

Evangelia Sitaridi - PhD Candidate

- PERSONAL INFO** *Email:* eva@cs.columbia.edu Citizenship: Greek
 Web: www.cs.columbia.edu/~eva *Tel:* 917-767-1143
- EDUCATION** Ph.D (expected May 2016), Columbia University, Department of Computer Science, *Advisor:*
 Professor Kenneth A. Ross, GPA: 4.09/4.00
- M.Sc. in Advanced Information Systems, National and Kapodistrian University of Athens,
 Department of Informatics and Telecommunications, GPA: 9.62/10
 Thesis: Scheduling on the Cloud. *Supervisor:* Professor Yannis Ioannidis
- B.Sc. in Computer Science, National and Kapodistrian University of Athens, Department of
 Informatics and Telecommunications, GPA: 8.7/10
 Thesis: Distributed query optimization by query trading. *Supervisor:* Professor Yannis Ioannidis
- RESEARCH INTERESTS** Database Implementation on Modern Hardware, Data Management on Parallel Systems, Main-Memory Databases, Hardware Acceleration
- HONORS AND AWARDS**
- 2015: Google Travel Award to attend VLDB 2015
 - 2014: Onassis Foundation Scholarship
 - 2014: IBM PhD Fellowship
 - 2013: Columbia CS Service Award
 - 2012: Gerondelis Foundation Scholarship
 - 2012: 2nd Award in IBM Summer Intern Contest 2012
 - 2012: Best Paper Award in DaMoN 2012 Workshop
 - 2011: ICDE 2011, Poster of the day Award
 - 2011: Travel Grant to attend SIGMOD 2011 & 2013
 - 2009: Zoi's Soutsou Scholarship for M.Sc. studies (awarded after exams)
 - 2007: Ranked 2nd in graduating class
- EXPERIENCE**
- **Sep 2012 - now** Research Assistant in National Science Foundation Project, “Database Processing on GPUs”, *Principal Investigator:* Kenneth Ross
 - **May 2014 - Sep 2014** Research Intern in IBM Almaden Research Center, “Hardware Accelerated GPU Decompression”, *Manager:* Guy Lohman
 - **May 2013 - Sep 2013** Research Intern in IBM Almaden Research Center, “Parallelizing Compression using GPUs”, *Manager:* John McPherson
 - **May 2012 - Sep 2012** Research Intern in IBM Almaden Research Center, “Hardware-Aware Information Extraction”, *Manager:* Howard Ho
 - **Sep 2010 - May 2012:** Research Assistant in National Science Foundation funded Project, “Database Parallelism on Multicore Machines”, *Principal Investigator:* Kenneth Ross
 - **May 2008 - July 2010:** Researcher in University of Athens, “Distributed data flow processing using user-defined operators”, *Principal Investigator:* Professor Yannis Ioannidis
 - **May 2008 - May 2010:** Researcher in “Health-e-Child” Project, “Integrated healthcare platform for European pediatrics”, *Project Leader:* Professor Yannis Ioannidis

PUBLICATIONS

1. **Evangelia Sitaridi**, Rene Mueller, Tim Kaldewey, Guy Lohman, Kenneth Ross, "Parallel Decompression using GPUs", Under preparation
2. **Evangelia Sitaridi**, Kenneth Ross, "GPU-Accelerated String Matching for Database Applications", VLDB Journal Special Issue on Data Management on Modern Hardware
3. Raphael Polig, Kubilay Atasu, Laura Chiticariu, Christoph Hagleitner, Peter Hofstee, Frederick Reiss, **Evangelia Sitaridi**, Huaiyu Zhu, "Giving Text Analytics a Boost", IEEE Micro Special Issue on Big Data 2014
4. **Evangelia Sitaridi**, Rene Mueller, Tim Kaldewey, "Parallel Lossless Compression Using GPUs", GPU Technology Conference (GTC) 2014
5. **Evangelia Sitaridi**, Kenneth Ross, "Optimizing Select Conditions on GPUs", DaMoN Workshop 2013
6. Kenneth A. Ross, **Evangelia Sitaridi**, "Partitioned Blockmap Indexes for Multidimensional Data Access", Technical Report, April 2012
7. Harry Dimitropoulos, Herald Kllapi, Omiros Metaxas, Nikolas Oikonomidis, **Evangelia Sitaridi**, Manolis M. Tsangaris, and Yannis E. Ioannidis: "AITION: A Scalable Platform for Interactive Data Mining", SSDBM 2012
8. **Evangelia Sitaridi**, Kenneth Ross, "Ameliorating Memory Contention of OLAP operators on GPU Processors", DaMoN Workshop 2012. (Best Paper Award winner)
9. Herald Kllapi, **Evangelia Sitaridi**, Manolis Tsangaris, and Yannis Ioannidis, "Schedule Optimization for Data Processing Flows on the Cloud", SIGMOD 2011
10. Konstantinos Tsakalozos, Herald Kllapi, **Evangelia Sitaridi**, Mema Roussopoulos, Dimitris Paparas, and Alex Delis, "Flexible use of cloud resources through profit maximization and price discrimination", ICDE 2011
11. G. Kakalettris, H. Kllapi, G. Papanikos, F. Pentaris, P. Polydoros, **Evangelia Sitaridi**, V. Stoumpos, and Y. Ioannidis, "Dataflow Processing and Optimization on Grid and Cloud Infrastructures", IEEE TCDE Bulletin, March 2009

SERVICE

Reviewer for ICDE 2013, CIKM 2014 and VLDB Journal 2015
Board Member of Women in Computer Science (WICS) of Columbia University

TEACHING

- Guest Lecturer for "GPU Computing", Columbia University, Fall 2013/14
- Teaching Assistant for "Database System Implementation", Columbia University, Spring 2011/13
- Instructor for "Software Development", University of Athens, Spring 2008/09
- Teaching assistant for "Operating Systems", University of Athens, Fall 2007/08
- Lab Instructor for "Introduction to Programming", University of Athens, Fall 2007
- Teaching assistant for "Object Oriented Programming", University of Athens, Spring 2007

TECHNICAL SKILLS

Programming Languages: C, C++, Cuda C, SIMD instruction extensions (SSE/AVX), Java, Prolog, Haskell, Bash
Markup Languages: HTML, Latex
Query Languages and DBMSs: SQL, MySQL, OracleDB, PostgreSQL
Operating systems: Linux, Solaris, Windows
Other skills: CUDA Profiling, C/C++ Profiling tools (perf, gperftools, valgrind)