographic and Environment Research and Studies), Institute of Science Services, Geneva, November 2012

## TPC Member, Reviewer

- Technical Program Committee member in IARIA, MOBILITY 2015, The Fifth International Conference on Mobile Services, Resources, and Users
- Reviewer in IARIA, MOBILITY 2015, The Fifth International Conference on Mobile Services, Resources, and Users
- Reviewer in International Wireless Communications and Mobile Computing Conference (IWCMC 2014)

## BSc/Master theses supervision

- D. Stavlas, "A novel smart Battery Consumption application for Android smartphones", November 2014
- G. Regkas, "An Android application for Environment Sensing and WLAN APs mapping", January 2014
- E. Skandalellis, A. Valsamis, "Indoor Positioning methods investigation using WiFi technology", January 2014

## Education and training

Date	From September 2004 to July 2010:
Title of qualification awarded	5-year Degree (Diploma) in Electrical and Computer Engineering (3 years of Bachelor and 2 years of Master equivalent, in the field of Networks, Communications and Computer Systems). Grade : 7.46 / 10
Principal subjects/occupational skills covered	<ul style="list-style-type: none"><li>• 60 undergraduate classes total</li><li>• Major fields: Telecommunication Systems and Computer Networks, Computer Systems, Electromagnetic Waves and Telecommunication</li><li>• Diploma Thesis: Experimental verification of the co-existence problem of Wireless Sensor Networks in the 2.4 GHz band and a proposed method to confront it.</li></ul>
Name and type of organisation providing education and training	National Technical University of Athens (NTUA), 2004 – 2010 <i>Undergraduate student in Electrical and Computer Engineering</i> Univeristy of Geneva (UniGE), 2011 – 2012 <i>Researcher</i> National & Kapodistrian University of Athens (NKUA), 2013 – present <i>PhD student</i>
Date	From September 2001 to June 2004: 3 <sup>rd</sup> High School of Heraklion, Crete. Grade: 19.4 / 20

## Personal Skills and Competencies

### Mother Tongue

Greek

### Other Languages

- English (proficiency level, CPE – University of Cambridge, CPE – University of Michigan)
- German (advanced level, Zentrale Mittelstufenprüfung - Goethe Institut)
- French (very basic knowledge)

## Skills and competences

- Operative systems: MacOS, Windows, Linux (basic knowledge), TinyOS
- NS-3 expert (LTE module)
- Programming languages: C, C++, Matlab, Python, Java, Assembly, VHDL, UML, PHP
- Computer Networks
- Android development (medium knowledge)
  - ArcGIS for Android API
- Fuzzy Logic (Matlab, fuzzylite library)
- Web Services, Social Networks (Elgg Platform knowledge)
- Special software: NS-3, Eclipse, Matlab, ArcGIS Desktop & Server (Geoprocessing services) software, Wireshark, Wamp server, P-Spice, ModelSim, Xilinx Design Suite, Amira (3D Visualisation), 3D Mod
- MySQL, PHP scripting (basic knowledge)
- Microsoft/Open Office knowledge
- Experience in Wireless Sensor Network deployment, optimization
- Business Process Management, Business entities, Business Collaboration Objects
- Event handling in Business Collaboration Objects
- Business-to-Business Collaboration Platform
- ICT in Agricultural domain (Farm Management Information Systems)

**Social skills and competences**

- Living and working with other people in groups, in multicultural environments, in positions where communication is of great importance and situations where teamwork is essential
- Strong flexibility and willingness to travel international
- Very good communication skills with different cultures
- Creative spirit
- Sociable, used to organise the high-school and college concerts, leading guitarist and singer

**Artistic skills and competences**

- Song composition
- Music recording, mixing, production
- Playing the guitar
- Playing the trumpet
- Photography

**Other skills and competences**

- Managerial qualifications (Managed FIspace EU FP-7 Project on behalf of the University of Athens)
- Hard working - able to work under pressure with tight deadlines
- Good presentation skills
- Basic knowledge of business management, market, competition, project management
- 2 times (March 2003, March 2004) honored from the "Hellenic Mathematical Society" after taking part in the "Thales" national high-school competition.
- 1 time (March 2003) honored from the "Hellenic Chemistry Society" after taking part in the annual national high-school competition.

Driving Licence

*Full Clean Licence*

**References**

*Letters of reference are available upon request*