

Research Database systems, graph and approximation algorithms. Distributed algorithms and analysis of distributed systems. Probabilistic inference and machine learning. Applications in Sensor Networks, routing algorithms, message passing and query processing.

Education **University of California, Berkeley**
September 2003-June 2009(expected): Ph.D in Computer Science.
Advisors: Prof. Joseph Hellerstein and Prof. Carlos Guestrin (CMU)

University of California, Berkeley
December 2005: M.S. in Computer Science.
Masters Report: Data Gathering Tours in Sensor Networks
Advisors: Prof. Joseph Hellerstein and Prof. Carlos Guestrin (CMU)

National Technical University of Athens
September 1998- June 2003: Diploma in Electrical and Computer Engineering (5 year degree)
GPA: 9.2/10 (Top 2%)
Graduation Thesis: Modeling and Exploring the Algebraic Properties of Hierarchical Structures
Advisor: Prof. Timos Sellis

Awards and Honors

- Siebel Scholarship, awarded by the Siebel Foundation (Siebel Scholar 2008)
- Award from the Technical Chamber of Greece for top ranking among the students of Electrical and Computer Engineering. (2003)
- Graduation award (2003) and multiple ranking awards (1998-2003) for academic performance from Greek National Foundation of Scholarships.
- Onassis Foundation fellowship to attend Computer Science Summer School on Data mining and Information Retrieval, Crete, Greece. (2002)

Publications

- [1] A. Meliou, C. Guestrin and J. Hellerstein, “Approximating Sensor Network Queries Using In-network Summaries”, to appear in the International Conference on Information Processing in Sensor Networks (IPSN) 2009.
- [2] T. Dalamagas, A. Meliou and T. Sellis, “Modeling and Manipulating the Structure of Hierarchical Schemas for the Web”, Information Sciences, Elsevier, Volume 178, Issue 4, February 2008.
- [3] A. Meliou, A. Krause, C. Guestrin and J. Hellerstein, “Nonmyopic Informative Path Planning in Spatio-Temporal Models”, Association for the Advancement of Artificial Intelligence (AAAI) 2007.
- [4] A. Meliou, D. Chu, C. Guestrin, J. Hellerstein and W. Hong, “Data Gathering Tours in Sensor Networks”, International Conference on Information Processing in Sensor Networks (IPSN) 2006.
- [5] T. Dalamagas, A. Meliou and T. Sellis, “Modeling and Manipulating the Structure of Portal Catalogs”, National technical University of Athens Technical Report TR-2003-2, June 2003.

Theses:

- [6] A. Meliou, “Query Optimization and Inference in Wireless Sensor Networks”. UCB/EECS Ph.D Thesis (*tentative title*).

- [7] A. Meliou, “Data Gathering Tours in Sensor Networks”. UCB/EECS Masters Report.
- [8] A. Meliou “Modeling and Exploring the Algebraic Properties of Hierarchical Structures”. NTUA Diploma Thesis DIPL-2003-07.

Professional Experience

University of California, Berkeley January 2004 - present
Graduate Student Researcher

- Working under the supervision of Prof. Joe Hellerstein and Prof. Carlos Guestrin (CMU).
- Focus on the analysis of query routing and optimization in sensor networks.

IBM Corporation June 2005 - August 2005
Extreme Blue Intern

- Worked with the Intelligent Information Systems Research group on RFID traceability technologies.
- Participated in the development of the Theseus prototype.

KDBS Lab, NTUA September 2002 - May 2003
Undergraduate Student Researcher

- Developed a consistency checking application of spatial constraints.
- Worked on the design of a theoretical framework for supporting schema integration of hierarchical data.

GoOnline Program (3rd EU Support Framework) June 2002 - December 2002
Networking Consultant

- Worked as a networking consultant for small enterprises.
- Responsible for training support, aiming the acquaintance of Greek SMEs with the new technologies and e-business practices.

Intracom Corp. June 2000 - August 2000
Software Developer

- Developed applications using SDL and Delphi.

Teaching Experience

UC Berkeley 2007-2008
Guest Lecturer

- Gave several invited lectures for the course “Introduction to Database Systems” (CS186).

Graduate Student Instructor August 2003 - December 2003

- Taught weekly discussion sections for the course “Introduction to Database Systems” (CS186), held office hours and gave occasional lectures.
- Helped design homework assignments and graded exams.

Other Activities

- October 2008: Founding member and signatory of the Hellenic Student Association at Berkeley.
- June 2007-December 2007: Treasurer of the Latino Association of Graduate Students in Engineering and Science (LAGSES) in UC Berkeley.
- 2001-2003: Founding member and Vice President of the IEEE Student Branch of the National Technical University of Athens.
- 2001: Member of The Hrakleio Chess Club (participating in tournaments).