

Antonia Saravanou - Curriculum Vitæ

PERSONAL INFORMATION

Date of Birth February 2, 1990

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EDUCATIONAL BACKGROUND

- Nov. 2014 – Now **Ph.D. Student in Data Mining**, Dept. of Informatics and Telecommunications, University of Athens
Advisor: Prof. Dimitrios Gunopulos
- Nov. 2012 – Oct. 2014 **M.Sc. in Advanced Information Systems**, Dept. of Informatics and Telecommunications, University of Athens
G.P.A.: 8.73 / 10 Highest Distinction (Arista) (ranked 2nd of graduating class)
M.Sc. Thesis: *Data Mining on Social Media to Detect Events and Disasters*. Advisor: Prof. Dimitrios Gunopulos
- Oct. 2007 – Oct. 2012 **B.Sc. in Computer Science**, Dept. of Informatics and Telecommunications, University of Athens
Specialization: Computer Systems and Applications
G.P.A.: 8.00 / 10 (top 10% of graduating class)
B.Sc. Thesis: *Product Review Summarization*. Advisor: Prof. Dimitrios Gunopulos

PROFESSIONAL AND RESEARCH EXPERIENCE

- Summer 2017 **Software Engineer Intern** at Uber.
- Dec. 2015 – Now **Software Engineer and Research Assistant** in the VaVeL project funded by the E.U. We are working on combining heterogeneous data (sensors, video, social networks) from smart cities to recognize anomalies. My work is on a hybrid technique for anomaly detection, combining structure with content of a social network.
- June 2013 – Now **Member** of the scientific student committee of the task force Human-Computer Interaction and Knowledge Discovery/Data Mining HCI-KDD. Advised by Prof. Gunopulos and Prof. A. Holzinger
- Jan. 2013 – Sep. 2015 **Software Engineer and Research Assistant** in the INSIGHT project funded by the E.U. We combined heterogeneous data from a smart city in order to recognize traffic and emergencies. I worked on an affective-based technique that identifies and ranks spatial regions by how much they were impacted by an event, such as flooding. The technique was supplemented by a visual component, converting tweets to emotions via an ML approach and displaying them on a map.
- Software Engineer and Research Assistant** in the MDD project (Mining Mobility Data) co-funded by the E.U. and the Greek Government. I worked on data sampling techniques and outlier detection algorithms in streaming data collected by sensors.
- Management and Administration** of an svn server for INSIGHT and VaVeL projects.
- Oct. 2010 – Now **Research Assistant** of the Knowledge Discovery in Databases Laboratory (KDD lab UoA), advised by Prof. Dimitrios Gunopulos. I have designed and implemented various algorithms (in Java/Python) for text, graph and web mining, such as text summarization, sentiment analysis and event/trend detection on social media streams.

RESEARCH INTERESTS Data Mining, Machine Learning, Social Network Analysis, Anomaly Detection, Text/Graph Mining

PUBLICATIONS

- 2017 *Event Detection in Social Networks* SIAM SDM 2017 (Doctoral Forum)
A. Saravanou
- 2016 *Event Detection on Social Media Streams* Machine Learning Summer School
A. Saravanou
- 2015 *Twitter Floods when it Rains: A Case Study of the UK Floods in early 2014* Social Web for Disaster Management, WWW
A. Saravanou, G. Valkanas, D. Gunopulos, G. Andrienko
- Stürme und Hochwasser in Social Media* Crisis Prevention, magazine
S. Steenhoek, G. Adrienko, N. Adrienko, I. Katakis, **A. Saravanou**, G. Valkanas, D. Gunopulos, G. Fuchs, H. Stange
- Data Mining on Social Media to Detect Events and Disasters* Selected Theses of Master Students, UoA
A. Saravanou, D. Gunopulos
- 2014 *A Faceted Crawler for the Twitter Service* WISE
G. Valkanas, **A. Saravanou**, D. Gunopulos
- 2013 *Product Review Summarization* Selected Theses of Bachelor Students, UoA
A. Saravanou, D. Gunopulos

DISTINCTIONS / MISC

- Feb. 2017 Selected to participate and present at the SIAM SDM Doctoral Forum & SIAM SDM Student Travel Award
June 2016 ACM SIGKDD Student Travel Award
Feb. 2016 Selected to attend the Machine Learning Summer School MLSS in Cadiz, Spain
June 2011 Student Scholarship for the Hellenic Artificial Intelligence Summer School HAISS in Patra, Greece
Sept. 2011 – 2012 Online courses from Coursera: NLP, Machine Learning, Artificial Intelligence, Databases
2001 – 2007 Honors and Awards in High School, each year
2004 Passed in 2nd phase of the Hellenic Mathematical Society (ΘΑΛΗΣ) for the European Mathematical Olympiad
March 2005 Participated in AMUN as an ambassador, Athens Model United Nations, Deutshe Schule Athen
Nov. 2003 Participated in TMUN as a delegate, Thessaloniki Model United Nations, Anatolia College
External Reviewer CIKM 2015, WSDM 2014, HCI-KDD 2014, SIGMOD 2014, ASONAM 2013, COPEM 2013

CONFERENCES

- April 2017 Attended, volunteered and presented at the SIAM SDM 2017, Houston, TX, USA.
August 2016 Attended and presented at the ASONAM 2016, San Fransisco, CA, USA.
Attended and volunteered at the ACM SIGKDD 2016, San Fransisco, CA, USA.
May 2015 Attended the 24th World Wide Web Conference WWW 2015, Florence, Italy.
Oct. 2014 Attended the 15th on Web Information System Engineering WISE 2014, Thessaloniki, Greece.
July 2014 Attended the 12th Hellenic Data Management Symposium HDMS 2014, Athens, Greece.
June 2013 Attended and presented at SouthCHI 2013, Maribor, Slovenia.
Sep. 2011 Attended and volunteered at the ECML PKDD 2011, Athens, Greece.

SUMMER SCHOOLS

- May 2016 Attended the Machine Learning Summer School (MLSS 2016), May 11-21, Cadiz, Spain.
July 2011 Attended the Hellenic Artificial Intelligence Summer School (HAISS 2011), Patra, Greece.

TEACHING EXPERIENCE

- Fall 2016-17 Coursework & Grader for the graduate course “*Big Data Management*”, taught by Professor Dimitrios Gunopulos
Fall 2016-17, Coursework/Lab Instructor, Office hours & Grader for the undergraduate course “*Database Systems Implementation*”,
Spring 2013-14, taught by Professors Dimitrios Gunopulos and Yannis Ioannidis
Spring 2012-13 Teaching Assistant Leader for winter 2016-17
Fall 2015-16 Coursework/Lab Instructor, Office hours & Grader for the graduate course “*Big Data Analysis Techniques*”,
taught by Professor Dimitrios Gunopoulos
Spring 2015-16, Coursework Instructor, Office hours & Grader for the undergraduate course “*Design and Use of Database Systems*”,
2014-15 taught by Professors Dimitrios Gunopulos in 2015 and Yannis Ioannidis in 2014
Spring 16-17, 15-16, Coursework/Lab Instructor, Office hours & Grader for the undergraduate course “*Data Mining*”,
Fall 2013-14, 12-13 taught by Professor Dimitrios Gunopoulos
Fall 2014-15 Coursework, Office hours, Grader & Supervisor/Lecturer for the undergraduate course “*Software Development*”,
taught by Professor Yannis Ioannidis
Fall 2013-14, Coursework/Lab Instructor, Office hours & Grader for the undergraduate course “*Artificial Intelligence*”,
Fall 2012-13 taught by Professors Panagiotis Stamatopoulos in 2014 and Manolis Koubarakis in 2012
Spring 2012-13 Supervisor of an undergraduate student team for the course “*Software Engineering*”,
taught by Professor Yannis Smaragdakis
Fall 2011-12 Lab Instructor, Office hours & Grader for the undergraduate course “*Human-Computer Interaction*”,
taught by Professors Yannis Ioannidis and Maria Roussou

TECHNICAL SKILLS

- Programming Python, Java, C, C++, JavaME, Prolog Scripting Bourne/Bash shell
Web Technologies HTML, CSS, PHP, JSP, Javascript, Ajax Query Languages SQL (MySQL)
Other SciKit learn, pandas, gensim, matplotlib, WEKA, Matlab, Lucene, SVN, Git, STL, Nagios, L^AT_EX

LANGUAGES

- Greek Native
English Fluent (Certificate of Proficiency in English, University of Michigan, 2010)
French Intermediate (Diplôme d'études en langue française 1er Degré, DELF B1, 2006)

REFERENCES

Prof. Dimitrios Gunopulos, Dept. Of Informatics & Telecommunications, University of Athens, GR

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