

DIONYSIOS T. MANOUSAKAS

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EDUCATION

-PhD in Computer Science, Computer Laboratory, University of Cambridge,
Oct. 2016 - today. (Advisor : Prof. Cecilia Mascolo)
Dissertation: *Applications of Machine Learning in Mobility Modeling, Healthcare and Sensor Networks*
-MSc in Machine Learning, University College London, Distinction, *Nov. 2015.*
Modules: Programming & Mathematical Methods for Machine Learning, Supervised Learning, Probabilistic & Unsupervised Learning, Applied Machine Learning, Bioinformatics, Advanced Topics in Machine Learning, Information Retrieval and Data Mining, Affective Computing and Human-Robot Interaction
Dissertation: *Longitudinal Analysis of International Trade Data based on Network Theory and Machine Learning* (Dr. Michael T. Schaub, Prof. Shi Zhou)
-Diploma in Electrical & Computer Engineering, National Technical University of Athens (5-years degree), GPA: 8.66/10.0 - Top 8%, *Sept. 2014.*
Dissertation: *Decentralized Reconfigurable Multi-Robot Coordination from Local Connectivity and Collision Avoidance Specifications* (Prof. Kostas J. Kyriakopoulos)
-Agios Stefanos High School, *June 2007* (GPA: 19.9/20.0)

EMPLOYMENT

-Quantitative Analyst Intern at Smartodds, London, UK, *Apr. 2016 - Oct. 2016*
Statistical analysis and development of machine learning methodologies, probabilistic modeling, ensembling techniques and software for predictions and betting in football and tennis.
-Data Scientist at Mentat Innovations, Athens, Greece, *Sept. 2015 - Jan. 2016*
Development of machine learning algorithms and software for on-the-fly analysis of streaming data. Real data domains include cybersecurity, financial forecasting, energy demand forecasting, fraud detection, recommender systems, and network traffic monitoring.

RESEARCH INTERESTS

Machine Learning, Network Analysis & Complex Systems, Data Mining, Algorithms & Complexity, Operations Research, Control Theory, Optimal Control, Reinforcement Learning, Information Theory, Adaptive and Intelligent Systems, Stochastic Systems, Robotics

RESEARCH EXPERIENCE

11/2013 – 09/2014: Control Systems Lab, School of Mechanical Engineering, NTUA
Participation as undergraduate researcher in RECONFIG (Cognitive, Decentralized, Coordination of Heterogeneous Multi-Robot Systems via Reconfigurable Task Planning) FP7-ICT9 EU project

COMPUTER SKILLS

- Programming – Python, R, MATLAB, Mathematica, C, C++, Java, Julia, ML, Prolog, Hadoop, Apache Spark
- IT Literacy – \LaTeX , Linux, SQL, Excel

EXPERIENCE ON DATA PROBLEMS

-Participation in Kaggle challenges: Leaf Classification, Click-Through Rate Prediction, Driver Telematics Analysis, Sentiment Analysis on Movie Reviews, Bike Sharing Demand

-Projects on Machine Learning problems, including: Political Opinion Detection on Twitter, Automatic Recognition System for Bimodal Detection of Guarding/Stiffness used for Chronic Low Back Pain Rehabilitation, Prediction of Subcellular Location of Eukaryotic Proteins, Monte-Carlo Control and Temporal Difference Learning in Card Games, Anomaly Detection on Streaming Data, Models Stacking and Averaging for Predictions in Sports

-Coursework on state-of-the-art Machine Learning techniques, including: HMMs, Mixture Models, Latent Variable Models, Graphical Models, Gaussian Processes, Kernel Methods, Deep Neural Networks

HONORS & AWARDS

- 2016 **Dean's List for Outstanding Academic Performance 2014/15**, Faculty of Engineering, University College London
- 2007 **EFG-Eurobank Honorary Plaque 'The Great Moment for Education'** awarded by the President of Democracy for achieving the highest score in Greece's National Higher Education Entrance Examination amongst examinees in Attica (19,809/20,000)
- 2007 **Georgios K. Kontaxis Award** for ranking 4th in Qualifying Examination for the School of Electrical & Computer Engineering, National Technical University of Athens
- 2001- 2007 **6 Honorary Diplomas from the Greek Ministry of Education** for excellence in my studies during the years of secondary education

LINGUISTIC SKILLS

Greek (native), English (fluent - IELTS 8.0/9.0, TOEFL 104/120, ECPE), Spanish (conversant - DELE B2), German (basic - Mittelstufe/C1)

PUBLICATIONS

- Manousakas, D., Vrohidis, C., Bechlioulis, C.P. and Kyriakopoulos, K.J., *Decentralized Reconfigurable Multi-Robot Coordination from Local Connectivity and Collision Avoidance Specifications*, to be submitted
- Students of the course Parallel Processing Systems School of Electrical & Computer Engineering National Technical University of Athens, *Parallelizing the Floyd-Warshall Algorithm on Modern Multicore Platforms Lessons Learned*, 5th National Conference of Electrical and Computer Engineering Students, Xanthi, 2012

CONFERENCES ATTENDED

- 5th National Conference of Electrical and Computer Engineering Students, 2012, Xanthi
- 3rd National Conference of Electrical and Computer Engineering Students, 2010, Thessaloniki
- 2nd National Conference of Electrical and Computer Engineering Students, 2009, Athens

FURTHER EDUCATION

COURSERA Game Theory (with Distinction), Bionformatics Algorithms - Part I (with Distinction), Computational Investing - Part I, Machine Learning, Control of Mobile Robots (with Distinction), Computational Neuroscience, Unpredictable? Randomness, Chance and Free Will

edX Introduction to Probability - The Science of Uncertainty, Big Data and Social Physics

REFERENCES

Available upon request

MILITARY SERVICE

11/2012 - 08/2013 : Soldier and office assistant at the Hellenic Artillery

LEISURE

Cinema, Literature, Rowing, Hiking, Tango

INTERESTS

Treasurer of CU Darwin College Film Club, Member of CU Algorithmic Trading Society, UCLU Hiking & Walking Society, NTUA Dance Sector