## Dionysis T. Manousakas

Contact Information	FN06, William Gates Building, Computer Laboratory, University of Cambridge, 15 JJ Thomson Avenue, Cambridge CB3 0FD	Email: dm754@cam.ac.uk https://www.cl.cam.ac.uk/~dm754 https://uk.linkedin.com/in/dionmanousakas Phone: +44 (0)7587 753767	
Education	UNIVERSITY OF CAMBRIDGE, DARWIN COLLEGE 2016 – 2020 Doctor of Philosophy (Ph.D.), Department of Computer Science & Technology, Submitted in Oct. 2020		
	Thesis title: Data Summarizations for Scalable, in High Dimensions Advisor: Prof. Cecilia Mascolo	Robust and Privacy-Aware Learning	
	University College London	2014 - 2015	
	Master of Science (M.Sc.) in Machine Learning, Distinction Thesis title: Longitudinal Analysis of International Trade Data based on Network Theory and Machine Learning Supervisor: Dr. Michael T. Schaub (Imperial College London)		
	Supervisor. Dr. Michael 1. Senaus (Imperiar et	Shege London)	
	NATIONAL TECHNICAL UNIVERSITY OF ATHENS2007 - 2014Diploma in Electrical & Computer Engineering (M.Eng., five-year degree), GPA: 8.66/10Major in Control, Systems and Computer Science		
	Final year dissertation: Decentralized Reconfigurable Multi-Robot Coordination from Local		
	Connectivity and Collision Avoidance Specifications Supervisor: Prof. Kostas J. Kyriakopoulos		
	Agios Stefanos High School, Greece, June 2007 (GPA: 19.9/20.0, Valedictorian)		
Internships & Employment	MAX PLANCK INSTITUTE FOR SOFTWARE SYSTEMS, <b>Research Intern</b> Kaiserslautern & Saarbrücken, Germany, May 2018 - Aug. 2018 Research on privacy loss caused by information diffusion over networks, using multidimensional temporal point processes. Stipend awarded by MPI. Advisor: Dr. Manuel Gomez-Rodriguez		
	Nokia Bell Labs, <b>Research Intern</b>		
	Cambridge, UK, Aug. 2017 - Oct. 2017		
	Research project on probabilistic modeling of po the Internet of Things group. Patent submitted	ppulation's spatiotemporal activity, as member of	
	SMARTODDS, Quantitative Analyst Intern London, UK, Apr. 2016 - Oct. 2016		
	Statistical analysis and development of machine ensembling techniques and software for prediction	e learning methodologies, probabilistic modeling, ons and betting in football and tennis.	
	MENTAT INNOVATIONS, <b>Data Scientist</b> Athens, Greece, <i>Sept. 2015 - Jan. 2016</i> Development of machine learning algorithms and software for on-the-fly analysis of streaming data, with applications in cybersecurity, financial forecasting, and fraud detection.		
Research interests	Large-scale Machine Learning; Probabilistic Modeling and Bayesian Inference; Stochastic Opti- mization; Variational Methods; Differential Privacy; Information Geometry; Point Processes; Sub- modularity; Uncertainty Quantification; Dynamical Systems; Active Learning; AutoML; Bayesian		

Optimization; Trustworthy Inference and Robust Statistics; Data Valuation

• D. Manousakas, C. Mascolo.  $\beta$ -Cores: Robust Large-Scale Bayesian Data Summarization in PUBLICATIONS the Presence of Outliers, Proceedings of the 14th ACM International Conference on Web Search and Data Mining, 2021. • D. Manousakas, Z. Xu, C. Mascolo, T. Campbell. Bayesian Pseudocoresets, Advances in Neural Information Processing Systems, 2020. • S. Bhattacharya, D. Manousakas, A.G.C.P. Ramos, S.I. Venieris, N.D. Lane, C. Mascolo. Countering Acoustic Adversarial Attacks in Microphone-equipped Smart Home Devices, Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, 2020(4):1–24. • D. Manousakas, C. Mascolo, A.R. Beresford, D. Chan, N. Sharma. *Quantifying Privacy Loss* of Human Mobility Graph Topology, Proceedings on Privacy Enhancing Technologies, Volume 2018(3): 5-21.• 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, Greece, 2012. PROFESSIONAL TEACHING EXPERIENCE • Supevisor of Computer Science Tripos, Part II Project on Anonymized Data Linkability via Ap-ACTIVITIES proximate Graph Matching, Encho Mishinev (Robinson College), 2019-20 • Supevisor of Computer Science Tripos, Part II Project on Traffic Monitoring under Differential Privacy, Shubham Aggarwal (Churchill College), 2018-19 • Supevisor in Artificial Intelligence (Clare, Emmanuel, Selwyn, Wolfson and Jesus College), Computer Science Tripos, Part IB, Easter terms 2018 & 2019 • Supevisor in Machine Learning and Bayesian Inference (Peterhouse, St. John's, Christ's, Robinson, Queen's, Wolfson, Corpus Christi, Clare and King's College), Computer Science Tripos, Part II, Lent term 2018, Easter term 2019 • Supevisor in Machine Learning and Real-world Data (Gonville & Caius, Trinity Hall and Robinson College), Computer Science Tripos, Part IA, Lent term 2017 • Teaching Assistant in Social and Technological Network Data Analytics, Advanced Computer Science MPhil, Lent term 2017 CONFERENCES ATTENDED • 14th ACM International WSDM Conference (to attend), Virtual, March 2021 • 34th Conference on Neural Information Processing Systems, Virtual, December 2020 • 37th International Conference on Machine Learning, Virtual, July 2020 • 2nd UK Mobile, Wearable and Ubiquitous Systems Research Symposium, Department of Computer Science, Oxford, UK, September, 2019 • 1st UK Mobile, Wearable and Ubiquitous Systems Research Symposium, Computer Laboratory, Cambridge, UK, September, 2018 • 18th Symposium on Privacy Enhancing Technologies, Barcelona, Spain, July 2018 • Course on Complex Networks and 2nd Symposium on Spatially Embedded Networks, Oriol College, Oxford, UK, September 2017 • 10th ACM International Conference on Web Search and Data Mining, Cambridge, UK, February 2017• 3rd National Conference of Electrical and Computer Engineering Students, Thessaloniki, Greece, May 2010 • 2nd National Conference of Electrical and Computer Engineering Students, Athens, Greece, May 2009 Reviewer • Neural Information Processing Systems (NeurIPS) • ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) • International ACM Web Science Conference (WebSci) • ACM Transactions on Computing for Healthcare (Health) • Royal Society Open Science

Honors & Awards	<ul> <li>2018 Ford Foundation Travel Stipend, 18<sup>th</sup> Symposium on Privacy Enhancing Technologies, Barcelona, Spain</li> <li>2016 Three-year Stipend for Ph.D. Studies awarded by the Nokia Bell Labs</li> <li>2016 Dean's List for Outstanding Academic Performance 2014/15, Faculty of Engineering, University College London</li> <li>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).</li> <li>Ranked 2nd nationwide over 33,174 candidates majoring in Technology.</li> <li>Ranked in top-5 highest scores nationwide among ≈ 93,000 candidates over all specializations.</li> <li>2007 Georgios K. Kontaxis Award for ranking 4th in Qualifying Examination for the School of Electrical &amp; Computer Engineering, National Technical University of Athens</li> <li>2001-2007 6 Double Honorary Diplomas from the Greek Ministry of Education for excellence in my studies during the years of secondary education</li> </ul>	
Computer Skills	<ul> <li>Programming – Python (PyTorch, TensorFlow), R, Stan, MATLAB, Mathematica, C/C++, Java, Julia, ML, Prolog</li> <li>IT Literacy – LATEX, Linux, PGF/TikZ, git, SQL</li> </ul>	
Linguistic Skills	<b>Greek</b> (native), <b>English</b> (fluent - IELTS 8.0/9.0, TOEFL 104/120, ECPE), <b>German</b> (basic - Mittelstufe/C1, Goethe Institut), <b>Spanish</b> (conversant - DELE B2, Instituto Cervantes)	
References	Available upon request	
MILITARY SERVICE	11/2012 - $08/2013$ : Fulfilled mandatory 9 month service as soldier and office assistant at the Hellenic National Guard Artillery	
Leisure Interests	Cinema, Literature, Tango, Hiking, Kayaking President of CU Darwin College Film Club, Member of CU Algorithmic Trading Society	
Further Education	<b>COURSERA</b> Game Theory, Bionformatics Algorithms - Part I, Computational Investing - Part I, Machine Learning, Control of Mobile Robots, Computational Neuroscience, Unpredictable? Randomness, Chance and Free Will	
	$\mathbf{edX}$ Introduction to Probability - The Science of Uncertainty, Big Data and Social Physics	