



Georgios Samaras

CONTACT INFORMATION

Georgios Samaras
Tainarou 76 Street
Glyfada, Greece, 16561

E-mail: gsamaras@di.uoa.gr
Phone: (+30) 6978849807
Website: [G.Samaras](#) (242K views)

EDUCATION

Department of Informatics & Telecommunications (DIT) Sep 2015 – Feb. 2017
National & Kapodistrian University of Athens, Greece
 Master student, Data Science - current location.

Faculty of Informatics (USI) Sep 2012 – Feb. 2013
Università della Svizzera italiana, Lugano, Switzerland
 Transfer student, under Erasmus program. Semester rank: *2nd* (GPA 8.85 /10).

Department of Informatics & Telecommunications (DIT) Sep. 2010 – Feb 2015
 Undergrad. student of a 4 year course. Top-annual Thesis. Degree rank: *1st* (GPA 8.85 /10).

4th High School of Glyfada, Athens, Greece Sep. 2007 – June 2010
 GPA 19.1 /20 and 7 Aristeions for distinctions related to courses.

FELLOWSHIPS

- Full financial support in Winter school “Combinatorial and algorithmic aspects of convexity”, with professors Vempala and Bárány, which took place in [IHP](#), Paris.
- Full financial support to participate in [Mediterranean Days@Campus SophiaTech](#), France.
- Fellowship from European Union, for studying in Switzerland for 1 semester.

WORK EXPERIENCE

Software Developer Engineer Intern at Yahoo! Inc., Silicon Valley, USA. 7-9/2016

IT support and supervisor of lecture rooms, for DIT, Greece. 2-5/2016

Teaching Assistant in ‘Software Development’, at DIT, Greece. 2015-16

Software Developer Engineer in European project [CloudFlow](#), European Union. 3-9/2015

Software Developer Engineer Intern at [INRIA](#), in [GUDHI](#) project, France. 4-8/2014

Waiter at Piatsa Kalamaki, Athens. 6-8/2011

Goalkeeper at Terpsithea FC, in Delta Ethniki, Athens. 2006-07

TECHNICAL SKILLS

Algorithms Bigdata Computational-Geometry Distributed-Computing Machine-Learning
 Parallel-Processing C++ C Python Scala Java Prolog Matlab Scripting Assembly
 HTML₅ CSS₃ AJAX JavaScript RDF NODE.js PHP Dynamic Event driven Logic
 Multi Object-Oriented Procedural Hadoop Spark SciKit ScaLAPACK Intel-MKL HDF
 Git MPI CGAL Boost L^AT_EX jQuery MongoDB SQL SPARQL PostgreSQL

LANGUAGES

C2 B1 A1 Native

(SELECTED) PROJECTS

Practical Linear-Space A. Near Neighbors in High Dimension (Master Thesis) winter 16
 Algorithms, Hashing, Parallel processing, and the Near Neighbor problem in High Dimensions.

Virtual Reality Serious Game: HTML₅, Unity, Construct₂(team project) winter 16
User Experience Quality Assurance. “Feed the Polar Bear”, an educative and fun game.

Big Data Visualization: Spark, Python, HTML₅, CSS₃, JS (Yahoo project) summer 16
 k-means exps., visualize clusters, two implementations, eval. user experience. Improved Spark.

Big Data Visual Similarity Search: Spark, Python, SciKit-Learn (Yahoo project) su. 16
 Collect & clean data, deep-learning features, apply PCA, query. Classification with SVM.

Big Data Similarity Search with text data: Python (team project) spring 16
 Memory limitations/smart design. Minhashing (dim. reduction) & LSH (ANNS) in high dim.

Publishing & querying Linked geospatial data: OWL, RDF, GeoSPARQL winter 15
 Create ontologies, convert/combine datasets & pose interesting queries about Greek waters.

Big Data Mining: Spark, Hadoop, Python, Scala, SciKit-Learn (team project) wint. 15
 Cluster creation. Collect, process/clean, *clustering* and evaluation of text data.

Distributed/hybrid computing: MPI, OpenMP, CUDA, C (team project) winter 15
 Heat transferring simulation. Clever design to skip Scatter step, unique approach in class.

Football apps: Real-life problem, HTML₅, CSS₃, PHP, JavaScript, SQL (iCage 80k) 13-5
Maintenance, user-based upgrades. Scheduler, Suggestions, Standings, Stats. Acquired/Inspired.

Cloud Linear Algebra: ScaLAPACK, Intel-MKL, MPI, C++ (European project) spr. 15
 Cluster creation. Leverage Memory. Numeric precision research. CloudFlow with Helic, Inc.

High-dimensional approximate NN: kd-GeRaF: C++ (thesis project, GitHub, WebApp) w 14
 It handles 10^6 images in 960 dimensions in < 1 sec with about 90% accuracy. **Molecule folder: Bioinformatics, C++** summer 14
 Generate new realistic and accurate data. Later use by the professor of the “Software Dev”.

Social Network Analysis System (SIGMOD contest): C++ spring 14
 Analyze a large social network, with real datasets. Efficiently perform queries in parallel.

Program a robot: C, cross-compiling winter 12
 Project that was supervised by Dr. Alexander Förster. [Demo](#).

Impress.js WYSIWYG editor: HTML₅, CSS₃, Impress.js, jQuery, Aloha winter 12
 Edit presentations on the fly in the browser. 4-person project, [presentation](#), and [code](#) [Google](#).

Photoalbum: HTML₅, CSS₃, MongoDB, JS, jQuery, NODE.js, JSON, AJAX winter 12
 Client/server side, various features (slideshow, tag cloud, Drag & Drop, efficient search, etc.).

Reversi (aka Othello): C winter 2010
 A console implementation of reversi using the [Minimax algorithm](#) to determine moves.

ACHIEVEMENTS

- Connected FAGE and Yahoo for food supplies.
- Career opportunities by *Electronic Arts: EA Games* and *Obrela, Security Industries*.
- Exps for “Rand Methods Poly Vol” [paper](#).
- Top *Google* result for Quicksort C++.
- Found *bugs in Facebook*, proposed fixes (were debugged). *A job offer* was made to me.
- Created slides and exercises in “Electromagnetism & Optics” course, as an undegrad.
- Accepted for a CS Master at [EPFL](#).
- Called in for a *Google* interview on 2017.
- *Captain* of football team, 18 medals, 3 cups, Top Scorer Award. 3 Honours from the state.
- Undergrad $E\rho\Gamma A$ lab & Master *study group*.
- Selected in DIT team for *SIGMOD*.
- Coordinated 40 people & planned rescue with Fire dept. of an injured & trapped child.
- Top voted Student *President*, found resources on funding absence. Pioneered in Recycling.
- Achieved a 30% off for housing in USA.

WHY ME?

5 + 1 reasons

- Team spirit (*communicator, sociable, smile*) - able to lead
- Missionary member
- Imagination
- Resilient & reliable (*recovered twice when PC failed*)
- Able to learn state-of-the-art technologies
- I love what I am doing (*CS and the mindset*)

PUBLICATIONS

- Y. Avrithis, I. Emiris and G. Samaras, “High-dimensional visual similarity search: k-d Generalized Randomized Forests”, *Computer Graphics International*, July 2016.
- G. Avarikioti, I. Emiris, I. Psarros and G. Samaras, “Practical linear-space Approximate Near Neighbors in high dimension”, *The European Workshop on Computational Geometry*, April 2017.

HOBBIES

Investments, airplanes, organizing amateur football leagues, Trusted user in [Stack Overflow](#) (20k rep.), Pokemon World Tournament (top 15), coding, dancing, traveling and more ...