

Dimitrios Kotzias

Curriculum Vitae

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🌐 <http://dkotzias.com>
🏠 Age: 25

Education

- 2014–present **Philosophy Doctorate in Computer Science**, *University of California Irvine*.
Machine Learning, Advised by [Professor Padhraic Smyth](#)
- 2013–2014 **Master of Science in Computer Science**, *University of Oxford*.
Concentration Machine Learning Distinction (Highest Possible)
thesis “[Multi-Instance Deep Learning](#)”, Advised by [Professor Nando De Freitas](#)
- 2007–2012 **Bachelor of Science in Accounting and Finance**, *The American College of Greece*.
Concentration Finance High Distinction
- 2007–2011 **Bachelor of Science in Computer Science**, *University of Athens*.
Concentration Theoretical Computer Science; Databases & Systems Highest Distinction (Arista)
thesis “[Online Burst and Event Detection](#)”, Advised by [Professor Dimitrios Gunopulos](#)

Publications

- 2015 **D. Kotzias**, M. Denil, N. De Freitas, P. Smyth
From Group to Instance Labels, Using Deep Features KDD
- 2014 **D. Kotzias**, M. Denil, P. Blunsom, N. De Freitas
Deep Multi-Instance Transfer Learning, Deep Learning Workshop NIPS
- 2014 **D. Kotzias**, T. Lappas, D. Gunopulos
Addressing the Sparsity of Location Information on Twitter. EDBT
- 2014 D. Kotsakos, T. Lappas, **D. Kotzias**, N. Kanhabua, D. Gunopulos, K. Norvag.
A Burstiness-aware Approach for Document Dating. SIGIR

Professional Experience

- June 2015–Sept 2015 **Data Science Intern in Bing Ads**, *Microsoft*, Worked on Whole Page Optimization, modeling session data for identifying customer intent and ad relevance. Created a new method for splitting queries into sessions, based on query semantic similarity.
- Aug 2012–Nov 2012 **Intern in the Information Retrieval Group**, *Atypon Systems Inc*, Worked on a machine learning project aimed at classifying scientific medical papers. The aim was to automatically assigns labels from the MeSH taxonomy to any medical document.
- Jan. 2010–Jun. 2013 **Debate and Forensics Coach**, *Moraitis School*, Coached pupils ages 13-18 for Debate. This involved teaching speech, argumentation, logical thinking, and rhetoric skills as well as creative skills. It also involved organising and hosting debating tournaments.

Research Experience

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| Jan 2013 –Sept. 2013 | Research Associate, Insight ICT Research Project, University of Athens. I was a researcher working on social network analysis, in an attempt to identify more Twitter users from a specific location; utilizing both the content of posts and information from social graph. |
| Sept. 2010–Jun. 2012 | Research Assistant, at the KDD-Lab, Prof. Dimitrios Gunopulos. We worked on Web and Text Mining towards the utilization of Burstyness information for text. Specifically we worked towards identifying bursts in word frequencies with an online algorithm, in order to date a text based on its burstyness information. |
| Oct. 2010 – June 2011 | Game Theory research Group Member , r4u, advised by Professor Elias Koutsoupas. We studied open problems in Mechanism Design, related to competitive auctions. Specifically, we were dealing with the “digital goods” auction where we worked towards finding a low-constant competitive online algorithm. |

Research Interests

Machine Learning, Data Mining, Deep Learning, Social Network Analysis, Multi-Instance Learning, Algorithmic Game Theory and Mechanism Design, Graph Theory
Corporate Finance, Derivatives, Financial Markets, Investment Theory, Technical Analysis

Significant Projects

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|-----------------------------|---|
| Software Development | Development of an indexed Relational Database Management System from scratch. |
| System Programming | Implementation of a multithreaded application, p2pFileShare, that acts like a bittorrent client, using C |
| Object Oriented Programming | Developed a complete Text Editor simulating emacs, using swing, in Java |
| Programming Languages | Design and Implementation of a datalog interpreter |
| Software Engineering | Member of a 15-person team to create a Versatile Online Comparison tool. Users can create categories, insert entities, rate and compare any object, using php |

Informatics skills

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| Programming Languages | Java, Python, C/C++, R, Matlab, shell scripting, Haskell, Prolog | OS | Mac OS X, Linux/Unix, Windows |
| Web Development | HTML, PHP, iWeb TM | Applications | Weka, Mallet (Data Mining Software), Lucene, OpenGL (Graphics), MPI (Parallel Programming), L ^A T _E X |

Languages

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| Greek | Native |
| English | Fluent |
| German | Conversational |

*CPE in 2006, TOEFL iBT 117/120
Zertifikat Deutsch 2005*

Interests

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|----------------------|---|
| Competitive Debating | I took part in many debating tournaments, earning distinctions in some of them. Tournaments include Leiden Open 2007, Prague Open 2008, Cambridge IV 2009, WUDC 2009, Vienna IV 2011, Paris Open 2012, Oxford IV 2013. Member of the Oxford Union |
| Other | Basketball, Wind Surfing, Wake-Boarding, Spear-fishing, Cinema |