Georgios Damaskinos

EPFL IC LPD, INR 313 (Bâtiment INR), Station 14, CH-1015 Lausanne

 $\begin{tabular}{ll} Webpage: $\operatorname{gdamaskinos.com} \\ E\text{-}mail: $\operatorname{georgios.damaskinos@epfl.ch} \end{tabular}$

RESEARCH INTERESTS	Machine learning, Mobile computing, Distributed systems, Recommender systems		
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	10/2010 -	07/2015
	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 Computing Systems Laboratory - Nectarios Koziris	algorithms	5.
Publications	[1] "FLeet: Online Federated Learning via Staleness Awareness and Performance Predict G. Damaskinos, R. Guerraoui, A.M. Kermarrec, V. Nitu, R. Patra, F. Taiani Middleware 2020 (to appear), paper, code	tion"	12/2020
	 [2] "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
	 [3] "Differentially Private Stochastic Coordinate Descent" G. Damaskinos, C. Duenner, R. Guerraoui, N. Papandreou, T. Parnell PPML @ NeurIPS 2020, paper, code 		06/2020
	[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)"		07/2018

G. Damaskinos, E.M. El Mhamdi, R. Guerraoui, R. Patra, M. Taziki 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 [2] 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 [3].

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. Patent filed with number PCT/EP19/052345. The work continued at EPFL and led to [4].

Language: Python

Athens Clue, Athens, Greece

12/2014 Web Developer

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 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

Papakyriakopoulos Award for excellence in Mathematics, NTUA

2011

PROFESSIONAL Reviewer: AAAI 2020, NIPS 2020 (top 10% reviewer), ICML 2020 (top 33% reviewer), ICML 2019,

SERVICE

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