

Sofia Maria Nikolakaki

Data Management Lab (DBLAB)
Department of Computer Science
Boston University
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Education

- September 2015 – Present **MSc.**, *Computer Science*, Boston University, Boston, MA.
Advisor: Prof. Evimaria Terzi
- March 2014 – July 2015 **MSc.**, *Electronic & Computer Engineering*, Technical University of Crete, Chania, Greece.
Research Topic: Real-Time Stream Data Processing with FPGA-Based Supercomputer
Advisor: Prof. Apostolos Dollas
GPA: 10.0/10.0
- October 2008 – February 2014 **Diploma (5-year program)**, *Electronic & Computer Engineering*, Technical University of Crete, Chania, Greece.
Diploma Thesis: Algorithm Modeling for Hardware Implementation of a Blokus Duo Player
Advisor: Prof. Apostolos Dollas
GPA: 8.68/10.0 (top 2% of ECE 2008 class and **3rd** in graduation year 2013–2014)

Research Interests

- Data Mining & Machine Learning for Health Informatics and Recommender Systems
- Graph Mining for Urban Informatics

Academic & Research Experience

- July 2017 – August 2017 **Teaching Assistant**, in *Introduction to Computer Science*, Boston University.
- May 2017 – June 2017 **Teaching Assistant**, in *Data Mining*, Prof. Evimaria Terzi, Boston University.
- May 2016 – April 2017 **Research Assistant**, *Working on Graph Mining for Urban Informatics*, Boston University.
- January 2016 – May 2016 **Teaching Assistant**, in *Combinatoric Structures*, Prof. Olga Lepsky, Boston University.
- March 2014 – July 2015 **Research Assistant**, *A configurable real-time data processing infrastructure mastering autonomous quality adaptation (QualiMaster)*, project, supported by the European Commission's Seventh Framework Programm (FP7), Research oriented towards the efficient implementation of Machine Learning algorithms on an FPGA-based supercomputer.
- February 2015 – June 2015 **Teaching Assistant**, in *Advanced Logic Design*, Prof. Apostolos Dollas, Technical University of Crete.
- October 2014 – January 2015 **Teaching Assistant**, in *Digital Computers*, Prof. Dionisios Pnevmatikatos, Technical University of Crete.
- February 2014 – June 2014 **Teaching Assistant**, in *Advanced Logic Design*, Prof. Apostolos Dollas, Technical University of Crete.

Publications

S. M. Nikolakaki, C. Mavroforakis, A. Ene and E. Terzi *Finding prize-collecting subgraphs in activity networks*. [under submission]

S. M. Nikolakaki, K. Iordanou, P. Malakonakis and A. Dollas *Multi-FPGA Architectures for Streaming Computations of Information Transfer*. [under submission]

S. M. Nikolakaki, P. Malakonakis, E. Sotiriades and A. Dollas *Towards Accelerating the LIBSVM Software on the Reconfigurable Maxeler System*. HiStencils 2016, 3rd International Workshop on High-Performance Stencil Computations

Awards & Distinctions

June 2017 **Scholarship for Greek Students**, *Eleni Gatzoyiannis Foundation*.

August 2016 **Student Travel Award**, *ACM SIGKDD*.

May 2016 **Outstanding Academic Performance Scholarship**, *Gerondelis Foundation*, (5,000 USD).

September 2015 **Dean 's Fellowship**, *Boston University*.

November 2014 **Award of Academic Excellence**, *Limmat Stiftung*, Excellence Award, top 3 Electronic and Computer Engineering graduates, (6,000 EUR).

Graduate Coursework

Boston University

- Data Mining, Prof. Evimaria Terzi
- Graduate Computer Networks, Prof. Abraham Matta
- Formal Methods for High-Assurance Computing System Design and Analysis, Prof. Assaf Kfoury
- Tools & Techniques for Data Mining and Applications, Prof. George Kollios
- Statistical Analysis of Network Data, Prof. Eric Kolaczyk
- Graduate Algorithms, Prof. Steve Homer

Technical University of Crete

- Processing and Analyzing Big Data (audit), Prof. Minos Garofalakis
- Computational Geometry, Prof. Vasilis Samoladas
- Reconfigurable Computing Systems, Prof. Apostolos Dollas
- Machine Learning, Assoc. Prof. Michail G. Lagoudakis

Technical Skills

- **Programming/Scripting Languages:** Python, Java, C, VHDL, MySQL
- **Typesetting:** LATEX, Microsoft Office
- **Operating Systems:** Linux, Windows

Languages

- Greek: Mothertongue
- English: Certificate of Proficiency in English, University of Michigan, TOEFL
- French: Paris - Sorbonne B2

References

- **Evimaria Terzi:**

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Professor, Computer Science Department MCS 280
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e-mail: evimaria@bu.edu

- **Apostolos Dollas:**

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Professor, School of Electronic and Computer Engineering
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- **Minos Garofalakis:**

Diploma & M.Sc. Committee Member, Project Supervisor
Professor, School of Electronic and Computer Engineering
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