Georgios Damaskinos

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RESEARCH INTERESTS	Machine learning, Privacy, Mobile computing, Distributed systems, Recommender system	s	
Education	Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland Doctor of Philosophy, Computer Science Thesis: "Private and Secure Distributed Learning" Distributed Computing Lab - Rachid Guerraoui	09/2015 - 09/	/2020
	National Technical University of Athens (NTUA), Athens, Greece Diploma in Electrical and Computer Engineering (5-year academic program, equivalent to M.Sc. degree) GPA: 9.46 / 10 (top 2%) Major: Computer Systems, Computer Software, Computer Networks Thesis: "Profiling and cost modeling of join algorithms for Big Data Analytics" Built a machine learning tool that automatically chooses the optimal engine (Spark, Hive, PostgreSQL) and configuration for the deployment of various join a Computing Systems Laboratory - Nectarios Koziris	10/2010 - 07/	/2015
Publications	 [1] "Differentially Private Stochastic Coordinate Descent" G. Damaskinos, C. Duenner, R. Guerraoui, N. Papandreou, T. Parnell AAAI 2021 and PPML @ NeurIPS 2020, paper, code, video 	12/	/2020
	[2] "FLeet: Online Federated Learning via Staleness Awareness and Performance Predicti G. Damaskinos, R. Guerraoui, A.M. Kermarrec, V. Nitu, R. Patra, F. Taiani Middleware 2020 (best paper award), paper, code, video	on" 12/	/2020
	 [3] "DELF: Safeguarding deletion correctness in Online Social Networks" K. Cohn-Gordon, G. Damaskinos, D. Neto, J. Cordova, B. Reitz, B. Strahs, D. Obenshain, P. Pearce, I. Papagiannis USENIX Security Symposium 2020, paper, video 	08/	/2020
	[4] "The Imitation Game: Algorithm Selection by Exploiting Black-Box Recommenders" G. Damaskinos, R. Guerraoui, E. Merrer, C. Neumann NETYS 2020 (International Conference on Networked Systems), paper, code, video	06/	/2020
	 [5] "AggregaThor: Byzantine Machine Learning via Robust Gradient Aggregation" G. Damaskinos, E.M. El Mhamdi, R. Guerraoui, A. Guirguis, S. Rouault MLSys 2019 (Conference on Machine Learning and Systems), paper, code, video 	05/	/2019
	[6] "Asynchronous Byzantine Machine Learning (the case of SGD)" G. Damaskinos, E.M. El Mhamdi, R. Guerraoui, R. Patra, M. Taziki	07/	/2018

 ${f ICML\ 2018}$ (International Conference on Machine Learning), paper, code

[7] "Capturing the Moment: Lightweight Similarity Computations"

G. Damaskinos, R. Guerraoui, R. Patra

ICDE 2017 (IEEE International Conference on Data Engineering), paper, code

EXPERIENCE

Facebook, London, United Kingdom

Software Engineer

10/2020 - Present

Software Engineering Intern

06/2019 - 08/2019

Worked on the DELF paper [3] by mainly focusing on the performance evaluation. Implemented optimizations as a result of the visibility that this evaluation provided.

Language: Hack, SQL, Python

IBM, Zurich, Switzerland

Research Intern

06/2018 - 09/2018

Formally derived and implemented a differentially private optimization algorithm for generalized linear models, as part of the core algorithmic component of SnapML. The work continued at EPFL and led to [1].

Language: Python

Technicolor, Rennes, France

Research Intern

06/2017 - 08/2017

Designed and implemented a method to boost the evaluation of a new recommendation service by exploiting the output of a supposedly well-established online recommender, acting as a black-box that the new service can query. Published patent PCT/EP19/052345. The work continued at EPFL and led to [4].

Language: Python

Athens Clue, Athens, Greece

Web Developer

12/2014

Designed and implemented a web application for an escape room.

Language: JavaScript, HTML, CSS

High School Students, Athens, Greece

Tutor

03/2012 - 06/2015

Provided complementary mathematics, physics, and programming lectures to 8 students who either needed additional help or wanted to go beyond their school curriculum and perfect their skills.

AWARDS

Best Paper Award, Middleware

12/2020

Best Teaching Assistant Award, EPFL

12/2019

Runner-up for Best Internship Award, Technicolor

11/2017

EDIC PhD Fellowship, EPFL

04/2015

Thomaideio Award for the top graduating students, NTUA

2015

2011

Papakyriakopoulos Award for excellence in Mathematics, NTUA

Professional Reviewer: ICML 2021 (expert reviewer), AAAI 2021, NIPS 2020 (top 10% reviewer),

SERVICE

ICML 2020 (top 33% reviewer), ICML 2019, MLSys 2019 (external)

Project mentor during PhD: 1 PhD semester, 1 MSc thesis, 5 MSc semester, 1 BSc semester, 1 intern

EPFL teaching assistant: Distributed algorithms CS-451 (2018, 2019),

Real-time systems CS-321 (2018, 2019), Analysis 1 MATH-101 (2016, 2017)

TECHNICAL

Programming: Python, Java, C, C++

SKILLS (MAIN) Frameworks/Tools: TensorFlow, Apache Spark, Android NDK, PyTorch

LANGUAGES

Greek: Native proficiency

English: Full professional proficiency (C2 - Michigan University ECPE)

German: Limited working proficiency (B1 - Goethe Zertifikat)

French: Elementary proficiency

05/2017