Georgios Damaskinos

 $\begin{tabular}{ll} London, United Kingdom \\ Webpage: ${\tt gdamaskinos.com}$ \\ $E\text{-}mail: ${\tt georgios.damaskinos@gmail.com}$ \end{tabular}$

	<i>B-man.</i> georgios.damaskinos@gman.com		
Interests	Machine learning, Privacy, Mobile computing, Distributed systems, Recommender system	ms	
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 - 09/202	20
	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"	10/2010 - 07/201	15
	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.	
Publications	[8] "Unsupervised Topic Segmentation of Meetings with BERT Embeddings" A. Solbiati, K. Heffernan, G. Damaskinos, S. Poddar, S. Modi, J. Cali ArXiv, paper, code	06/202	21
	 [7] "Differentially Private Stochastic Coordinate Descent" G. Damaskinos, C. Duenner, R. Guerraoui, N. Papandreou, T. Parnell AAAI 2021 and PPML @ NeurIPS 2020, paper, code, video 	12/202	20
	[6] "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 (best paper award), paper, code, video	ion" 12/202	30
	 [5] "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 	08/202	20
	[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	06/202	20
	[3] "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	05/201	19
	[2] "Asynchronous Byzantine Machine Learning (the case of SGD)" G. Damaskinos, E.M. El Mhamdi, R. Guerraoui, R. Patra, M. Taziki	07/201	18

ICML 2018 (International Conference on Machine Learning), paper, code

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

05/2017

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 06/2019 - 08/2019

Software Engineering Intern

Worked on the DELF paper [5] 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 [7].

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

12/2014 Web Developer

Designed and implemented a web application for an escape room.

Language: JavaScript, HTML, CSS

High School Students, Athens, Greece

03/2012 - 06/2015 Tutor

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 3rd best performance among graduates, NTUA

2015

Papakyriakopoulos Award for excellence in Mathematics, NTUA

2011

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

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, Hack, Java, C, C++

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

LANGUAGES Greek: Native proficiency

SERVICE

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

German: Limited working proficiency (B1 - Goethe Zertifikat)

French: Elementary proficiency