

EIRINAIOS MICHELAKIS

Curriculum Vitae

Dept. Address

EECS Department
University of California at Berkeley
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Work Experience

Research Assistant – Summer Intern 05/2008–08/2008

IBM Almaden Research Center, Almaden, CA.
Continuing research on enhancing IBM's Avatar Information Extraction System, with probabilistic reasoning capabilities, over the annotations produced from unstructured, textual datasets.

Research Assistant 01/2008–06/2008

IBM Almaden Research Center, Almaden, CA.
Studied the problem of incorporating probabilistic reasoning in the Avatar Information Extraction System.

Teaching Assistant 09/2007–12/2007

EECS Dept., UC Berkeley.
Leading discussion sections, holding office hours, and grading exams for an upper division course in Database Systems.

Research Assistant – Summer Intern 06/2007–08/2007

IBM Almaden Research Center, Almaden, CA.
Studied the problem of evaluating the correlations between the data of a Relational DBMS, to enhance its compressibility and query efficiency.

Teaching Assistant 01/2007–05/2007

EECS Dept., UC Berkeley.
Led discussion sections, holding office hours, and grading exams for an upper division course in Database Systems.

Research Assistant – Summer Intern 06/2006–08/2006

Intel Research, Berkeley, CA.
In the context of Intel's HEISENDATA project, performed research in formalizing and learning a hierarchical, first-order graphical model, that attempts to model correlations among the entities of a domain, in various levels of granularity. The result is an economic, compressed representation of the independence relationships of the data, which can be used for efficient inference, without sacrificing its fit to the training data.

Teaching Assistant 01/2006–05/2006

EECS Dept., UC Berkeley.
Led discussion sections, held office hours, and graded exams for an upper division course in Database Systems.

Research Assistant 06/2004–07/2005

Dept. of Informatics and Telecommunications, University of Athens, Greece.
Participated in the development of a content management system, which serves as the web site of the Information Access and Personalization cluster of the IST project DELOS (<http://delos.di.uoa.gr/>), and in the development of a query personalization component over a Peer-to-Peer Digital Library System, for the IST project BRICKS (<http://www.brickcommunity.org/>), under the supervision of Professor Yannis Ioannidis.

Research Assistant 09/2002–06/2004

National Center for Scientific Research “Demokritos”, Greece.
Performed research in the areas of Machine Learning and Information Filtering. Developed a Bayesian content-based filtering module for content filtering of obscene material on the Internet and of an autonomous, server-based, personalized anti-spam filter, based on Machine Learning Algorithms, under the supervision of Researcher George Paliouras.

Teaching Assistant 10/2002–06/2003

Dept. of Informatics and Telecommunications, University of Athens, Greece.
Graded exams and led laboratory sections for the undergraduate courses Logic Design and Computer Architecture and Digital Systems Design, under the supervision of Professor Antonis Paschalis.

Education **University of California at Berkeley** Berkeley, CA
PhD in Computer Science, 09/2005-present.
G.P.A. 4.0

University of Athens Athens, Greece
M.Sc. in Computer Science, Sep 2002 – Nov 2004.
G.P.A. 9.58 / 10.00
First among the graduates of the Dept. of Informatics and Telecommunications for the year 2003-2004.

University of Athens Athens, Greece
B.Sc. in Computer Science, Sep 1998 - Sep 2002.
G.P.A. 9.28 / 10.00
Second among the graduates of the Dept. of Informatics and Telecommunications for the year 2001-2002.

Publications Wang, D.Z., Michelakis, E., Garofalakis, M and Hellerstein, J.M.: BayesStore: Managing Large, Uncertain Data Repositories with Probabilistic Graphical Models. In *Proceedings of VLDB 2008, 34th International Conference on Very Large Data Bases*, Auckland, New Zealand, 24-30 August 2008.

Michelakis, E., Wang, D.Z., Garofalakis, M and Hellerstein, J.M.: Granularity Conscious Modeling for Probabilistic Databases. To appear in *Proceedings of the 1st Workshop on Data Mining of Uncertain Data*, in conjunction with ICDM 2007, Omaha, NE, USA, 28-31 October 2007.

Garofalakis, M., Brown, K.P., Franklin, M.J., Hellerstein, J.M., Wang, D.Z., Michelakis, E., Tancau, L., Wu, E., Jeffery, S.R., and Aipperspach, R.: Probabilistic Data Management for Pervasive Computing: The Data Furnace Project. In *IEEE Data Engineering Bulletin*, Vol. 29, No. 1, March 2006 (Special Issue on Probabilistic Data Management), pp. 57–63.

Michelakis, E., 2005: Active Classifier Learning from Positive and Unlabeled Examples. In *Selected B.Sc. / M.Sc. Theses Book 2004-2005*, Dept. of Informatics and Telecommunications, University of Athens.

Androutsopoulos, I., Paliouras, G. and Michelakis, E., 2004: Learning to Filter Unsolicited Commercial E-Mail. N.C.S.R. “Demokritos”, Technical Report, No. 2004/2, March 2004. ([pdf]).

Michelakis, E., Androutsopoulos, I., Paliouras, G., Sakkis, G., and Stamatopoulos, P., 2004: Filtron: A Learning-Based Anti-Spam Filter. In *Proceedings of the 1st Conference on Email and Anti-Spam (CEAS 2004)*, Mountain View, CA, USA, 30-31 July 2004. ([pdf]).

Michelakis, E., 2004: Automatic Filtering of Unsolicited Commercial E-Mail with Machine Learning Algorithms. In *Selected B.Sc. / M.Sc. Theses Book 2003-2004*, Dept. of Informatics and Telecommunications, University of Athens.

Research Interests

Database Management Systems, Probabilistic Databases, Query Optimization, Information Extraction, Information Integration, Information Filtering, Machine Learning, Learning with Uncertainty.

Awards and Honors

Departmental Fellowship 09/2005–05/2006
EECS Department, UC Berkeley.

Graduation Award 12/2004
Dept. of Informatics and Telecommunications, University of Athens.
For ranking first in the graduate program of the academic year 2003-2004. Delivery of the valedictorian speech at the graduation ceremony.

Accolade 03/2004
Dept. of Informatics and Telecommunications, University of Athens.
For ranking first in the graduate program of the academic year 2002-2003 (first year of studies).

Accolade 11/2003
Dept. of Informatics and Telecommunications, University of Athens.
For graduating second in rank during the academic year 2001-2002.

Postgraduate Scholarship 07/2003–11/2004
Institute of Informatics and Telecommunications, N.C.S.R. “Demokritos”.
After successful examination on the schol organized by the Institute.

Greek National Scholarships Foundation 1998–2003
For superior performance in the academic years 1998–2003.

Skills

- *Languages*: English (fluent), German (intermediate), Greek (native).

- *Programming Languages*: Java, TCL, C, C++, Prolog, Visual Basic, Delphi, Pascal, VHDL, MATLAB, R.
- *Web Design*: HTML, JavaScript, VBScript, CSS, ASP, PHP.
- *Database Management Systems*: ORACLE, MySQL, PostgreSQL.
- *Operating Systems*: Windows, UNIX and Linux.
- Elementary knowledge of COM+ and CORBA.
- Relational database design and efficient use of the SQL query language.
- Knowledge of the expert systems' shell CLIPS.