
EMPLOYMENT

- Research Assistant** **IMSC, Viterbi School of Engineering, USC** **May 2014-Present**
MediaQ:
- Leading the development team for the MediaQ project
 - Implementing the web services, GUI and spatial crowdsourcing part of MediaQ for data collection from the public.
- SDE (Intern)** **Amazon.com, USA** **May 2014 – August 2014**
- Developed a tool for Amazon Appstore team to better maintain the test cases results of apps running on Amazon devices.
- Student Worker** **IMSC, Viterbi School of Engineering, USC** **August 2012-May 2014**
iWatch (short for “Intelligent Watch”): Intelligent surveillance system for campus monitoring at USC.
- Developed a dynamic front-end (UI) of iWatch to provide intelligent surveillance system for a variety of applications (e.g. security surveillance, public health surveillance, traffic surveillance, etc).
 - Integrated fine-grain and heterogeneous spatiotemporal surveillance data from various sources.
- Special Scientist (Intern)** **Department of Computer Science, University of Cyprus** **June 2012-August 2012**
- Worked on the FireWatch project (see below).
 - Technical Design and Development of the Firewatch project.
- Research Assistant** **Department of Computer Science, University of Cyprus** **January 2011-June 2012**
- Worked on the development of the project titled FireWatch: G.I.S.-assisted Wireless Sensor Networks for Forest Fires, funded by RPF, Cyprus
- Research Assistant (Intern)** **Department of Computer Science, University of Cyprus** **June 2011-September 2011**
- I worked at the DMSL lab on a platform for the evaluation of fingerprint positioning algorithms on Android Smartphones.
 - I worked as a senior developer for the Airplace project.
- IT Support (Intern)** **Cyprus Tourism Organization** **July 2009-August 2009**
- Provide IT support for employers seeking to incorporate computers in their line of work.
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EDUCATION

- Los Angeles, CA** **University of Southern California** **August 2014-Present**
- PhD in Computer Science
- Los Angeles, CA** **University of Southern California** **August 2012-May 2014**
- Master of Science in Computer Science. GPA: 3.90/4 [Excellent]
 - Thesis: *GeoCrowd: a spatial crowdsourcing system implementation*
- Nicosia, Cyprus** **University of Cyprus** **September 2008-June 2012**
- Bachelor of Science in Computer Science. GPA: 8.95/10 [Excellent]
 - Thesis: *FireWatch: G.I.S.-assisted Wireless Sensor Networks for Forest Fires*
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TECHNICAL EXPERIENCE

Projects

- **GeoCrowd** (present). Enabling Query Answering with Spatial Crowdsourcing. This feature is integrated into MediaQ to efficiently collect media content from crowd.
 - **MediaQ** (present). Developing a novel media management platform for collecting, organizing, sharing, searching, and trading user-generated mobile pictures and videos using advanced geospatial analysis and video analytics technologies.
 - **iWatch**. Intelligent surveillance system for campus monitoring at USC.
 - **iCampusEvents – Geospatial Information Management Course project**. Developed on Android smartphones, it aims to provide geospatial features so users can easily find future, or ongoing campus events.
 - **FireWatch** (2011-2012). A ubiquitous fire detection and prediction system based on state of the art technologies in Wireless Sensor Networks (WSNs), Geographical Information Systems (GIS), Terrain Analysis & Digital Terrain Modeling and Collaboration Systems.
 - **Crowdcast** (2012). An innovative suite for crowdsourcing with proximity-based interactions. Crowdcast is built on top of the Proximity framework, which efficiently connects you to your closest neighbors at all times, regardless of
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where you are and how far your closest neighbors are. In particular, Proximity addresses the Continuous All k-Nearest Neighbor (CAkNN) problem efficiently.

- **oopa - Social Media Design and Development** (2012). Help with the design and development of various pages of social media driven products ready for launch by Wadja Inc. in the US.
- **Airplace** (2011). The Airplace system is an end-to-end mobile positioning platform developed on Android smartphones that facilitates the construction of the radiomap and features real-time indoor positioning, while offering the additional option to assess the performance of different fingerprint -based algorithms with respect to the positioning time, accuracy and power consumption.
- **ACM SIGMOD 2011 Programming Contest** (2011). Implementation of a high-throughput main-memory index that uses flash-based Solid-State-Disk for durability.

PUBLICATIONS

- "**Janus - Multi Source Event Detection and Collection System for the Effective Surveillance of Criminal Activity**", Shahabi, C., Kim, S. H., Nocera, L., **Constantinou, G.**, Lu, Y., Cai, Y., Medioni, G., Nevatia, R. and Banaei-Kashani, F., Journal of Information Processing Systems 2014 (**JIPS '14**), 10, 1, 1--22.
- "**MediaQ: Mobile Multimedia Management System**", Seon Ho Kim, Ying Lu, **Giorgos Constantinou**, Cyrus Shahabi, Guanfeng Wang, Roger Zimmermann, ACM Multimedia Systems Conference 2014 (**MMSys '14**), Singapore, 2014
- "**Proximity Interactions with Crowdcast**", Marios Constantinides, **George Constantinou**, Andreas Panteli, Theophilos Phokas, Georgios Chatzimilioudis, Demetrios Zeinalipour-Yazti, The 11th Hellenic Data Management Symposium (**HDMS '12**), Chania Greece, June 28-29, 2012.
- "**The Airplace Indoor Positioning Platform for Android Smartphones**", C. Laoudias, **G. Constantinou**, M. Constantinides, S. Nicolaou, D. Zeinalipour-Yazti, C. G. Panayiotou, Demo at the 13th IEEE International Conference on Mobile Data Management (**MDM '12**) (**Best Demo Award!**), IEEE Computer Society, Bangalore India, July 23-26, 2012.
- "**FireWatch: G.I.S.-assisted Wireless Sensor Networks for Forest Fires**", Panayiotis G. Andreou, George Constantinou, Demetrios Zeinalipour-Yazti, George Samaras, Poster at the 24th International Conference on Scientific and Statistical Database Management (**SSDBM '12**), LNCS Proceedings, Chania Greece, 25-27 June, 2012.
- "**Demo: The Airplace Indoor Positioning Platform**", C. Laoudias, G. Constantinou, M. Constantinides, S. Nicolaou, D. Zeinalipour-Yazti and C. G. Panayiotou, Demo at the 10th International Conference on Mobile Systems Applications and Services (**Mobisys '12**), Low Wood Bay Lake District UK, 2012.
- "**A Platform for the Evaluation of Fingerprint Positioning Algorithms on Android Smartphones**", C. Laoudias, G. Constantinou, M. Constantinides, S. Nicolaou, D. Zeinalipour-Yazti, C. G. Panayiotou, Demo at the International Conference on Indoor Positioning and Indoor Navigation (**IPIN '11**), Guimares, Portugal, 2011.

PRESENTATIONS

- Poster Presentation at the 24th International Conference on Scientific and Statistical Database Management (SSDBM '12), "**FireWatch: G.I.S.-assisted Wireless Sensor Networks for Forest Fires**", Panayiotis G. Andreou, **George Constantinou**, Demetrios Zeinalipour-Yazti, George Samaras, Chania Greece, 25-27 June, 2012.

AWARDS

- *Award of Excellence in the Department of Computer Science, University of Cyprus.*
- *Fulbright Scholarship for graduate studies in the US.*
- *Best Demo Award at MDM'12 conference for "The Airplace Indoor Positioning Platform for Android Smartphones".*
- Crowdcast project placed 3rd nationally in the Microsoft Imagine Cup Competition 2012.
- ACM SIGMOD 2011 Programming Contest, placed 6th.
- SocialFace implementation in local competition of Databases Course was awarded the 2nd position among 30 teams.
- IEEEExtreme Programming Competition 4.0, ranked 77th out of 971 teams.
- Bronze Medals in Mathematics Olympiads by Cyprus Mathematical Society.

ADDITIONAL EXPERIENCE

- *Programming Languages:* Java, C#.NET, C, C++, VB.NET, Matlab, Shell Scripts
- *Web Application Programming:* HTML5, PHP, ASP.NET, Javascript/JQuery, AJAX, CSS, XML, JSON, Servlets
- *Databases:* Microsoft SQL Server, MySQL, PostgreSQL, Oracle
- *Operating Systems:* Windows, Unix/Linux.
- *Frameworks/SDKs:* Android SDK, Silverlight, XNA, .NET, Windows Phone SDK, Kinect SDK.
- *Integrated Development Environments (IDEs):* Eclipse, Visual Studio, Netbeans.